

# **MiG Calendar JavaBeans**

## **API**

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MiG InfoCom AB 2007

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**Package**  
**com.miginfo.com.beans**

## com.miginfocom.beans Class AbstractHeaderBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.AbstractHeaderBean
  
```

**All Implemented Interfaces:**  
Serializable

**Direct Known Subclasses:**  
[DateHeaderBean](#), [CategoryHeaderBean](#)

```

public abstract class AbstractHeaderBean
extends AbstractBean
  
```

Some basic functionality for header JavaBeans in the MiG Calendar component.

Method Summary	
java.awt.Paint	<a href="#">getBackgroundPaint()</a> Property: The background paint in the date area.
<a href="#">DateAreaBean</a>	<a href="#">getContainer()</a> Returns the container that this header is decorating.
int	<a href="#">getEdge()</a> Property: The edge (top, left, bottom, right) that this header should be placed at.
int	<a href="#">getExpandToCorner()</a> Property: What corner, if any, the header should expand into if (if it exist, or rather has any space).
boolean	<a href="#">isVisible()</a> Property: If this header should be visible or not.
void	<a href="#">revalidateRepaintContainer()</a> If there is a connected container, revalidate and repaint it
void	<a href="#">setBackgroundPaint(java.awt.Paint p)</a> Property: The background paint in the date area.
boolean	<a href="#">setDateAreaContainer(DateAreaBean container)</a> Sets the com.miginfocom.calendar.datearea.DateAreaContainer that this header should decorate.
void	<a href="#">setEdge(int edge)</a> Property: The edge (top, left, bottom, right) that this header should be placed at.
void	<a href="#">setExpandToCorner(int corner)</a> Property: What corner, if any, the header should expand into if (if it exist, or rather has any space).
void	<a href="#">setVisible(boolean b)</a> Property: If this header should be visible or not.

**Methods inherited from class** com.miginfocom.beans.AbstractBean

addPropertyChangeListener, addPropertyChangeListener, firePropertyChangeEvent, removePropertyChangeListener, setIgnorePropertyChangeEvents

**Methods inherited from class** java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Methods

### getContainer

```
public DateAreaBean getContainer()
```

Returns the container that this header is decorating.

**Returns:**

The container that this header is decorating. Can be null.

### revalidateRepaintContainer

```
public void revalidateRepaintContainer()
```

If there is a connected container, revalidate and repaint it

### setDateAreaContainer

```
public boolean setDateAreaContainer(DateAreaBean container)
```

Sets the com.miginfocom.calendar.datearea.DateAreaContainer that this header should decorate. This will be called by the controller that handles them both and the header will not work unless this property has been set.

**Parameters:**

container - The container that this header should decorate. null resets the header.

**Returns:**

If the container was changed. false if the same container was set again.

### getExpandToCorner

```
public int getExpandToCorner()
```

Property: What corner, if any, the header should expand into if (if it exist, or rather has any space). Values are:

1. CORNER\_EXPAND\_NONE - The header will not expand into any corner.
2. CORNER\_EXPAND\_BOTH - The header will expand into both adjacent corners.
3. CORNER\_EXPAND\_BOTTOM\_OR\_RIGHT - The header will expand into the bottom corner if this is a vertical (standing) header and to the right corner if it's a horizontal header.
4. CORNER\_EXPAND\_TOP\_OR\_LEFT - The header will expand into the top corner if this is a vertical (standing) header and to the left corner if it's a horizontal header.

**Returns:**

The current value. DateAreaContainer.CORNER\_EXPAND\_NONE is default.

---

## setExpandToCorner

```
public void setExpandToCorner(int corner)
```

Property: What corner, if any, the header should expand into if (if it exist, or rather has any space). Values are:

1. `CORNER_EXPAND_NONE` - The header will not expand into any corner.
2. `CORNER_EXPAND_BOTH` - The header will expand into both adjacent corners.
3. `CORNER_EXPAND_BOTTOM_OR_RIGHT` - The header will expand into the bottom corner if this is a vertical (standing) header and to the right corner if it's a horizontal header.
4. `CORNER_EXPAND_TOP_OR_LEFT` - The header will expand into the top corner if this is a vertical (standing) header and to the left corner if it's a horizontal header.

This method will recreate the header if the value changes.

### Parameters:

corner - The new value.

---

## getEdge

```
public int getEdge()
```

Property: The edge (top, left, bottom, right) that this header should be placed at.

1. `SwingConstants.TOP` - The header will be above the date area.
2. `SwingConstants.LEFT` - The header will be to the left of the date area.
3. `SwingConstants.BOTTOM` - The header will be to the right of the date area.
4. `SwingConstants.RIGHT` - The header will be below the date area.

### Returns:

The current value. `SwingConstants.TOP` is default.

---

## setEdge

```
public void setEdge(int edge)
```

Property: The edge (top, left, bottom, right) that this header should be placed at.

1. `SwingConstants.TOP` - The header will be above the date area.
2. `SwingConstants.LEFT` - The header will be to the left of the date area.
3. `SwingConstants.BOTTOM` - The header will be to the right of the date area.
4. `SwingConstants.RIGHT` - The header will be below the date area.

This method will recreate the header if the value changes.

### Parameters:

edge - The new edge.

---

## getBackgroundPaint

```
public java.awt.Paint getBackgroundPaint()
```

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Property: The background paint in the date area. Will override the normal background `Color` so that `Paint` objects can be used instead.

Note! This might be shown as the grid color. It really isn't but if the grid color is set to `null` and the cells have a background paint this background color will show through as the grid color. This is the way if some cells should span more than one cell.

**Returns:**

The current background paint. May be `null`.

---

## setBackgroundPaint

```
public void setBackgroundPaint(java.awt.Paint p)
```

Property: The background paint in the date area. Will override the normal background `Color` so that `Paint` objects can be used instead.

Note! This might be shown as the grid color. It really isn't but if the grid color is set to `null` and the cells have a background paint this background color will show through as the grid color. This is the way if some cells should span more than one cell.

**Parameters:**

`p` - The new background paint. May be `null`.

---

## isVisible

```
public boolean isVisible()
```

Property: If this header should be visible or not.

**Returns:**

If the header is currently visible.

---

## setVisible

```
public void setVisible(boolean b)
```

Property: If this header should be visible or not.

**Parameters:**

`b` - If the header should be visible.

---

## com.miginfocom.beans

# Class ActivityAShapeBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.ActivityAShapeBean
  
```

**All Implemented Interfaces:**  
Serializable

```

public class ActivityAShapeBean
extends AbstractBean
  
```

Encapsulates the default `com.miginfocom.ashape.shapes.RootAShape` that is a round rectangle with a title and a summary.

Uses the `RootAShape` gotten from calling `createDefault(int)` and configuring the properties of it.

## Constructor Summary

public	<a href="#">ActivityAShapeBean()</a>
--------	--------------------------------------

## Method Summary

void	<a href="#">addMouseListener</a> ( <code>MouseListener l</code> ) Adds a listener that listens to all mouse events on this shape and all sub shapes that has a hit area report set to true.
void	<a href="#">addMouseListener</a> ( <code>MouseListener l</code> , <code>boolean asWeakRef</code> ) Adds a listener that listens to all mouse events on this shape and all sub shapes that has a hit area report set to true.
void	<a href="#">addSubShape</a> ( <code>AShape shape</code> ) Adds a generic sub shape to the root shape.
int	<a href="#">getAntiAlias</a> () Property: The anti aliasing hint used when drawing the graphics for the shape.
java.awt.Paint	<a href="#">getBackground</a> () Property: The background paint for the shape.
double	<a href="#">getCornerRadius</a> () Property: The corner radius for the outline <code>com.miginfocom.util.gfx.RoundRectangle</code> .
boolean	<a href="#">getDraggable</a> () Property: If the activity should AShape should be draggable and thus send out <code>DefaultDateArea.AE_DRAG_PRESSED</code> when pressed.
java.awt.Cursor	<a href="#">getMouseOverCursor</a> () Property: The Cursor showed when the mouse is over the shape or null if none.

int	<a href="#">getMouseOverSummaryUnderline()</a> Property: How thick the underline should be for mouse overs of on the summary text. 0 will disable it.
java.awt.Paint	<a href="#">getOutlinePaint()</a> Property: The Paint used to draw the outline.
float	<a href="#">getOutlineStrokeWidth()</a> Property: The width of the outline around the shape.
String	<a href="#">getPaintContext()</a> Property: The context that the AShape that this bean represent will adhere to.
PlaceRect	<a href="#">getPlaceRect()</a> Property: How this shape will relate to the reference rectangle (bounds) given by the activity layout system.
int	<a href="#">getPrimaryDimension()</a> <b>Deprecated.</b> Shunted to <a href="#">getResizeHandles()</a>
int	<a href="#">getResizeHandles()</a> Property: The size the resize boxes should be placed. -1 if no resize boxes and thus there will be no way to resize the shape.
float	<a href="#">getShadowBlurRadius()</a> Property: The blur radius for the blur filter.
double	<a href="#">getShadowCornerRadius()</a> Property: The corner radius for the shadow com.miginfocom.util.gfx.RoundRectangle.
java.awt.Paint	<a href="#">getShadowPaint()</a> Property: The Paint used to draw the shadow.
boolean[]	<a href="#">getShadowPaintOptimization()</a> Property: The shadow is divided into a 3x3 grid.
PlaceRect	<a href="#">getShadowPlaceRect()</a> Property: How the shadow will be placed relative to the main shape.
int	<a href="#">getShadowSliceSize()</a> Property: How big (thick) the outer (border) slices for the shadow will be.
AtRefRangeNumber	<a href="#">getTextAlignX()</a> Property: Where within the place rect for the text to draw the text string.
AtRefRangeNumber	<a href="#">getTextAlignY()</a> Property: Where within the place rect for the text to draw the text string.
int	<a href="#">getTextAntiAlias()</a> Property: The anti aliasing hint used when drawing the text for the shape.
java.awt.Font	<a href="#">getTextFont()</a> Property: The font used to draw the main text in the shape.
java.awt.Paint	<a href="#">getTextForeground()</a> Property: The Paint used to draw the main text.

PlaceRect	<a href="#">getTextPlaceRect()</a> Property: How this shape's main text will relate to the reference rectangle (bounds) given by the activity layout system.
String	<a href="#">getTextTemplate()</a> Property: The template text for the main text.
AtRefRangeNumber	<a href="#">getTitleAlignX()</a> Property: Where within the place rect for the title to draw the title text.
AtRefRangeNumber	<a href="#">getTitleAlignY()</a> Property: Where within the place rect for the title to draw the title text.
java.awt.Font	<a href="#">getTitleFont()</a> Property: The font used to draw the title in the shape.
java.awt.Paint	<a href="#">getTitleForeground()</a> Property: The Paint used to draw the title.
PlaceRect	<a href="#">getTitlePlaceRect()</a> Property: How this shape's title will relate to the reference rectangle (bounds) given by the activity layout system.
String	<a href="#">getTitleTemplate()</a> Property: The template text that will show in the title of the shape.
void	<a href="#">removeMouseListener()</a> (MouseListener l) Removes the listener if it exists locally.
void	<a href="#">removeSubShape()</a> (AShape shape) Removes the sub shape.
void	<a href="#">setAntiAlias()</a> (int hint) Property: The anti aliasing hint used when drawing the graphics for the shape.
void	<a href="#">setBackground()</a> (java.awt.Paint paint) Property: The background paint for the shape.
void	<a href="#">setCornerRadius()</a> (double radius) Property: The corner radius for the outline com.miginfocom.util.gfx.RoundRectangle.
void	<a href="#">setDraggable()</a> (boolean b) Property: If the activity should AShape should be draggable and thus send out DefaultDateArea.AE_DRAG_PRESSED when pressed.
void	<a href="#">setMouseOverCursor()</a> (java.awt.Cursor c) Property: The Cursor showed when the mouse is over the shape or null if none.
void	<a href="#">setMouseOverSummaryUnderline()</a> (int width) Property: How thick the underline should be for mouse overs of on the summary text. 0 will disable it.
void	<a href="#">setOutlinePaint()</a> (java.awt.Paint paint) Property: The Paint used to draw the outline.
void	<a href="#">setOutlineStrokeWidth()</a> (float width) Property: The width of the outline around the shape.

void	<a href="#">setPaintContext</a> (String paintContext) Property: The context that the AShape that this bean represent will adhere to.
void	<a href="#">setPlaceRect</a> (PlaceRect placeRect) Property: How this shape will relate to the reference rectangle (bounds) given by the activity layout system.
void	<a href="#">setPrimaryDimension</a> (int dim) <b>Deprecated.</b> Shunted to <a href="#">(int)</a>
void	<a href="#">setResizeHandles</a> (int dim) Property: The size the resize boxes should be placed. -1 if no resize boxes and thus there will be no way to resize the shape.
void	<a href="#">setShadowBlurRadius</a> (float r) Property: The blur radius for the blur filter.
void	<a href="#">setShadowCornerRadius</a> (double radius) Property: The corner radius for the shadow com.miginfocom.util.gfx.RoundRectangle.
void	<a href="#">setShadowPaint</a> (java.awt.Paint p) Property: The Paint used to draw the shadow.
void	<a href="#">setShadowPaintOptimization</a> (boolean[] opt) Property: The shadow is divided into a 3x3 grid.
void	<a href="#">setShadowPlaceRect</a> (PlaceRect pr) Property: How the shadow will be placed relative to the main shape.
void	<a href="#">setShadowSliceSize</a> (int s) Property: How big the outer slices for the shadow will be.
void	<a href="#">setTextAlignX</a> (AtRefRangeNumber x) Property: Where within the place rect for the text to draw the text string.
void	<a href="#">setTextAlignY</a> (AtRefRangeNumber y) Property: Where within the place rect for the text to draw the text string.
void	<a href="#">setTextAntiAlias</a> (int hint) Property: The anti aliasing hint used when drawing the text for the shape.
void	<a href="#">setTextFont</a> (java.awt.Font font) Property: The font used to draw the main text in the shape.
void	<a href="#">setTextForeground</a> (java.awt.Paint paint) Property: The Paint used to draw the main text.
void	<a href="#">setTextPlaceRect</a> (PlaceRect placeRect) Property: How this shape's main text will relate to the reference rectangle (bounds) given by the activity layout system.
void	<a href="#">setTextTemplate</a> (String s) Property: The template text for the main text.
void	<a href="#">setTitleAlignX</a> (AtRefRangeNumber x) Property: Where within the place rect for the title to draw the title text.
void	<a href="#">setTitleAlignY</a> (AtRefRangeNumber y) Property: Where within the place rect for the title to draw the title text.

void	<a href="#">setTitleFont</a> (java.awt.Font font) Property: The font used to draw the title in the shape.
void	<a href="#">setTitleForeground</a> (java.awt.Paint paint) Property: The Paint used to draw the title.
void	<a href="#">setTitlePlaceRect</a> (PlaceRect placeRect) Property: How this shape's title will relate to the reference rectangle (bounds) given by the activity layout system.
void	<a href="#">setTitleTemplate</a> (String s) Property: The template text that will show in the title of the shape.

**Methods inherited from class** com.miginfocom.beans.AbstractBean

addPropertyChangeListener, addPropertyChangeListener, firePropertyChangeEvent, removePropertyChangeListener, setIgnorePropertyChangeEvents

**Methods inherited from class** java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### ActivityAShapeBean

```
public ActivityAShapeBean()
```

## Methods

### addSubShape

```
public void addSubShape(AShape shape)
```

Adds a generic sub shape to the root shape. It can for instance be used to add icons or other markers in some way that can not be expressed with the normal properties. It is like adding a sub component to a Swing container.

**Parameters:**

shape - The shape to be added.

### removeSubShape

```
public void removeSubShape(AShape shape)
```

Removes the sub shape.

**Parameters:**

shape - The shape to be removed.

### getResizeHandles

```
public int getResizeHandles()
```

---

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Property: The size the resize boxes should be placed. -1 if no resize boxes and thus there will be no way to resize the shape.

Can be `SwingConstants.VERTICAL` or `SwingConstants.HORIZONTAL` or -1.

**Returns:**

The current value. Default is `SwingConstants.VERTICAL`.

---

## setResizeHandles

```
public void setResizeHandles(int dim)
```

Property: The size the resize boxes should be placed. -1 if no resize boxes and thus there will be no way to resize the shape.

**Parameters:**

dim - The new value. One of `SwingConstants.VERTICAL` or `SwingConstants.HORIZONTAL` or -1.

---

## getPrimaryDimension

```
public int getPrimaryDimension()
```

**Deprecated.** Shunted to [getResizeHandles\(\)](#)

Shunted to [getResizeHandles\(\)](#)

---

## setPrimaryDimension

```
public void setPrimaryDimension(int dim)
```

**Deprecated.** Shunted to [\(int\)](#)

Shunted to [setResizeHandles\(int\)](#)

---

## getDraggable

```
public boolean getDraggable()
```

Property: If the activity should AShape should be draggable and thus send out `DefaultDateArea.AE_DRAG_PRESSED` when pressed.

**Returns:**

The current state.

---

## setDraggable

```
public void setDraggable(boolean b)
```

Property: If the activity should AShape should be draggable and thus send out `DefaultDateArea.AE_DRAG_PRESSED` when pressed.

**Parameters:**

b - true means draggable. If same as set nothing will be done.

---

## getMouseOverSummaryUnderline

```
public int getMouseOverSummaryUnderline()
```

Property: How thick the underline should be for mouse overs of on the summary text. 0 will disable it.

**Returns:**

The current width.

---

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**See Also:**[setMouseOverSummaryUnderline\(int\)](#)

---

## setMouseOverSummaryUnderline

```
public void setMouseOverSummaryUnderline(int width)
```

Property: How thick the underline should be for mouse overs of on the summary text. 0 will disable it.

**Parameters:**

width - The width in pixels.

**See Also:**[setMouseOverSummaryUnderline\(int\)](#)

---

## getPaintContext

```
public String getPaintContext()
```

Property: The context that the AShape that this bean represent will adhere to.

`com.miginfocom.calendar.activity.Activity` objects may have a `paintContext` set and contexts must match if the shape should be used to paint the activity.

For example there might be two types of activities, one with "bigShape" and one with "smallShape" as context. It is then possible to create two beans of this class, configure them differently, and set their respective paint context to either. This will paint some activities with one bean's and the others with the other bean's AShape.

**Returns:**

The current context. Default to null.

---

## setPaintContext

```
public void setPaintContext(String paintContext)
```

Property: The context that the AShape that this bean represent will adhere to.

`com.miginfocom.calendar.activity.Activity` objects may have a `paintContext` set and contexts must match if the shape should be used to paint the activity.

For example there might be two types of activities, one with "bigShape" and one with "smallShape" as context. It is then possible to create two beans of this class, configure them differently, and set their respective paint context to either. This will paint some activities with one bean's and the others with the other bean's AShape.

**Parameters:**

paintContext - The new context. May be null.

---

## getMouseOverCursor

```
public java.awt.Cursor getMouseOverCursor()
```

Property: The Cursor showed when the mouse is over the shape or null if none.

**Returns:**

The current Cursor. May be null.

**Since:**

6.0

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## setMouseOverCursor

```
public void setMouseOverCursor(java.awt.Cursor c)
```

Property: The Cursor showed when the mouse is over the shape or null if none.

**Parameters:**

c - The new Cursor. May be null in which case the Cursor is not changed.

**Since:**

6.0

---

## getShadowPaintOptimization

```
public boolean[] getShadowPaintOptimization()
```

Property: The shadow is divided into a 3x3 grid. Normally only the lower and right slices need to be drawn since the other slices will be fully covered (obscured) by the main shape. This greatly improves the performance. This must be turned of for certain shapes (and shadow offsets) and for instance if the main shape is translucent.

There are a few static arrays that can be used:

- OPT\_ALL - Paints all slices.
- OPT\_BORDER - Paints all but the middle slice.
- OPT\_BOTTOM\_LEFT - Paint bottom and left (five) slices.
- OPT\_BOTTOM\_RIGHT - Paint bottom and right (five) slices.
- OPT\_TOP\_LEFT - Paint top and left (five) slices.
- OPT\_TOP\_RIGHT - Paint top and right (five) slices.

**Returns:**

A nine element array with which slices are to be painted. The first element is upper left, the second upper middle and so on. null will paint all slices.

**See Also:**

[getShadowSliceSize\(\)](#)

---

## setShadowPaintOptimization

```
public void setShadowPaintOptimization(boolean[] opt)
```

Property: The shadow is divided into a 3x3 grid. Normally only the lower and right slices need to be drawn since the other slices will be fully covered (obscured) by the main shape. This greatly improves the performance. This must be turned of for certain shapes (and shadow offsets) and for instance if the main shape is translucent.

There are a few static arrays that can be used:

- OPT\_ALL - Paints all slices.
- OPT\_BORDER - Paints all but the middle slice.
- OPT\_BOTTOM\_LEFT - Paint bottom and left (five) slices.
- OPT\_BOTTOM\_RIGHT - Paint bottom and right (five) slices.
- OPT\_TOP\_LEFT - Paint top and left (five) slices.
- OPT\_TOP\_RIGHT - Paint top and right (five) slices.

**Parameters:**

opt - A nine element array with which slices are to be painted. The first element is upper left, the second upper middle and so on. null will paint all slices.

**See Also:**

(continued from last page)

[getShadowSliceSize\(\)](#)

---

## getShadowSliceSize

```
public int getShadowSliceSize()
```

Property: How big (thick) the outer (border) slices for the shadow will be. This is like the line thickness for `LineBorder`. The center slice (there 3x3) will be the remaining size.

**Returns:**

The current size.

**See Also:**

[setShadowPaintOptimization\(boolean\[\]\)](#)

---

## setShadowSliceSize

```
public void setShadowSliceSize(int s)
```

Property: How big the outer slices for the shadow will be. This is like the line thickness for `LineBorder`. The center slice (there 3x3) will be the remaining size.

**Parameters:**

s - The new size.

**See Also:**

[setShadowPaintOptimization\(boolean\[\]\)](#)

---

## getShadowPaint

```
public java.awt.Paint getShadowPaint()
```

Property: The `Paint` used to draw the shadow.

**Returns:**

The current `Paint`. May be null.

---

## setShadowPaint

```
public void setShadowPaint(java.awt.Paint p)
```

Property: The `Paint` used to draw the shadow.

**Parameters:**

p - The new `Paint`. May be null in which case no shadow will be painted.

---

## getShadowBlurRadius

```
public float getShadowBlurRadius()
```

Property: The blur radius for the blur filter. Greater means more smeared shadow but it takes longer to compute.

**Returns:**

The current `Paint`. May be null.

---

## setShadowBlurRadius

```
public void setShadowBlurRadius(float r)
```

---

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Property: The blur radius for the blur filter. Greater means more smeared shadow but it takes longer to compute.

**Parameters:**

r - The new blur radius. 5 is default.

---

## getShadowPlaceRect

```
public PlaceRect getShadowPlaceRect()
```

Property: How the shadow will be placed relative to the main shape. The `com.miginfocom.util.gfx.geometry.PlaceRect` is an interface that basically takes one `java.awt.Rectangle` and return another one. This makes it very flexible.

**Returns:**

The current place rect.

**See Also:**

`com.miginfocom.util.gfx.geometry.AbsRect`  
`com.miginfocom.util.gfx.geometry.AlignRect`  
`com.miginfocom.util.gfx.geometry.AspectRatioRect`

---

## setShadowPlaceRect

```
public void setShadowPlaceRect(PlaceRect pr)
```

Property: How the shadow will be placed relative to the main shape. The `com.miginfocom.util.gfx.geometry.PlaceRect` is an interface that basically takes one `java.awt.Rectangle` and return another one. This makes it very flexible.

E.g:

```
new AbsRect(new Insets(5, 5, 5, 5));
```

**Parameters:**

pr - The new place rect.

**See Also:**

`com.miginfocom.util.gfx.geometry.AbsRect`  
`com.miginfocom.util.gfx.geometry.AlignRect`  
`com.miginfocom.util.gfx.geometry.AspectRatioRect`

---

## getShadowCornerRadius

```
public double getShadowCornerRadius()
```

Property: The corner radius for the shadow `com.miginfocom.util.gfx.RoundRectangle`.

**Returns:**

The current radius.

**See Also:**

`setRoundRect(double, double, double, double, double, double)`

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## setShadowCornerRadius

```
public void setShadowCornerRadius(double radius)
```

Property: The corner radius for the shadow `com.miginfocom.util.gfx.RoundRectangle`.

### Parameters:

radius - The new radius.

### See Also:

`setRoundRect(double, double, double, double, double, double)`

---

## getTitleTemplate

```
public String getTitleTemplate()
```

Property: The template text that will show in the title of the shape. Since the title, or at least parts thereof, is different for every activity but there is only one bean one has to use a template text that will be expanded for every painted activity.

Normally a template will look something like this:

```
"$startTime$-$endTimeExcl$ $description$"
```

however it is better to write it in code something like this:

```
ActivityInteractor.TEMPL_START_TIME.getName() + "-" +  
ActivityInteractor.TEMPL_END_TIME_INCL.getName() + " " +  
ActivityInteractor.TEMPL_DESCRIPTION.getName();
```

since `ActivityInteractor` is where the special templates is located.

If a special template isn't found the text between the `Interactor.TEMPLATE_CHAR` (\$) chars will be converted to a property and fetched from the activity such that:

```
"$assignedTo$"
```

will be converted to:

```
activity.getProperty(PropertyKey.getKey("assignedTo"));
```

This means that any property of the activity can be expanded with this template system.

Default is: `"$startTime$ - $endTimeExcl$ ($timeZoneShort$)"`.

### Returns:

The current template string.

### See Also:

`com.miginfocom.calendar.activity.ActivityInteractor`  
(for instance)

---

## setTitleTemplate

```
public void setTitleTemplate(String s)
```

(continued from last page)

Property: The template text that will show in the title of the shape. Since the title, or at least parts thereof, is different for every activity but there is only one bean one has to use a template text that will be expanded for every painted activity.

Normally a template will look something like this:

```
"$startTime$-$endTimeExcl$ $description$"
```

however it is better to write it in code something like this:

```
ActivityInteractor.TEMPL_START_TIME.getName() + "-" +
ActivityInteractor.TEMPL_END_TIME_INCL.getName() + " " +
ActivityInteractor.TEMPL_DESCRIPTION.getName();
```

since `ActivityInteractor` is where the special templates is located.

If a special template isn't found the text between the `Interactor.TEMPLATE_CHAR` (\$) chars will be converted to a property and fetched from the activity such that:

```
"$assignedTo$"
```

will be converted to:

```
activity.getProperty(PropertyKey.getKey("assignedTo"));
```

This means that any property of the activity can be expanded with this template system.

Default is: "\$startTime\$ - \$endTimeExcl\$ (\$timeZoneShort\$)".

#### Parameters:

s - The new tempalte string.

#### See Also:

`com.miginfocom.calendar.activity.ActivityInteractor`  
(for instance)

## getTextTemplate

```
public String getTextTemplate()
```

Property: The template text for the main text. See [getTitleTemplate\(\)](#) for and explanation of the template system

Default is: "\$summary\$".

#### Returns:

The current template.

## setTextTemplate

```
public void setTextTemplate(String s)
```

Property: The template text for the main text. See [getTitleTemplate\(\)](#) for and explanation of the template system

Default is: "\$summary\$".

#### Parameters:

s - The new template.

## getAntiAlias

```
public int getAntiAlias()
```

Property: The anti aliasing hint used when drawing the graphics for the shape. For instance `AA_HINT_ON`.

#### Returns:

---

(continued from last page)

The current hint.

**See Also:**

`confAntiAliasingHint`

---

## **setAntiAlias**

```
public void setAntiAlias(int hint)
```

Property: The anti aliasing hint used when drawing the graphics for the shape. For instance `AA_HINT_ON`.

**Parameters:**

`hint` - The new hint.

**See Also:**

`confAntiAliasingHint`

---

## **getTextAntiAlias**

```
public int getTextAntiAlias()
```

Property: The anti aliasing hint used when drawing the text for the shape. For instance `AA_HINT_ON`.

**Returns:**

The current hint. May be null.

**See Also:**

`confAntiAliasingHint`

---

## **setTextAntiAlias**

```
public void setTextAntiAlias(int hint)
```

Property: The anti aliasing hint used when drawing the text for the shape. For instance `AA_HINT_ON`.

**Parameters:**

`hint` - The new hint.

**See Also:**

`confAntiAliasingHint`

---

## **getTitleForeground**

```
public java.awt.Paint getTitleForeground()
```

Property: The `Paint` used to draw the title.

**Returns:**

The current paint. May be null.

---

## **setTitleForeground**

```
public void setTitleForeground(java.awt.Paint paint)
```

Property: The `Paint` used to draw the title.

**Parameters:**

`paint` - The new paint. May be null in which case the title isn't drawn.

---

## getTextForeground

```
public java.awt.Paint getTextForeground()
```

Property: The `Paint` used to draw the main text.

**Returns:**

The current paint. May be null.

---

## setTextForeground

```
public void setTextForeground(java.awt.Paint paint)
```

Property: The `Paint` used to draw the main text.

**Parameters:**

`paint` - The new paint. May be null in which case the title isn't drawn.

---

## getOutlinePaint

```
public java.awt.Paint getOutlinePaint()
```

Property: The `Paint` used to draw the outline.

**Returns:**

The current paint. May be null.

---

## setOutlinePaint

```
public void setOutlinePaint(java.awt.Paint paint)
```

Property: The `Paint` used to draw the outline.

**Parameters:**

`paint` - The new paint. May be null in which case the outline isn't drawn.

---

## getPlaceRect

```
public PlaceRect getPlaceRect()
```

Property: How this shape will relate to the reference rectangle (bounds) given by the activity layout system. It can for instance be used to offset it or something else. Norhally though there will just be a 1:1 mapping which can be done with `FILL`.

**Returns:**

The current place rect. May be null.

---

## setPlaceRect

```
public void setPlaceRect(PlaceRect placeRect)
```

Property: How this shape will relate to the reference rectangle (bounds) given by the activity layout system. It can for instance be used to offset it or something else. Norhally though there will just be a 1:1 mapping which can be done with `FILL`.

**Parameters:**

`placeRect` - The new place rect. May be null, but the behaviour for that is undefined.

---

---

## getTextPlaceRect

```
public PlaceRect getTextPlaceRect()
```

Property: How this shape's main text will relate to the reference rectangle (bounds) given by the activity layout system.

Default is: `new AbsRect(new AtStart(2), new AtStart(1), new AtEnd(0), new AtStart(14), null, null, null)`.

**Returns:**

The current place rect. May be null.

---

## setTextPlaceRect

```
public void setTextPlaceRect(PlaceRect placeRect)
```

Property: How this shape's main text will relate to the reference rectangle (bounds) given by the activity layout system.

Default is: `new AbsRect(new AtStart(2), new AtStart(1), new AtEnd(0), new AtStart(14), null, null, null)`.

**Parameters:**

placeRect - The new place rect. May be null, but the behaviour for that is undefined.

---

## getTextAlignX

```
public AtRefRangeNumber getTextAlignX()
```

Property: Where within the place rect for the text to draw the text string.

**Returns:**

The alignment for the text. Might be null.

**See Also:**

[getTextPlaceRect\(\)](#)

---

## setTextAlignX

```
public void setTextAlignX(AtRefRangeNumber x)
```

Property: Where within the place rect for the text to draw the text string.

**Parameters:**

x - The new alignment for the text. Might be null.

**See Also:**

[getTextPlaceRect\(\)](#)

---

## getTextAlignY

```
public AtRefRangeNumber getTextAlignY()
```

Property: Where within the place rect for the text to draw the text string.

**Returns:**

The alignment for the text. Might be null.

**See Also:**

(continued from last page)

[getTextPlaceRect\(\)](#)

---

## setTextAlignY

```
public void setTextAlignY(AtRefRangeNumber y)
```

Property: Where within the place rect for the text to draw the text string.

**Parameters:**

y - The new alignment for the text. Might be null.

**See Also:**[getTextPlaceRect\(\)](#)

---

## getTitlePlaceRect

```
public PlaceRect getTitlePlaceRect()
```

Property: How this shape's title will relate to the reference rectangle (bounds) given by the activity layout system.

Default is: `new AbsRect(new AtStart(2), new AtStart(16), new AtEnd(0), new AtEnd(0), null, null, null)`.

**Returns:**

The current place rect. May be null.

---

## setTitlePlaceRect

```
public void setTitlePlaceRect(PlaceRect placeRect)
```

Property: How this shape's title will relate to the reference rectangle (bounds) given by the activity layout system.

Default is: `new AbsRect(new AtStart(2), new AtStart(16), new AtEnd(0), new AtEnd(0), null, null, null)`.

**Parameters:**

placeRect - The new place rect. May be null, but the behaviour for that is undefined.

---

## getTitleAlignX

```
public AtRefRangeNumber getTitleAlignX()
```

Property: Where within the place rect for the title to draw the title text.

**Returns:**

The alignment for the text. Might be null.

**See Also:**[getTitlePlaceRect\(\)](#)

---

## setTitleAlignX

```
public void setTitleAlignX(AtRefRangeNumber x)
```

Property: Where within the place rect for the title to draw the title text.

**Parameters:**

x - The new alignment for the text. Might be null.

---

(continued from last page)

**See Also:**

[setTitlePlaceRect\(PlaceRect\)](#)

---

**getTitleAlignY**

```
public AtRefRangeNumber getTitleAlignY()
```

Property: Where within the place rect for the title to draw the title text.

**Returns:**

The alignment for the text. Might be null.

**See Also:**

[getTitlePlaceRect\(\)](#)

---

**setTitleAlignY**

```
public void setTitleAlignY(AtRefRangeNumber y)
```

Property: Where within the place rect for the title to draw the title text.

**Parameters:**

y - The new alignment for the text. Might be null.

**See Also:**

[setTitlePlaceRect\(PlaceRect\)](#)

---

**getTitleFont**

```
public java.awt.Font getTitleFont()
```

Property: The font used to draw the title in the shape.

**Returns:**

The current font. May be null.

---

**setTitleFont**

```
public void setTitleFont(java.awt.Font font)
```

Property: The font used to draw the title in the shape.

**Parameters:**

font - The new font. May be null in which case the title will not be drawn.

---

**getTextFont**

```
public java.awt.Font getTextFont()
```

Property: The font used to draw the main text in the shape.

**Returns:**

The current font. May be null.

---

**setTextFont**

```
public void setTextFont(java.awt.Font font)
```

---

---

(continued from last page)

Property: The font used to draw the main text in the shape.

**Parameters:**

font - The new font. May be null in which case the title will not be drawn.

---

## getBackground

```
public java.awt.Paint getBackground()
```

Property: The background paint for the shape.

**Returns:**

The current background paint. may be null.

---

## setBackground

```
public void setBackground(java.awt.Paint paint)
```

Property: The background paint for the shape.

**Parameters:**

paint - The new background paint. May be null in which case it isn't painted.

---

## getOutlineStrokeWidth

```
public float getOutlineStrokeWidth()
```

Property: The width of the outline around the shape.

**Returns:**

The current width. Default is 1.

---

## setOutlineStrokeWidth

```
public void setOutlineStrokeWidth(float width)
```

Property: The width of the outline around the shape.

**Parameters:**

width - The new width.

---

## getCornerRadius

```
public double getCornerRadius()
```

Property: The corner radius for the outline `com.miginfocom.util.gfx.RoundRectangle`.

**Returns:**

The current radius.

**See Also:**

`setRoundRect(double, double, double, double, double, double)`

---

## setCornerRadius

```
public void setCornerRadius(double radius)
```

Property: The corner radius for the outline `com.miginfocom.util.gfx.RoundRectangle`.

---

(continued from last page)

**Parameters:**

radius - The new radius.

**See Also:**[setRoundRect\(double, double, double, double, double, double\)](#)

---

## addMouseListener

```
public void addMouseListener(MouseListener l)
```

Adds a listener that listens to all mouse events on this shape and all sub shapes that has a hit area report set to true.

Note that the listener will be installed on the default AShape which can be used for many date areas. To only handle events originating from a single date area you can do this:

```
if (event.getOriginalEvent().getComponent() == myDateAreaBean.getDateArea()) {  
    // Put code to handle the event here...  
}
```

**Parameters:**

l - The listener

**See Also:**[A\\_REPORT\\_HIT\\_AREA](#)[addMouseListener\(MouseInteractionListener, boolean\)](#)**Since:**

6.0

---

## addMouseListener

```
public void addMouseListener(MouseListener l,  
    boolean asWeakRef)
```

Adds a listener that listens to all mouse events on this shape and all sub shapes that has a hit area report set to true.

**Parameters:**

l - The listener

asWeakRef - If the listener should be added wrapped in a `java.lang.ref.WeakReference`. This defers memory leak problems since the garbage collector can collect the listener if it is only referenced from this list.

**Note!** This (weak reference) can not be used with listeners that doesn't have another real (a.k.a Strong) reference to it, as for instance an anonymous inner class. If one such listener is added it will be removed almost immediately by the garbage collector.

**See Also:**[A\\_REPORT\\_HIT\\_AREA](#)**Since:**

6.0

(continued from last page)

## **removeMouseListener**

```
public void removeMouseListener(MouseListener l)
```

Removes the listener if it exists locally.

**Parameters:**

1 - The listener.

**Since:**

6.0

## com.miginfocom.beans Class CategoryHeaderBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.AbstractHeaderBean
          |
          +- com.miginfocom.beans.CategoryHeaderBean
  
```

**All Implemented Interfaces:**  
Serializable

**Direct Known Subclasses:**  
[WestCategoryHeaderBean](#), [NorthCategoryHeaderBean](#)

---

```

public abstract class CategoryHeaderBean
extends AbstractHeaderBean
  
```

A header object that wraps (aggregates) a real `com.miginfocom.calendar.header.Header` implementation.

This bean is for simplifying the usage of a header and to make the header a visual `JavaBean`.

Note! The category header will end up on the si

### Constructor Summary

public	<a href="#">CategoryHeaderBean()</a>
--------	--------------------------------------

### Method Summary

void	<a href="#">addInteractionListener</a> ( <code>InteractionListener l</code> ) Adds a listener that listens to <code>InteractionEvents</code> .
void	<a href="#">addInteractionListener</a> ( <code>InteractionListener l</code> , <code>boolean asWeakRef</code> ) Adds a listener that listens to <code>InteractionEvents</code> .
int	<a href="#">getCategoryDepth</a> ()
<code>javax.swing.border.Border</code>	<a href="#">getCellBorder</a> () Property: The <code>javax.swing.border.Border</code> used to draw around the cells in the header.
<code>java.awt.Cursor</code>	<a href="#">getCellCursor</a> () Property: The <code>java.awt.Cursor</code> that the mouse pointer should change to when over a cell (and not label).
Integer	<a href="#">getForcedHeaderSize</a> () Property: The size (height if top/bottom and width if left/right) of the header.
Header	<a href="#">getHeader</a> ()
<code>DefaultSubRowLevel[]</code>	<a href="#">getHeaderLevels</a> () Property: The specification for the levels that correspond to the category level.

java.awt.Cursor	<a href="#">getKnobCursor()</a> Property: The java.awt.Cursor that the mouse pointer should change to when over +- knob.
XtdImage	<a href="#">getKnobExpandedImage()</a> Property: A com.miginfocom.util.gfx.XtdImage (which is a very flexible Image/Icon) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows.
XtdImage	<a href="#">getKnobFoldedImage()</a> Property: A com.miginfocom.util.gfx.XtdImage (which is a very flexible Image/Icon) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows.
boolean	<a href="#">getKnobFoldOnPress()</a> Property: If the corresponding sub row should be folded when the user press the knob image in the category header.
AtRefRangeNumber	<a href="#">getKnobImageAlignX()</a> Property: How the knob image should be aligned horizontally.
AtRefRangeNumber	<a href="#">getKnobImageAlignY()</a> Property: How the knob image should be aligned vertically.
java.awt.Cursor	<a href="#">getLabelCursor()</a> Property: The java.awt.Cursor that the mouse pointer should change to when over a category label.
boolean	<a href="#">getLabelFoldOnPress()</a> Property: If the corresponding sub row should be folded when the user press the label in the category header.
boolean	<a href="#">getNoExpandedFolderGridLine()</a> <b>Deprecated.</b> Use DateAreaBean#getNoExpandedFolderGridLine instead.
XtdImage	<a href="#">getRowFolderImage()</a> Property: A com.miginfocom.util.gfx.XtdImage (which is a very flexible Image/Icon) that should represent a folder and are shown for sub rows that aren't leaves.
AtRefRangeNumber	<a href="#">getRowImageAlignX()</a> Property: How the row image should be aligned horizontally.
AtRefRangeNumber	<a href="#">getRowImageAlignY()</a> Property: How the row image should be aligned vertically.
XtdImage	<a href="#">getRowLeafImage()</a> Property: A com.miginfocom.util.gfx.XtdImage (which is a very flexible Image/Icon) that should represent a folder and are shown for sub rows that <b>doesn't</b> have sub rows.
int	<a href="#">getTextAntiAlias()</a> Property: The anti aliasing hint used when drawing the text for the shape.
void	<a href="#">interactionOccured(InteractionEvent e)</a>
boolean	<a href="#">isFolderOverlapChildren()</a> Property: If the folder category rows, which contains other rows, should get it's secondary dimension's (along the header) size stretched over all its sub rows bounds.
void	<a href="#">removeInteractionListener(InteractionListener l)</a> Removes the listener.

void	<a href="#">setCellBorder</a> ( <code>javax.swing.border.Border border</code> ) Property: The <code>javax.swing.border.Border</code> used to draw around the cells in the header.
void	<a href="#">setCellCursor</a> ( <code>java.awt.Cursor cur</code> ) Property: The <code>java.awt.Cursor</code> that the mouse pointer should change to when over a cell (and not label).
boolean	<a href="#">setDateAreaContainer</a> ( <a href="#">DateAreaBean</a> container)
void	<a href="#">setFolderOverlapChildren</a> ( <code>boolean b</code> ) Property: If the folder category rows, which contains other rows, should get it's secondary dimension's (along the header) size stretched over all its sub rows bounds.
void	<a href="#">setForcedHeaderSize</a> ( <code>Integer size</code> ) Property: The size (height if top/bottom and width if left/right) of the header.
void	<a href="#">setHeaderLevels</a> ( <code>DefaultSubRowLevel[] rows</code> ) Property: The specification for the levels that correspond to the category level.
void	<a href="#">setKnobCursor</a> ( <code>java.awt.Cursor cur</code> ) Property: The <code>java.awt.Cursor</code> that the mouse pointer should change to when over +- knob.
void	<a href="#">setKnobExpandedImage</a> ( <code>XtdImage image</code> ) Property: A <code>com.miginfocom.util.gfx.XtdImage</code> (which is a very flexible <code>Image/Icon</code> ) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows.
void	<a href="#">setKnobFoldedImage</a> ( <code>XtdImage image</code> ) Property: A <code>com.miginfocom.util.gfx.XtdImage</code> (which is a very flexible <code>Image/Icon</code> ) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows.
void	<a href="#">setKnobFoldOnPress</a> ( <code>boolean b</code> ) Property: If the corresponding sub row should be folded when the user press the knob image in the category header.
void	<a href="#">setKnobImageAlignX</a> ( <code>AtRefRangeNumber align</code> ) Property: How the knob image should be aligned horizontally.
void	<a href="#">setKnobImageAlignY</a> ( <code>AtRefRangeNumber align</code> ) Property: How the knob image should be aligned vertically.
void	<a href="#">setLabelCursor</a> ( <code>java.awt.Cursor cur</code> ) Property: The <code>java.awt.Cursor</code> that the mouse pointer should change to when over a category label.
void	<a href="#">setLabelFoldOnPress</a> ( <code>boolean b</code> ) Property: If the corresponding sub row should be folded when the user press the label in the category header.
void	<a href="#">setNoExpandedFolderGridLine</a> ( <code>boolean b</code> ) <b>Deprecated.</b> Use <code>DateAreaBean#setNoExpandedFolderGridLine</code> instead.
void	<a href="#">setRowFolderImage</a> ( <code>XtdImage image</code> ) Property: A <code>com.miginfocom.util.gfx.XtdImage</code> (which is a very flexible <code>Image/Icon</code> ) that should represent a folder and are shown for sub rows that aren't leaves.
void	<a href="#">setRowImageAlignX</a> ( <code>AtRefRangeNumber align</code> ) Property: How the row image should be aligned horizontally.

void	<a href="#">setRowImageAlignY</a> (AtRefRangeNumber align) Property: How the row image should be aligned vertically.
void	<a href="#">setRowLeafImage</a> (XtdImage image) Property: A com.miginfocom.util.gfx.XtdImage (which is a very flexible Image/Icon) that should represent a folder and are shown for sub rows that <b>doesn't</b> have sub rows.
void	<a href="#">setTextAntiAlias</a> (int hint) Property: The anti aliasing hint used when drawing the text for the shape.

#### Methods inherited from class [com.miginfocom.beans.AbstractHeaderBean](#)

[getBackgroundPaint](#), [getContainer](#), [getEdge](#), [getExpandToCorner](#), [isVisible](#), [revalidateRepaintContainer](#), [setBackgroundPaint](#), [setDateAreaContainer](#), [setEdge](#), [setExpandToCorner](#), [setVisible](#)

#### Methods inherited from class com.miginfocom.beans.AbstractBean

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [firePropertyChangeEvent](#), [removePropertyChangeListener](#), [setIgnorePropertyChangeEvents](#)

#### Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Constructors

### CategoryHeaderBean

```
public CategoryHeaderBean()
```

## Methods

### setDateAreaContainer

```
public boolean setDateAreaContainer(DateAreaBean container)
```

Sets the com.miginfocom.calendar.datearea.DateAreaContainer that this header should decorate. This will be called by the controller that handles them both and the header will not work unless this property has been set.

### getHeader

```
public Header getHeader()
```

### getCategoryDepth

```
public int getCategoryDepth()
```

(continued from last page)

---

## interactionOccured

```
public void interactionOccured(InteractionEvent e)
```

---

## getNoExpandedFolderGridLine

```
public boolean getNoExpandedFolderGridLine()
```

**Deprecated.** Use `DateAreaBean#getNoExpandedFolderGridLine` instead.

Property: If the grid lines around a folded (collapsed) folder sub row should be merged to one. This is to avoid the double grid lines that would be visible around rows with size 0 otherwise. It is purely a visual setting and won't affect any data or functionality.

**Returns:**

Always false.

---

## setNoExpandedFolderGridLine

```
public void setNoExpandedFolderGridLine(boolean b)
```

**Deprecated.** Use `DateAreaBean#setNoExpandedFolderGridLine` instead.

Deprecated because of duplication.

---

## getLabelFoldOnPress

```
public boolean getLabelFoldOnPress()
```

Property: If the corresponding sub row should be folded when the user press the label in the category header. This is done by catching the `com.miginfocom.ashape.interaction.InteractionEvent` and fold the corresponding row. This can also be done manually, to get more control, by adding a listener with [addInteractionListener\(InteractionListener\)](#) and there perform code like:

```
Object interacted = e.getInteractor().getInteracted();
if (interacted instanceof GridRow) {
    GridRow row = (GridRow) interacted;
    row.setFolded(!row.isFolded());

    revalidateRepaintContainer();
}
```

**Returns:**

The current value.

**See Also:**

[getKnobFoldOnPress\(\)](#)

---

(continued from last page)

## setLabelFoldOnPress

```
public void setLabelFoldOnPress(boolean b)
```

Property: If the corresponding sub row should be folded when the user press the label in the category header. This is done by catching the `com.miginfocom.ashape.interaction.InteractionEvent` and fold the corresponding row. This can also be done manually, to get more control, by adding a listener with [addInteractionListener\(InteractionListener\)](#) and there perform code like:

```
Object interacted = e.getInteractor().getInteracted();
if (interacted instanceof GridRow) {
    GridRow row = (GridRow) interacted;
    row.setFolded(!row.isFolded());

    revalidateRepaintContainer();
}
```

### Parameters:

b - The new value.

### See Also:

[setKnobFoldOnPress\(boolean\)](#)

---

## getLabelCursor

```
public java.awt.Cursor getLabelCursor()
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over a category label.

### Returns:

The current `Cursor`. May be `null` which means no change.

---

## setLabelCursor

```
public void setLabelCursor(java.awt.Cursor cur)
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over a category label.

### Parameters:

cur - The new `Cursor`. May be `null` which means no change.

---

## getCellCursor

```
public java.awt.Cursor getCellCursor()
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over a cell (and not label).

### Returns:

The current `Cursor`. May be `null` which means no change.

---

## setCellCursor

```
public void setCellCursor(java.awt.Cursor cur)
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over a cell (and not label).

**Parameters:**

`cur` - The new `Cursor`. May be `null` which means no change.

---

## getKnobFoldOnPress

```
public boolean getKnobFoldOnPress()
```

Property: If the corresponding sub row should be folded when the user press the knob image in the category header. This is done by catching the `com.miginfocom.ashape.interaction.InteractionEvent` and fold the corresponding row.

This can also be done manually, to get more control, by adding a listener with [addInteractionListener\(InteractionListener\)](#) and there perform code like:

```
Object interacted = e.getInteractor().getInteracted();
if (interacted instanceof GridRow) {
    GridRow row = (GridRow) interacted;
    row.setFolded(!row.isFolded());

    revalidateRepaintContainer();
}
```

**Returns:**

The current value.

**See Also:**

[getLabelFoldOnPress\(\)](#)

---

## setKnobFoldOnPress

```
public void setKnobFoldOnPress(boolean b)
```

(continued from last page)

Property: If the corresponding sub row should be folded when the user press the knob image in the category header. This is done by catching the `com.miginfocom.ashape.interaction.InteractionEvent` and fold the corresponding row. This can also be done manually, to get more control, by adding a listener with [addInteractionListener\(InteractionListener\)](#) and there perform code like:

```
Object interacted = e.getInteractor().getInteracted();
if (interacted instanceof GridRow) {
    GridRow row = (GridRow) interacted;
    row.setFolded(!row.isFolded());

    revalidateRepaintContainer();
}
```

**Parameters:**

b - The new value.

**See Also:**

[setLabelFoldOnPress\(boolean\)](#)

---

## getKnobCursor

```
public java.awt.Cursor getKnobCursor()
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over +- knob.

**Returns:**

The current `Cursor`. May be `null` which means no change.

---

## setKnobCursor

```
public void setKnobCursor(java.awt.Cursor cur)
```

Property: The `java.awt.Cursor` that the mouse pointer should change to when over +- knob.

**Parameters:**

cur - The new `Cursor`. May be `null` which means no change.

---

## getRowFolderImage

```
public XtdImage getRowFolderImage()
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should represent a folder and are shown for sub rows that aren't leaves.

**Returns:**

The current image or `null` if no image should be shown/used.

---

## setRowFolderImage

```
public void setRowFolderImage(XtdImage image)
```

---

(continued from last page)

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should represent a folder and are shown for sub rows that aren't leaves.

**Parameters:**

`image` - The new image or null if no image should be shown/used.

---

## getRowLeafImage

```
public XtdImage getRowLeafImage()
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should represent a folder and are shown for sub rows that **doesn't** have sub rows.

**Returns:**

The current image or null if no image should be shown/used.

---

## setRowLeafImage

```
public void setRowLeafImage(XtdImage image)
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should represent a folder and are shown for sub rows that **doesn't** have sub rows.

**Parameters:**

`image` - The new image or null if no image should be shown/used.

---

## getForcedHeaderSize

```
public Integer getForcedHeaderSize()
```

Property: The size (height if top/bottom and width if left/right) of the header. Normally this value is calculated from the setted `HeaderLevels` (see `setHeaderLevels(com.miginfocom.calendar.header.DefaultSubRowLevel[])`) but sometimes a specific size is needed or is simpler to set.

Depending on the setted `HeaderLevels` those will span this size, but they don't have to.

**Returns:**

The current size or null which means that the header should use the `HeaderLevels` to caclulate the preferred size.

---

## setForcedHeaderSize

```
public void setForcedHeaderSize(Integer size)
```

Property: The size (height if top/bottom and width if left/right) of the header. Normally this value is calculated from the setted `HeaderLevels` (see `setHeaderLevels(com.miginfocom.calendar.header.DefaultSubRowLevel[])`) but sometimes a specific size is needed or is simpler to set.

Depending on the setted `HeaderLevels` those will span this size, but they don't have to.

**Parameters:**

`size` - The new size or null which means that the header should use the `HeaderLevels` to caclulate the preferred size.

---

## getHeaderLevels

```
public DefaultSubRowLevel[] getHeaderLevels()
```

---

(continued from last page)

**Property:** The specification for the levels that correspond to the category level. The main row, which doesn't represent a category but actually the collection of subrows that represents the categories, is level 0. The root category is level 1 and it's direct children level 2 and so on.

This means that a level will get the same attributes normally. It may be background, foreground, color and such things and is outlined in the `com.miginfocom.calendar.header.DefaultSubRowLevel` instances in the array. This also includes mouse over and mouse pressed effects.

**Returns:**

The current row specs. Never null.

**See Also:**

`setHeaderLevels(com.miginfocom.calendar.header.DefaultSubRowLevel[])`

---

## **setHeaderLevels**

```
public void setHeaderLevels(DefaultSubRowLevel[] rows)
```

(continued from last page)

Property: The specification for the levels that correspond to the category level. The main row, which doesn't represent a category but actually the collection of subrows that represents the categories, is level 0. The root category is level 1 and it's direct children level 2 and so on.

Example 1:

```
Level 0 (main row)
  Personnel (Level 1)
    Chris (Level 2)
    Susan (Level 2)
  Aircraft (Level 1)
    SE001 (Level 2)
    SE002 (Level 2)
    SE002 (Level 2)
```

```
<pre>
```

Example 2:

```
<pre>
```

```

_____ | _____ Other, top header...
|   |   |   |   |
| P | L | Work |   |
| e | i |   |   |
| r | s | ===== |
| s | a | Home |   |
| o |   |   |   |
| n | === | ===== | The date area
| n |   |   |   |
| e | M | Work |   |
| l | a | ===== |
|   | r |   |   |
|   | k | Home |   |
_____ | _____
```

When the columns is level 1, 2 and 3. The whole row is level 0.

This means that a level will get the same attributes normally. It may be background, foreground, color and such things and is outlined in the `com.miginfocom.calendar.header.DefaultSubRowLevel` instances in the array. This also includes mouse over and mouse pressed effects.

#### Parameters:

`rows` - The new rows. `null` is same as empty array.

## isFolderOverlapChildren

```
public boolean isFolderOverlapChildren()
```

Property: If the folder category rows, which contains other rows, should get it's secondary dimension's (along the header) size stretched over all its sub rows bounds. Example 2 in [setHeaderLevels\(DefaultSubRowLevel\[\]\)](#) shows how this might look. Note that this is only in the secondary dimension.

#### Returns:

(continued from last page)

The folder rows' size should include its childrens bounds in the secondary dimension.

---

## setFolderOverlapChildren

```
public void setFolderOverlapChildren(boolean b)
```

Property: If the folder category rows, which contains other rows, should get it's secondary dimension's (along the header) size stretched over all its sub rows bounds. Example 2 in [setHeaderLevels\(DefaultSubRowLevel\[\]\)](#) shows how this might look. Note that this is only in the secondary dimension.

**Parameters:**

b - Whether folder rows' size should include its childrens bounds in the secondary dimension.

---

## getCellBorder

```
public javax.swing.border.Border getCellBorder()
```

Property: The `javax.swing.border.Border` used to draw around the cells in the header.

**Returns:**

The current border or null if no border should be painted.

---

## setCellBorder

```
public void setCellBorder(javax.swing.border.Border border)
```

Property: The `javax.swing.border.Border` used to draw around the cells in the header.

**Parameters:**

border - The new border or null if no border should be painted.

---

## getKnobExpandedImage

```
public XtdImage getKnobExpandedImage()
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows. This is for folder rows that are in their expanded state.

**Returns:**

The current image or null for none.

---

## setKnobExpandedImage

```
public void setKnobExpandedImage(XtdImage image)
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows. This is for folder rows that are in their expanded state.

**Parameters:**

image - The new image or null for none.

---

## getKnobFoldedImage

```
public XtdImage getKnobFoldedImage()
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows. This is for folder rows that are in their folded state.

**Returns:**

---

(continued from last page)

The current image or null for none.

---

## setKnobFoldedImage

```
public void setKnobFoldedImage(XtdImage image)
```

Property: A `com.miginfocom.util.gfx.XtdImage` (which is a very flexible `Image/Icon`) that should decorate the knob (handle, e.g. +-) that you press th expand/fold the folder rows. This is for folder rows that are in their folded state.

### Parameters:

image - The new image or null for none.

---

## getKnobImageAlignX

```
public AtRefRangeNumber getKnobImageAlignX()
```

Property: How the knob image should be aligned horizontally. E.g.: `new AtFraction(0.5f)` for centered or `new AtStart(2f)` for two pixels from the left edge.

### Returns:

The current alignment or null for which the behaviour is undefined.

### See Also:

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## setKnobImageAlignX

```
public void setKnobImageAlignX(AtRefRangeNumber align)
```

Property: How the knob image should be aligned horizontally. E.g.: `new AtFraction(0.5f)` for centered or `new AtStart(2f)` for two pixels from the left edge.

### Parameters:

align - The new alignment. Not null.

### See Also:

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## getKnobImageAlignY

```
public AtRefRangeNumber getKnobImageAlignY()
```

Property: How the knob image should be aligned vertically. E.g.: `new AtFraction(0.5f)` for centered or `new AtStart(2f)` for two pixels from the left edge.

### Returns:

The current alignment. Not null.

### See Also:

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

(continued from last page)

## setKnobImageAlignY

```
public void setKnobImageAlignY(AtRefRangeNumber align)
```

Property: How the knob image should be aligned vertically. E.g.: new `AtFraction(0.5f)` for centered or new `AtEnd(-2f)` for two pixels from the bottom edge.

**Parameters:**

align - The new alignment Not null.

**See Also:**

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## getRowImageAlignX

```
public AtRefRangeNumber getRowImageAlignX()
```

Property: How the row image should be aligned horizontally. E.g.: new `AtFraction(0.5f)` for centered or new `AtStart(2f)` for two pixels from the left edge.

**Returns:**

The current alignment. Not null.

**See Also:**

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## setRowImageAlignX

```
public void setRowImageAlignX(AtRefRangeNumber align)
```

Property: How the row image should be aligned horizontally. E.g.: new `AtFraction(0.5f)` for centered or new `AtStart(2f)` for two pixels from the left edge.

**Parameters:**

align - The new alignment. Not null.

**See Also:**

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## getRowImageAlignY

```
public AtRefRangeNumber getRowImageAlignY()
```

Property: How the row image should be aligned vertically. E.g.: new `AtFraction(0.5f)` for centered or new `AtStart(2f)` for two pixels from the left edge.

**Returns:**

The current alignment. Not null.

**See Also:**

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## setRowImageAlignY

```
public void setRowImageAlignY(AtRefRangeNumber align)
```

Property: How the row image should be aligned vertically. E.g.: `new AtFraction(0.5f)` for centered or `new AtEnd(-2f)` for two pixels from the bottom edge.

**Parameters:**

`align` - The new alignment. Not null.

**See Also:**

`AtFraction`  
`com.miginfocom.util.gfx.geometry.numbers.AtStart`  
`com.miginfocom.util.gfx.geometry.numbers.AtEnd`

---

## getTextAntiAlias

```
public int getTextAntiAlias()
```

Property: The anti aliasing hint used when drawing the text for the shape. For instance `AA_HINT_ON`.

**Returns:**

The current hint. May be null.

**See Also:**

`confAntiAliasingHint`

---

## setTextAntiAlias

```
public void setTextAntiAlias(int hint)
```

Property: The anti aliasing hint used when drawing the text for the shape. For instance `AA_HINT_PLATFORM`.

**Parameters:**

`hint` - The new hint.

**See Also:**

`confAntiAliasingHint`

---

## addInteractionListener

```
public void addInteractionListener(InteractionListener l)
```

Adds a listener that listens to `InteractionEvents`. Interaction events are normally fired by the `Interaction/Interactor/AbstractInteractionBroker` framework, used for instance by the `com.miginfocom.ashape.shapes.AShape` framework.

The interaction events that is fired is when the user presses the knob or the label in the header.

This class is actually a re-dispatcher of these events. It is itself an `com.miginfocom.ashape.interaction.InteractionListener` and registers itself on the interaction observable objects it creates. For instance `com.miginfocom.calendar.activity.view.ActivityViews`.

**Parameters:**

`l` - The listener to add

---

(continued from last page)

## addInteractionListener

```
public void addInteractionListener(InteractionListener l,  
    boolean asWeakRef)
```

Adds a listener that listens to `InteractionEvents`. Interaction events are normally fired by the `Interaction/Interactor/AbstractInteractionBroker` framework, used for instance by the `com.miginfocom.ashape.shapes.AShape` framework.

The interaction events that is fired is when the user presses the knob or the label in the header.

This class is actually a re-dispatcher of these events. It is itself an `com.miginfocom.ashape.interaction.InteractionListener` and registers itself on the interaction observable objects it creates. For instance `com.miginfocom.calendar.activity.view.ActivityViews`.

### Parameters:

l - The listener to add

asWeakRef - If the listener should be added wrapped in a `java.lang.ref.WeakReference`. This defers memory leak problems since the garbage collector can collect the listener if it is only referenced from this list.

**Note!** This (weak reference) can not be used with listeners that doesn't have another real (a.k.a Strong) reference to it, as for instance an anonymous inner class. If one such listener is added it will be removed almost immediately by the garbage collector.

---

## removeInteractionListener

```
public void removeInteractionListener(InteractionListener l)
```

Removes the listener.

### Parameters:

l - The listener to remove.

## com.miginfocom.beans Class CategoryTreeBean

```

java.lang.Object
  |-- java.awt.Component
      |-- java.awt.Container
          |-- javax.swing.JComponent
              |-- javax.swing.JPanel
                  |-- com.miginfocom.beans.CategoryTreeBean
  
```

### All Implemented Interfaces:

Serializable, java.awt.MenuContainer, java.awt.image.ImageObserver, javax.swing.TransferHandler.HasGetTransferHandler, Serializable, javax.accessibility.Accessible

```

public class CategoryTreeBean
extends javax.swing.JPanel
  
```

Field Summary	
public static final	<a href="#">CHECK_CLICKED</a> The Command Value in for the InteractionEvent that is fired when the label is clicked. Value: <b>checkClicked</b>
public static final	<a href="#">CHECK_SELECTED_KEY</a> This is the <i>default</i> key used to set in the com.miginfocom.calendar.category.Category a Boolean object denoting if the check box is considered selected or not.
public static final	<a href="#">FOLDER_CHECK_BACKGROUND_SHAPE_NAME</a> Value: <b>ctChkBb_f</b>
public static final	<a href="#">FOLDER_CHECK_IMAGE_SHAPE_NAME</a> Value: <b>ctChkImg_f</b>
public static final	<a href="#">FOLDER_CHECK_OUTLINE_SHAPE_NAME</a> Value: <b>ctChkOl_f</b>
public static final	<a href="#">FOLDER_CONTAINER_SHAPE_NAME</a> Value: <b>ctBLay_f</b>
public static final	<a href="#">FOLDER_LABEL_SHAPE_NAME</a> Value: <b>ctLab_f</b>
public static final	<a href="#">LABEL_CLICKED</a> The Command Value in for the InteractionEvent that is fired when the label is clicked. Value: <b>labelClicked</b>

public static final	<a href="#">LABEL_SELECTED_KEY</a> This is the <i>default</i> key used to set in the <code>com.miginfocom.calendar.category.Category</code> a Boolean object denoting if the label is considered selected or not.
public static final	<a href="#">LEAF_CHECK_BACKGROUND_SHAPE_NAME</a> Value: <code>ctChkBb_1</code>
public static final	<a href="#">LEAF_CHECK_IMAGE_SHAPE_NAME</a> Value: <code>ctChkImg_1</code>
public static final	<a href="#">LEAF_CHECK_OUTLINE_SHAPE_NAME</a> Value: <code>ctChkOl_1</code>
public static final	<a href="#">LEAF_CONTAINER_SHAPE_NAME</a> Value: <code>ctBLay_1</code>
public static final	<a href="#">LEAF_LABEL_SHAPE_NAME</a> Value: <code>ctLab_1</code>
public static final	<a href="#">ROOT_SHAPE_NAME</a> Value: <code>ctRoot</code>

**Fields inherited from class** javax.swing.JComponent

TOOL\_TIP\_TEXT\_KEY, UNDEFINED\_CONDITION, WHEN\_ANCESTOR\_OF\_FOCUSED\_COMPONENT, WHEN\_FOCUSED, WHEN\_IN\_FOCUSED\_WINDOW

**Fields inherited from class** java.awt.Component

BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT

**Fields inherited from interface** java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

## Constructor Summary

public	<a href="#">CategoryTreeBean()</a>
--------	------------------------------------

## Method Summary

void	<a href="#">addDecorator</a> (Decorator decorator) Adds a decorator.
void	<a href="#">addDecorators</a> (Collection decorators) Calls <code>addDecorator(com.miginfocom.calendar.decorators.Decorator)</code> for every element in the collection.
void	<a href="#">addInteractionListener</a> (InteractionListener l) Adds a listener that listens to <code>InteractionEvents</code> .

void	<a href="#">addInteractionListener</a> (InteractionListener l, boolean asWeakRef) Adds a listener that listens to InteractionEvents.
void	<a href="#">addNotify</a> ()
int	<a href="#">getAntiAliasHint</a> () Property: The anti alias hint for the label text.
java.awt.Paint	<a href="#">getBackgroundPaint</a> () Sets the background paint.
Category	<a href="#">getCategoryAtLocation</a> (int x, int y) A hit test that returns the Category for a point.
boolean	<a href="#">getCategoryAutoRevalidate</a> () Property: If the categories in the CategoryDepository changes the tree will revalidate itself if there is a category root set.
CategoryViewFilter	<a href="#">getCategoryViewFilter</a> () Property: A filter that can be used to filter out which Categories should be visible in the tree.
static Boolean	<a href="#">getCheckedState</a> (PropertyKey key, Category cat) Returns the checked state of a category.
PropertyKey	<a href="#">getCheckSelectedKey</a> () Property: This is the key used to set in the com.miginfocom.calendar.category.Category a Boolean object denoting on if the check is considered selected or not.
List	<a href="#">getDecorators</a> () Returns a cloned list with the decorators currently installed in this tree.
<a href="#">DemoDataBean</a>	<a href="#">getDemoDataBean</a> () Property: A reference to a demo data bean that creates demo category data for this bean.
java.awt.Paint	<a href="#">getFolderBackground</a> () Property: The anti alias hint for the label text.
java.awt.Paint	<a href="#">getFolderCheckBackground</a> () Property: The paint to use for the background of the check.
java.awt.Cursor	<a href="#">getFolderCheckCursor</a> () Property: The cursor for when the mouse is over the check.
java.awt.Paint	<a href="#">getFolderCheckForeground</a> () Property: The paint to use for the foreground of the check.
XtdImage	<a href="#">getFolderCheckHalfSelectedIcon</a> () Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.
PlaceRect	<a href="#">getFolderCheckIconPlaceRect</a> () Property: Where in the check shape the icon of the actual check should be placed.
java.awt.Paint	<a href="#">getFolderCheckMouseOverBackground</a> () Property: The paint to use for the background of the check when the mouse is hovering over it.

java.awt.Paint	<a href="#">getFolderCheckMouseOverForeground()</a> Property: The paint to use for the foreground of the check when the mouse is hovering over it.
PlaceRect	<a href="#">getFolderCheckPlaceRect()</a> Property: Where the check outline should be placed within the node.
XtdImage	<a href="#">getFolderCheckSelectedIcon()</a> Property: The selected check icon.
java.awt.Shape	<a href="#">getFolderCheckShape()</a> Property: The shape outline of the check box.
int	<a href="#">getFolderCheckWidth()</a> Property: The width in pixels for the check.
java.awt.Font	<a href="#">getFolderFont()</a> Property: The font used to draw the label.
java.awt.Color	<a href="#">getFolderForeground()</a> Property: The foreground color used to draw the label.
int	<a href="#">getFolderIconTextGap()</a> Property: The gap in pixels between the icon and text.
java.awt.Cursor	<a href="#">getFolderLabelCursor()</a> Property: The hover mouse cursor over the label.
java.awt.Paint	<a href="#">getFolderMouseOverBackground()</a> Property: Background paint when the mouse is hovering over the node.
java.awt.Font	<a href="#">getFolderMouseOverFont()</a> Property: The font when the mouse is hovering over the node.
java.awt.Color	<a href="#">getFolderMouseOverForeground()</a> Property: Foreground paint when the mouse is hovering over the node.
Integer	<a href="#">getFolderMouseOverUnderline()</a> Property: The underline width.
int	<a href="#">getFolderRowHeight()</a> Property: The height in pixels for every row in the tree.
java.awt.Paint	<a href="#">getFolderSelectedBackground()</a> Property: The background if the node label is selected.
java.awt.Font	<a href="#">getFolderSelectedFont()</a> Property: The font if the node label is selected.
java.awt.Color	<a href="#">getFolderSelectedForeground()</a> Property: The foreground if the node label is selected.
Integer	<a href="#">getFolderSelectedUnderline()</a> Property: The underline width if the node label is selected.
Integer	<a href="#">getFolderUnderline()</a> Property: The underline width in pixels.

PropertyKey	<a href="#">getLabelSelectedKey()</a> Property: This is the key used to set in the <code>com.miginfocom.calendar.category.Category</code> a Boolean object denoting on if the label is considered selected or not.
<code>java.awt.Paint</code>	<a href="#">getLeafBackground()</a> Property: The background paint of the node.
<code>java.awt.Paint</code>	<a href="#">getLeafCheckBackground()</a> Property: The paint to use for the background of the check.
<code>java.awt.Cursor</code>	<a href="#">getLeafCheckCursor()</a> Property: The cursor set when the mouse is hovering over the check.
<code>java.awt.Paint</code>	<a href="#">getLeafCheckForeground()</a> Property: The paint to use for the foreground of the check.
<code>XtdImage</code>	<a href="#">getLeafCheckHalfSelectedIcon()</a> Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.
<code>PlaceRect</code>	<a href="#">getLeafCheckIconPlaceRect()</a> Property: Where in the check shape the icon of the actual check should be placed.
<code>java.awt.Paint</code>	<a href="#">getLeafCheckMouseOverBackground()</a> Property: The background for when the mouse is hovering over the check.
<code>java.awt.Paint</code>	<a href="#">getLeafCheckMouseOverForeground()</a> Property: The foreground for when the mouse is hovering over the check.
<code>PlaceRect</code>	<a href="#">getLeafCheckPlaceRect()</a> Property: Where the check outline should be placed within the node.
<code>XtdImage</code>	<a href="#">getLeafCheckSelectedIcon()</a> Property: The icon/image for when the check is selected.
<code>java.awt.Shape</code>	<a href="#">getLeafCheckShape()</a> Property: The shape outline of the check box.
<code>int</code>	<a href="#">getLeafCheckWidth()</a> Property: The width in pixels for the check.
<code>java.awt.Font</code>	<a href="#">getLeafFont()</a> Property: The font of the label.
<code>java.awt.Color</code>	<a href="#">getLeafForeground()</a> Property: The foreground of the label.
<code>int</code>	<a href="#">getLeafIconTextGap()</a> Property: The gap in pixels between the icon and text.
<code>java.awt.Cursor</code>	<a href="#">getLeafLabelCursor()</a> Property: The cursor for when the mouse is hovering over the label.
<code>java.awt.Paint</code>	<a href="#">getLeafMouseOverBackground()</a> Property: The background for when the mouse is hovering over the label.
<code>java.awt.Font</code>	<a href="#">getLeafMouseOverFont()</a> Property: The font for when the mouse is hovering over the label.

java.awt.Color	<a href="#">getLeafMouseOverForeground()</a> Property: The foreground for when the mouse is hovering over the label.
Integer	<a href="#">getLeafMouseOverUnderline()</a> Property: The underline in pixels for when the mouse is hovering over the label.
int	<a href="#">getLeafRowHeight()</a> Property: The height in pixels for every row in the tree.
java.awt.Paint	<a href="#">getLeafSelectedBackground()</a> Property: The background if the node label is selected.
java.awt.Font	<a href="#">getLeafSelectedFont()</a> Property: The font if the node label is selected.
java.awt.Color	<a href="#">getLeafSelectedForeground()</a> Property: The foreground if the node label is selected.
Integer	<a href="#">getLeafSelectedUnderline()</a> Property: The underline in pixels if the node label is selected.
Integer	<a href="#">getLeafUnderline()</a> Property: The underline width in pixels.
java.awt.Dimension	<a href="#">getPreferredSize()</a>
Object	<a href="#">getRootCategoryId()</a> Returns the category ID of the root node.
javax.swing.JScrollPane	<a href="#">getScrollPane()</a> Returns the scroll panel that is used to show the category tree.
boolean	<a href="#">getShowsRootHandles()</a> Property: If the root handles should be visible.
javax.swing.JTree	<a href="#">getTree()</a> Returns the JTree that is the backing component for this tree bean.
void	<a href="#">interactionOccured(InteractionEvent e)</a>
boolean	<a href="#">isFolderCheckSelectable()</a> Property: If the check can be selected.
boolean	<a href="#">isFolderCheckVisible()</a> Property: If the check box is visible.
boolean	<a href="#">isFolderLabelSelectable()</a> Property: If the label should be selectable (press-able)
boolean	<a href="#">isFolderRouteLabelClickToCheck()</a> Property: If a click on the label should be transformed to a click on the check.
boolean	<a href="#">isIgnoreInteractionEvents()</a> Returns if events are currently ignored.
boolean	<a href="#">isLeafCheckSelectable()</a> Property: If the check should be selectable.

boolean	<a href="#"><u>isLeafCheckVisible()</u></a> Property: If the check box is visible.
boolean	<a href="#"><u>isLeafLabelSelectable()</u></a> Property: If the label should be selectable.
boolean	<a href="#"><u>isLeafRouteLabelClickToCheck()</u></a> Property: If a click on the label should be transformed to a click on the check.
boolean	<a href="#"><u>isRootVisible()</u></a> Property: If the root node should be visible.
boolean	<a href="#"><u>removeDecorator</u></a> (Class type, boolean inclSubClasses) Removes the first decorator found with the class type type, including sub types id inclSubClasses == true.
void	<a href="#"><u>removeDecorator</u></a> (Decorator decorator) Removes a decorator.
void	<a href="#"><u>removeDecorators()</u></a> Removes all decorators.
void	<a href="#"><u>removeDecorators</u></a> (Collection decorators) Removes all decorators
void	<a href="#"><u>removeInteractionListener</u></a> (InteractionListener l) Removes the listener if it is added.
void	<a href="#"><u>removeNotify()</u></a>
void	<a href="#"><u>revalidateNodes</u></a> (Object fromCatId, boolean keepExpanded) Revalidate the nodes starting from fromCatId.
void	<a href="#"><u>setAntiAliasHint</u></a> (int hint) Property: The anti alias hint for the label text.
void	<a href="#"><u>setBackgroundPaint</u></a> (java.awt.Paint bgPaint) Sets the background paint.
void	<a href="#"><u>setCategoryAutoRevalidate</u></a> (boolean b) Property: If the categories in the CategoryDepository changes the tree will revalidate itself if there is a category root set.
void	<a href="#"><u>setCategoryViewFilter</u></a> (CategoryViewFilter filter) Property: A filter that can be used to filter out which Categories should be visible in the tree.
static void	<a href="#"><u>setCheckedState</u></a> (PropertyKey key, Category cat, boolean b) Set the selected state for the category.
void	<a href="#"><u>setCheckSelectedKey</u></a> (PropertyKey key) Property: This is the key used to set in the com.miginfocom.calendar.category.Category a Boolean object denoting on if the check is considered selected or not.
void	<a href="#"><u>setDecorators</u></a> (Collection decorators) Sets the decorators to use.
void	<a href="#"><u>setDemoDataBean</u></a> ( <a href="#"><u>DemoDataBean</u></a> b) Property: A reference to a demo data bean that creates demo category data for this bean.

void	<a href="#">setFolderBackground</a> ( java.awt.Paint p) Property: The anti alias hint for the label text.
void	<a href="#">setFolderCheckBackground</a> ( java.awt.Paint p) Property: The paint to use for the background of the check.
void	<a href="#">setFolderCheckCursor</a> ( java.awt.Cursor cur) Property: The cursor for when the mouse is over the check.
void	<a href="#">setFolderCheckForeground</a> ( java.awt.Paint p) Property: The paint to use for the foreground of the check.
void	<a href="#">setFolderCheckHalfSelectedIcon</a> (XtdImage image) Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.
void	<a href="#">setFolderCheckIconPlaceRect</a> (PlaceRect r) Property: Where in the check shape the icon of the actual check should be placed.
void	<a href="#">setFolderCheckMouseOverBackground</a> ( java.awt.Paint p) Property: The paint to use for the background of the check when the mouse is hovering over it.
void	<a href="#">setFolderCheckMouseOverForeground</a> ( java.awt.Paint p) Property: The paint to use for the foreground of the check when the mouse is hovering over it.
void	<a href="#">setFolderCheckPlaceRect</a> (PlaceRect r) Property: Where the check outline should be placed within the node.
void	<a href="#">setFolderCheckSelectable</a> (boolean b) Property: If the check can be selected.
void	<a href="#">setFolderCheckSelectedIcon</a> (XtdImage image) Property: The selected check icon.
void	<a href="#">setFolderCheckShape</a> ( java.awt.Shape s) Property: The shape outline of the check box.
void	<a href="#">setFolderCheckWidth</a> (int w) Property: The width in pixels for the check.
void	<a href="#">setFolderCheckVisible</a> (boolean b) Property: If the check box is visible.
void	<a href="#">setFolderFont</a> ( java.awt.Font f) Property: The font used to draw the label.
void	<a href="#">setFolderForeground</a> ( java.awt.Color c) Property: The foreground color used to draw the label.
void	<a href="#">setFolderIconTextGap</a> (int gap) Property: The gap in pixels between the icon and text.
void	<a href="#">setFolderLabelCursor</a> ( java.awt.Cursor cur) Property: The hover mouse cursor over the label.
void	<a href="#">setFolderLabelSelectable</a> (boolean b) Property: If the label should be selectable (press-able)

void	<a href="#">setFolderMouseOverBackground</a> ( java.awt.Paint p) Property: Background paint when the mouse is hovering over the node.
void	<a href="#">setFolderMouseOverFont</a> ( java.awt.Font f) Property: The font when the mouse is hovering over the node.
void	<a href="#">setFolderMouseOverForeground</a> ( java.awt.Color c) Property: Foreground paint when the mouse is hovering over the node.
void	<a href="#">setFolderMouseOverUnderline</a> (Integer b) Property: The underline width.
void	<a href="#">setFolderRouteLabelClickToCheck</a> (boolean b) Property: If a click on the label should be transformed to a click on the check.
void	<a href="#">setFolderRowHeight</a> (int height) Property: The height in pixels for every row in the tree.
void	<a href="#">setFolderSelectedBackground</a> ( java.awt.Paint p) Property: The background if the node label is selected.
void	<a href="#">setFolderSelectedFont</a> ( java.awt.Font f) Property: The font if the node label is selected.
void	<a href="#">setFolderSelectedForeground</a> ( java.awt.Color c) Property: The foreground if the node label is selected.
void	<a href="#">setFolderSelectedUnderline</a> (Integer width) Property: The underline width if the node label is selected.
void	<a href="#">setFolderUnderline</a> (Integer b) Property: The underline width in pixels.
boolean	<a href="#">setIgnoreInteractionEvents</a> (boolean b) Sets if events should be ignored, and thus not fired.
void	<a href="#">setLabelSelectedKey</a> (PropertyKey key) Property: This is the key used to set in the com.miginfocom.calendar.category.Category a Boolean object denoting on if the label is considered selected or not.
void	<a href="#">setLeafBackground</a> ( java.awt.Paint p) Property: The background paint of the node.
void	<a href="#">setLeafCheckBackground</a> ( java.awt.Paint p) Property: The paint to use for the background of the check.
void	<a href="#">setLeafCheckCursor</a> ( java.awt.Cursor cur) Property: The cursor set when the mouse is hovering over the check.
void	<a href="#">setLeafCheckForeground</a> ( java.awt.Paint p) Property: The paint to use for the foreground of the check.
void	<a href="#">setLeafCheckHalfSelectedIcon</a> (XtdImage image) Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.
void	<a href="#">setLeafCheckIconPlaceRect</a> (PlaceRect r) Property: Where in the check shape the icon of the actual check should be placed.

void	<a href="#">setLeafCheckMouseOverBackground</a> ( java.awt.Paint p) Property: The background for when the mouse is hovering over the check.
void	<a href="#">setLeafCheckMouseOverForeground</a> ( java.awt.Paint p) Property: The foreground for when the mouse is hovering over the check.
void	<a href="#">setLeafCheckPlaceRect</a> ( PlaceRect r) Property: Where the check outline should be placed within the node.
void	<a href="#">setLeafCheckSelectable</a> (boolean b) Property: If the check should be selectable.
void	<a href="#">setLeafCheckSelectedIcon</a> (XtdImage image) Property: The icon/image for when the check is selected.
void	<a href="#">setLeafCheckShape</a> ( java.awt.Shape s) Property: The shape outline of the check box.
void	<a href="#">setLeafCheckWidth</a> (int w) Property: The width in pixels for the check.
void	<a href="#">setLeafCheckVisible</a> (boolean b) Property: If the check box is visible.
void	<a href="#">setLeafFont</a> ( java.awt.Font f) Property: The font of the label.
void	<a href="#">setLeafForeground</a> ( java.awt.Color c) Property: The foreground of the label.
void	<a href="#">setLeafIconTextGap</a> (int gap) Property: The gap in pixels between the icon and text.
void	<a href="#">setLeafLabelCursor</a> ( java.awt.Cursor cur) Property: The cursor for when the mouse is hovering over the label.
void	<a href="#">setLeafLabelSelectable</a> (boolean b) Property: If the label should be selectable.
void	<a href="#">setLeafMouseOverBackground</a> ( java.awt.Paint p) Property: The background for when the mouse is hovering over the label.
void	<a href="#">setLeafMouseOverFont</a> ( java.awt.Font f) Property: The font for when the mouse is hovering over the label.
void	<a href="#">setLeafMouseOverForeground</a> ( java.awt.Color c) Property: The foreground for when the mouse is hovering over the label.
void	<a href="#">setLeafMouseOverUnderline</a> (Integer b) Property: The underline in pixels for when the mouse is hovering over the label.
void	<a href="#">setLeafRouteLabelClickToCheck</a> (boolean b) Property: If a click on the label should be transformed to a click on the check.
void	<a href="#">setLeafRowHeight</a> (int height) Property: The height in pixels for every row in the tree.
void	<a href="#">setLeafSelectedBackground</a> ( java.awt.Paint p) Property: The background if the node label is selected.

void	<a href="#">setLeafSelectedFont</a> (java.awt.Font f) Property: The font if the node label is selected.
void	<a href="#">setLeafSelectedForeground</a> (java.awt.Color c) Property: The foreground if the node label is selected.
void	<a href="#">setLeafSelectedUnderline</a> (Integer width) Property: The underline in pixels if the node label is selected.
void	<a href="#">setLeafUnderline</a> (Integer b) Property: The underline width in pixels.
void	<a href="#">setPreferredSize</a> (java.awt.Dimension preferredSize)
void	<a href="#">setRootCategoryId</a> (Object catIDRoot) Sets the category ID of the root node.
void	<a href="#">setRootVisible</a> (boolean b) Property: If the root node should be visible.
void	<a href="#">setShowsRootHandles</a> (boolean b) Property: If the root handles should be visible.
void	<a href="#">sortDecorators</a> () Resort the decorators that this tree handles.
static void	<a href="#">toggleCheckedState</a> (PropertyKey key, Category cat) Toggles the checked state on the category.

**Methods inherited from class** javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

**Methods inherited from class** javax.swing.JComponent

addAncestorListener, addNotify, addVetoableChangeListener, computeVisibleRect, contains, createToolTip, disable, enable, firePropertyChange, firePropertyChange, firePropertyChange, getAccessibleContext, getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY, getAncestorListeners, getAutoscrolls, getBaseline, getBaselineResizeBehavior, getBorder, getBounds, getClientProperty, getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions, getDefaultLocale, getFontMetrics, getGraphics, getHeight, getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets, getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize, getNextFocusableComponent, getPopupLocation, getPreferredSize, getRegisteredKeyStrokes, getRootPane, getSize, getToolTipLocation, getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler, getUIClassID, getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getWidth, getVisibleRect, getX, getY, grabFocus, isDoubleBuffered, isLightweightComponent, isManagingFocus, isOpaque, isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile, isRequestFocusEnabled, isValidRoot, paint, paintImmediately, paintImmediately, print, printAll, putClientProperty, registerKeyboardAction, registerKeyboardAction, removeAncestorListener, removeNotify, removeVetoableChangeListener, repaint, repaint, requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow, resetKeyboardActions, reshape, revalidate, scrollRectToVisible, setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground, setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale, setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont, setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier, setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque, setPreferredSize, setRequestFocusEnabled, setToolTipText, setTransferHandler, setVerifyInputWhenFocusTarget, setVisible, unregisterKeyboardAction, update, updateUI

#### Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addNotify, addPropertyChangeListener, addPropertyChangeListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy, getInsets, getLayout, getListeners, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paint, paintComponents, preferredSize, print, printComponents, remove, remove, removeAll, removeContainerListener, removeNotify, setComponentZOrder, setFocusCycleRoot, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, setLayout, transferFocusBackward, transferFocusDownCycle, update, validate

#### Methods inherited from class java.awt.Component



```
getAccessibleContext
```

## Fields

### LABEL\_SELECTED\_KEY

```
public static final PropertyKey LABEL_SELECTED_KEY
```

This is the *default* key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting if the label is considered selected or not. It can also be set on a tree by tree basis using `setLabelSelectedKey(com.miginfocom.util.PropertyKey)`.

### CHECK\_SELECTED\_KEY

```
public static final PropertyKey CHECK_SELECTED_KEY
```

This is the *default* key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting if the check box is considered selected or not. It can also be set on a tree by tree basis using `setCheckSelectedKey(com.miginfocom.util.PropertyKey)`.

### LABEL\_CLICKED

```
public static final java.lang.String LABEL_CLICKED
```

The Command Value in for the `InteractionEvent` that is fired when the label is clicked.  
Constant value: `labelClicked`

### CHECK\_CLICKED

```
public static final java.lang.String CHECK_CLICKED
```

The Command Value in for the `InteractionEvent` that is fired when the label is clicked.  
Constant value: `checkClicked`

### ROOT\_SHAPE\_NAME

```
public static final java.lang.String ROOT_SHAPE_NAME
```

Constant value: `ctRoot`

### FOLDER\_CHECK\_BACKGROUND\_SHAPE\_NAME

```
public static final java.lang.String FOLDER_CHECK_BACKGROUND_SHAPE_NAME
```

Constant value: `ctChkBb_f`

### FOLDER\_CHECK\_OUTLINE\_SHAPE\_NAME

```
public static final java.lang.String FOLDER_CHECK_OUTLINE_SHAPE_NAME
```

Constant value: `ctChkO1_f`

(continued from last page)

---

**FOLDER\_CHECK\_IMAGE\_SHAPE\_NAME**

```
public static final java.lang.String FOLDER_CHECK_IMAGE_SHAPE_NAME
```

Constant value: **ctChkImg\_f**

---

**FOLDER\_LABEL\_SHAPE\_NAME**

```
public static final java.lang.String FOLDER_LABEL_SHAPE_NAME
```

Constant value: **ctLab\_f**

---

**FOLDER\_CONTAINER\_SHAPE\_NAME**

```
public static final java.lang.String FOLDER_CONTAINER_SHAPE_NAME
```

Constant value: **ctBLay\_f**

---

**LEAF\_CHECK\_BACKGROUND\_SHAPE\_NAME**

```
public static final java.lang.String LEAF_CHECK_BACKGROUND_SHAPE_NAME
```

Constant value: **ctChkBb\_1**

---

**LEAF\_CHECK\_OUTLINE\_SHAPE\_NAME**

```
public static final java.lang.String LEAF_CHECK_OUTLINE_SHAPE_NAME
```

Constant value: **ctChkO1\_1**

---

**LEAF\_CHECK\_IMAGE\_SHAPE\_NAME**

```
public static final java.lang.String LEAF_CHECK_IMAGE_SHAPE_NAME
```

Constant value: **ctChkImg\_1**

---

**LEAF\_LABEL\_SHAPE\_NAME**

```
public static final java.lang.String LEAF_LABEL_SHAPE_NAME
```

Constant value: **ctLab\_1**

---

**LEAF\_CONTAINER\_SHAPE\_NAME**

```
public static final java.lang.String LEAF_CONTAINER_SHAPE_NAME
```

Constant value: **ctBLay\_1**

---

## Constructors

(continued from last page)

## CategoryTreeBean

```
public CategoryTreeBean()
```

## Methods

### addNotify

```
public void addNotify()
```

### removeNotify

```
public void removeNotify()
```

### getPreferredSize

```
public java.awt.Dimension getPreferredSize()
```

### setPreferredSize

```
public void setPreferredSize(java.awt.Dimension preferredSize)
```

### getTree

```
public javax.swing.JTree getTree()
```

Returns the JTree that is the backing component for this tree bean.

**Returns:**

The JTree that is the backing component for this tree bean.

### getCategoryAtLocation

```
public Category getCategoryAtLocation(int x,  
                                     int y)
```

A hit test that returns the Category for a point.

**Parameters:**

- x - The x value that is relative to the contained tree.
- y - The y value that is relative to the contained tree.

**Returns:**

The Category or null if no hit.

(continued from last page)

---

## getScrollPane

```
public javax.swing.JScrollPane getScrollPane()
```

Returns the scroll panel that is used to show the category tree.

**Returns:**

The scroll panel that is used to show the category tree. Never null.

---

## getCategoryViewFilter

```
public CategoryViewFilter getCategoryViewFilter()
```

Property: A filter that can be used to filter out which Categories should be visible in the tree.

**Returns:**

The current filter. null if no filter.

---

## setCategoryViewFilter

```
public void setCategoryViewFilter(CategoryViewFilter filter)
```

Property: A filter that can be used to filter out which Categories should be visible in the tree.

**Parameters:**

filter - The new filter. null if no filter.

---

## getBackgroundPaint

```
public java.awt.Paint getBackgroundPaint()
```

Sets the background paint. If != null this paint is drawn in the background (if opaque) rather than the normal background color. If this is null the normal color retrieved from `Component.getBackground()` is painted instead. If not opaque none of the colors will be painted.

**Returns:**

The background paint. May be null.

---

## setBackgroundPaint

```
public void setBackgroundPaint(java.awt.Paint bgPaint)
```

Sets the background paint. If != null this paint is drawn in the background (if opaque) rather than the normal background color. If this is null the normal color retrieved from `Component.getBackground()` is painted instead. If not opaque none of the colors will be painted.

**Parameters:**

bgPaint - The background paint. May be null.

---

## getCategoryAutoRevalidate

```
public boolean getCategoryAutoRevalidate()
```

Property: If the categories in the `CategoryDepository` changes the tree will revalidate itself if there is a category root set.

**Returns:**

If the auto revalidation is on.

---

---

## setCategoryAutoRevalidate

```
public void setCategoryAutoRevalidate(boolean b)
```

Property: If the categories in the `CategoryDepository` changes the tree will revalidate itself if there is a category root set.

**Parameters:**

b - If the auto revalidation is on.

---

## getLabelSelectedKey

```
public PropertyKey getLabelSelectedKey()
```

Property: This is the key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting on if the label is considered selected or not.

The key defaults to [LABEL\\_SELECTED\\_KEY](#) but using that means that all category trees will have the same model state for a category, which is sometime wanted and sometimes not.

**Returns:**

The current key. Never null.

---

## setLabelSelectedKey

```
public void setLabelSelectedKey(PropertyKey key)
```

Property: This is the key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting on if the label is considered selected or not.

The key defaults to [LABEL\\_SELECTED\\_KEY](#) but using that means that all category trees will have the same model state for a category, which is sometime wanted and sometimes not.

**Parameters:**

key - The new key. null will reset it to the default value.

---

## getCheckSelectedKey

```
public PropertyKey getCheckSelectedKey()
```

Property: This is the key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting on if the check is considered selected or not.

The key defaults to [CHECK\\_SELECTED\\_KEY](#) but using that means that all category trees will have the same model state for a category, which is sometime wanted and sometimes not.

**Returns:**

The current key. Never null.

---

## setCheckSelectedKey

```
public void setCheckSelectedKey(PropertyKey key)
```

Property: This is the key used to set in the `com.miginfocom.calendar.category.Category` a Boolean object denoting on if the check is considered selected or not.

The key defaults to [CHECK\\_SELECTED\\_KEY](#) but using that means that all category trees will have the same model state for a category, which is sometime wanted and sometimes not.

**Parameters:**

---

(continued from last page)

key - The new key. null will reset it to the default value.

---

## getDemoDataBean

```
public DemoDataBean getDemoDataBean()
```

Property: A reference to a demo data bean that creates demo category data for this bean. This is normally only used for testing purposes and should not be used in any production environment.

**Returns:**

The current value of the property or null.

---

## setDemoDataBean

```
public void setDemoDataBean(DemoDataBean b)
```

Property: A reference to a demo data bean that creates demo category data for this bean. This is normally only used for testing purposes and should not be used in any production environment.

**Parameters:**

b - The new value for the property. May be null.

---

## isLeafRouteLabelClickToCheck

```
public boolean isLeafRouteLabelClickToCheck()
```

Property: If a click on the label should be transformed to a click on the check.

**Returns:**

The current value. Default is false.

---

## setLeafRouteLabelClickToCheck

```
public void setLeafRouteLabelClickToCheck(boolean b)
```

Property: If a click on the label should be transformed to a click on the check.

**Parameters:**

b - The new value. Default is false.

---

## isFolderRouteLabelClickToCheck

```
public boolean isFolderRouteLabelClickToCheck()
```

Property: If a click on the label should be transformed to a click on the check.

**Returns:**

The current value. Default is false.

---

## setFolderRouteLabelClickToCheck

```
public void setFolderRouteLabelClickToCheck(boolean b)
```

Property: If a click on the label should be transformed to a click on the check.

**Parameters:**

b - The new value. Default is false.

---

---

(continued from last page)

## isLeafCheckVisible

```
public boolean isLeafCheckVisible()
```

Property: If the check box is visible.

**Returns:**

The current value. Default is true.

---

## setLeafCheckVisible

```
public void setLeafCheckVisible(boolean b)
```

Property: If the check box is visible.

**Parameters:**

b - The new value. Default is true.

---

## isFolderCheckVisible

```
public boolean isFolderCheckVisible()
```

Property: If the check box is visible.

**Returns:**

The current value. Default is true.

---

## setFolderCheckVisible

```
public void setFolderCheckVisible(boolean b)
```

Property: If the check box is visible.

**Parameters:**

b - The new value. Default is true.

---

## getLeafRowHeight

```
public int getLeafRowHeight()
```

Property: The height in pixels for every row in the tree.

**Returns:**

The current value. Default is 17.

---

## setLeafRowHeight

```
public void setLeafRowHeight(int height)
```

Property: The height in pixels for every row in the tree.

**Parameters:**

height - The new value. Default is 17.

---

## getFolderRowHeight

```
public int getFolderRowHeight()
```

---

(continued from last page)

Property: The height in pixels for every row in the tree.

**Returns:**

The current value. Default is 17.

---

**setFolderRowHeight**

```
public void setFolderRowHeight(int height)
```

Property: The height in pixels for every row in the tree.

**Parameters:**

`height` - The new value. Default is 17.

---

**getShowsRootHandles**

```
public boolean getShowsRootHandles()
```

Property: If the root handles should be visible.

**Returns:**

The current value. Default is true.

---

**setShowsRootHandles**

```
public void setShowsRootHandles(boolean b)
```

Property: If the root handles should be visible.

**Parameters:**

`b` - The new value. Default is true.

---

**getLeafCheckShape**

```
public java.awt.Shape getLeafCheckShape()
```

Property: The shape outline of the check box.

**Returns:**

The current value. Default is new `RoundRectangle(0, 0, 14, 14, 6, 6)`.

---

**setLeafCheckShape**

```
public void setLeafCheckShape(java.awt.Shape s)
```

Property: The shape outline of the check box.

**Parameters:**

`s` - The new value. Default is new `RoundRectangle(0, 0, 14, 14, 6, 6)`.

---

**getFolderCheckShape**

```
public java.awt.Shape getFolderCheckShape()
```

Property: The shape outline of the check box.

**Returns:**

The current value. Default is new `RoundRectangle(0, 0, 14, 14, 6, 6)`.

---

---

## setFolderCheckShape

```
public void setFolderCheckShape(java.awt.Shape s)
```

Property: The shape outline of the check box.

**Parameters:**

s - The new value. Default is new `RoundRectangle(0, 0, 14, 14, 6, 6)`.

---

## getLeafCheckIconPlaceRect

```
public PlaceRect getLeafCheckIconPlaceRect()
```

Property: Where in the check shape the icon of the actual check should be placed.

**Returns:**

The current value. Default is new `AlignRect(new AtFraction(0.5f), new AtFraction(0.5f))`.

---

## setLeafCheckIconPlaceRect

```
public void setLeafCheckIconPlaceRect(PlaceRect r)
```

Property: Where in the check shape the icon of the actual check should be placed.

**Parameters:**

r - The new value. Default is new `AlignRect(new AtFraction(0.5f), new AtFraction(0.5f))`.

---

## getFolderCheckIconPlaceRect

```
public PlaceRect getFolderCheckIconPlaceRect()
```

Property: Where in the check shape the icon of the actual check should be placed.

**Returns:**

The current value. Default is new `AlignRect(new AtFraction(0.5f), new AtFraction(0.5f))`.

---

## setFolderCheckIconPlaceRect

```
public void setFolderCheckIconPlaceRect(PlaceRect r)
```

Property: Where in the check shape the icon of the actual check should be placed.

**Parameters:**

r - The new value. Default is new `AlignRect(new AtFraction(0.5f), new AtFraction(0.5f))`.

---

## getLeafCheckPlaceRect

```
public PlaceRect getLeafCheckPlaceRect()
```

Property: Where the check outline should be placed within the node.

**Returns:**

The current value. Default is new `AbsRect(new Insets(1, 1, 1, 1))`.

---

## setLeafCheckPlaceRect

```
public void setLeafCheckPlaceRect(PlaceRect r)
```

---

---

(continued from last page)

Property: Where the check outline should be placed within the node.

**Parameters:**

r - The new value. Default is `new AbsRect(new Insets(1, 1, 1, 1))`.

---

## getFolderCheckPlaceRect

```
public PlaceRect getFolderCheckPlaceRect()
```

Property: Where the check outline should be placed within the node.

**Returns:**

The current value. Default is `new AbsRect(new Insets(1, 1, 1, 1))`.

---

## setFolderCheckPlaceRect

```
public void setFolderCheckPlaceRect(PlaceRect r)
```

Property: Where the check outline should be placed within the node.

**Parameters:**

r - The new value. Default is `new AbsRect(new Insets(1, 1, 1, 1))`.

---

## getLeafCheckWidth

```
public int getLeafCheckWidth()
```

Property: The width in pixels for the check.

**Returns:**

The current value. Default is 17.

---

## setLeafCheckWidth

```
public void setLeafCheckWidth(int w)
```

Property: The width in pixels for the check.

**Parameters:**

w - The new value. Default is 17.

---

## getFolderCheckWidth

```
public int getFolderCheckWidth()
```

Property: The width in pixels for the check.

**Returns:**

The current value. Default is 17.

---

## setFolderCheckWidth

```
public void setFolderCheckWidth(int w)
```

Property: The width in pixels for the check.

**Parameters:**

w - The new value. Default is 17.

---

## getFolderIconTextGap

```
public int getFolderIconTextGap()
```

Property: The gap in pixels between the icon and text.

**Returns:**

The current value. Default is 3.

---

## setFolderIconTextGap

```
public void setFolderIconTextGap(int gap)
```

Property: The gap in pixels between the icon and text.

**Parameters:**

gap - The new value. Default is 3.

---

## getLeafIconTextGap

```
public int getLeafIconTextGap()
```

Property: The gap in pixels between the icon and text.

**Returns:**

The current value. Default is 3.

---

## setLeafIconTextGap

```
public void setLeafIconTextGap(int gap)
```

Property: The gap in pixels between the icon and text.

**Parameters:**

gap - The new value. Default is 3.

---

## getAntiAliasHint

```
public int getAntiAliasHint()
```

Property: The anti alias hint for the label text.

**Returns:**

The current value. Default is AA\_HINT\_PLATFORM.

---

## setAntiAliasHint

```
public void setAntiAliasHint(int hint)
```

Property: The anti alias hint for the label text.

**Parameters:**

hint - The new value. Default is AA\_HINT\_PLATFORM.

---

## getFolderBackground

```
public java.awt.Paint getFolderBackground()
```

---

---

(continued from last page)

Property: The anti alias hint for the label text.

**Returns:**

The current value. Default is AA\_HINT\_PLATFORM.

---

## setFolderBackground

```
public void setFolderBackground(java.awt.Paint p)
```

Property: The anti alias hint for the label text.

**Parameters:**

p - The new value. Default is AA\_HINT\_PLATFORM.

---

## getFolderFont

```
public java.awt.Font getFolderFont()
```

Property: The font used to draw the label.

**Returns:**

The current value. Default is the font for the bean itself. Never null.

---

## setFolderFont

```
public void setFolderFont(java.awt.Font f)
```

Property: The font used to draw the label.

**Parameters:**

f - The new value. If null set to the font for the bean itself.

---

## getFolderForeground

```
public java.awt.Color getFolderForeground()
```

Property: The foreground color used to draw the label.

**Returns:**

The current value. Default is the foreground for the bean itself. Never null.

---

## setFolderForeground

```
public void setFolderForeground(java.awt.Color c)
```

Property: The foreground color used to draw the label.

**Parameters:**

c - The new value. If null set to the foreground for the bean itself.

---

## getFolderCheckCursor

```
public java.awt.Cursor getFolderCheckCursor()
```

Property: The cursor for when the mouse is over the check.

**Returns:**

The current value. Default is null.

---

## setFolderCheckCursor

```
public void setFolderCheckCursor(java.awt.Cursor cur)
```

Property: The cursor for when the mouse is over the check.

**Parameters:**

cur - The new value. Default is null.

---

## getFolderCheckHalfSelectedIcon

```
public XtdImage getFolderCheckHalfSelectedIcon()
```

Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.

**Returns:**

The current value. Default is HALF\_CHECK\_IMG (private)

---

## setFolderCheckHalfSelectedIcon

```
public void setFolderCheckHalfSelectedIcon(XtdImage image)
```

Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.

**Parameters:**

image - The new value. Default is HALF\_CHECK\_IMG (private)

---

## getFolderCheckMouseOverBackground

```
public java.awt.Paint getFolderCheckMouseOverBackground()
```

Property: The paint to use for the background of the check when the mouse is hovering over it.

**Returns:**

The current value. Default is null which means no mouse over effect.

---

## setFolderCheckMouseOverBackground

```
public void setFolderCheckMouseOverBackground(java.awt.Paint p)
```

Property: The paint to use for the background of the check when the mouse is hovering over it.

**Parameters:**

p - The new value. Default is null which means no mouse over effect.

---

## getFolderCheckMouseOverForeground

```
public java.awt.Paint getFolderCheckMouseOverForeground()
```

Property: The paint to use for the foreground of the check when the mouse is hovering over it.

**Returns:**

The current value. Default is null which means no mouse over effect.

---

## setFolderCheckMouseOverForeground

```
public void setFolderCheckMouseOverForeground(java.awt.Paint p)
```

---

---

(continued from last page)

Property: The paint to use for the foreground of the check when the mouse is hovering over it.

**Parameters:**

p - The new value. Default is null which means no mouse over effect.

---

**getLeafCheckForeground**

```
public java.awt.Paint getLeafCheckForeground()
```

Property: The paint to use for the foreground of the check.

**Returns:**

The current value. Default is the foreground of the bean.

---

**setLeafCheckForeground**

```
public void setLeafCheckForeground(java.awt.Paint p)
```

Property: The paint to use for the foreground of the check.

**Parameters:**

p - The new value. If null it is reset to the foreground of the bean.

---

**getFolderCheckForeground**

```
public java.awt.Paint getFolderCheckForeground()
```

Property: The paint to use for the foreground of the check.

**Returns:**

The current value. Default is the foreground of the bean.

---

**setFolderCheckForeground**

```
public void setFolderCheckForeground(java.awt.Paint p)
```

Property: The paint to use for the foreground of the check.

**Parameters:**

p - The new value. If null it is reset to the foreground of the bean.

---

**getLeafCheckBackground**

```
public java.awt.Paint getLeafCheckBackground()
```

Property: The paint to use for the background of the check.

**Returns:**

The current value. Default is the background of the bean.

---

**setLeafCheckBackground**

```
public void setLeafCheckBackground(java.awt.Paint p)
```

Property: The paint to use for the background of the check.

**Parameters:**

p - The new value. If null it is reset to the background of the bean.

---

## getFolderCheckBackground

```
public java.awt.Paint getFolderCheckBackground()
```

Property: The paint to use for the background of the check.

**Returns:**

The current value. Default is the background of the bean.

---

## setFolderCheckBackground

```
public void setFolderCheckBackground(java.awt.Paint p)
```

Property: The paint to use for the background of the check.

**Parameters:**

p - The new value. If null it is reset to the background of the bean.

---

## isFolderCheckSelectable

```
public boolean isFolderCheckSelectable()
```

Property: If the check can be selected.

**Returns:**

The current value. Default is true.

---

## setFolderCheckSelectable

```
public void setFolderCheckSelectable(boolean b)
```

Property: If the check can be selected.

**Parameters:**

b - The new value. Default is true.

---

## getFolderCheckSelectedIcon

```
public XtdImage getFolderCheckSelectedIcon()
```

Property: The selected check icon.

**Returns:**

The current value. Default is CHECK\_IMG

---

## setFolderCheckSelectedIcon

```
public void setFolderCheckSelectedIcon(XtdImage image)
```

Property: The selected check icon.

**Parameters:**

image - The new value. Default is CHECK\_IMG

---

## getFolderLabelCursor

```
public java.awt.Cursor getFolderLabelCursor()
```

---

---

(continued from last page)

Property: The hover mouse cursor over the label.

**Returns:**

The current value. Default is `null`.

---

## setFolderLabelCursor

```
public void setFolderLabelCursor(java.awt.Cursor cur)
```

Property: The hover mouse cursor over the label.

**Parameters:**

`cur` - The new value. Default is `null`.

---

## isFolderLabelSelectable

```
public boolean isFolderLabelSelectable()
```

Property: If the label should be selectable (press-able)

**Returns:**

The current value. Default is `false`.

---

## setFolderLabelSelectable

```
public void setFolderLabelSelectable(boolean b)
```

Property: If the label should be selectable (press-able)

**Parameters:**

`b` - The new value. Default is `false`.

---

## getFolderMouseOverBackground

```
public java.awt.Paint getFolderMouseOverBackground()
```

Property: Background paint when the mouse is hovering over the node.

**Returns:**

The current value. Default is `null`.

---

## setFolderMouseOverBackground

```
public void setFolderMouseOverBackground(java.awt.Paint p)
```

Property: Background paint when the mouse is hovering over the node.

**Parameters:**

`p` - The new value. Default is `null`.

---

## getFolderMouseOverFont

```
public java.awt.Font getFolderMouseOverFont()
```

Property: The font when the mouse is hovering over the node.

**Returns:**

The current value. Default is `null` which means no special font.

---

## setFolderMouseOverFont

```
public void setFolderMouseOverFont(java.awt.Font f)
```

Property: The font when the mouse is hovering over the node.

**Parameters:**

f - The new value. Default is null which means no special font.

---

## getFolderMouseOverForeground

```
public java.awt.Color getFolderMouseOverForeground()
```

Property: Foreground paint when the mouse is hovering over the node.

**Returns:**

The current value. Default is null.

---

## setFolderMouseOverForeground

```
public void setFolderMouseOverForeground(java.awt.Color c)
```

Property: Foreground paint when the mouse is hovering over the node.

**Parameters:**

c - The new value. Default is null.

---

## getFolderMouseOverUnderline

```
public Integer getFolderMouseOverUnderline()
```

Property: The underline width.

**Returns:**

The current value. Default is null.

---

## setFolderMouseOverUnderline

```
public void setFolderMouseOverUnderline(Integer b)
```

Property: The underline width.

**Parameters:**

b - The new value. Default is null.

---

## getFolderSelectedBackground

```
public java.awt.Paint getFolderSelectedBackground()
```

Property: The background if the node label is selected.

**Returns:**

The current value. Default is null which means same as when not selected.

---

## setFolderSelectedBackground

```
public void setFolderSelectedBackground(java.awt.Paint p)
```

---

---

(continued from last page)

Property: The background if the node label is selected.

**Parameters:**

p - The new value. Default is null which means same as when not selected.

---

## getFolderSelectedFont

```
public java.awt.Font getFolderSelectedFont()
```

Property: The font if the node label is selected.

**Returns:**

The current value. Default is null which means same as when not selected.

---

## setFolderSelectedFont

```
public void setFolderSelectedFont(java.awt.Font f)
```

Property: The font if the node label is selected.

**Parameters:**

f - The new value. Default is null which means same as when not selected.

---

## getFolderSelectedForeground

```
public java.awt.Color getFolderSelectedForeground()
```

Property: The foreground if the node label is selected.

**Returns:**

The current value. Default is null which means same as when not selected.

---

## setFolderSelectedForeground

```
public void setFolderSelectedForeground(java.awt.Color c)
```

Property: The foreground if the node label is selected.

**Parameters:**

c - The new value. Default is null which means same as when not selected.

---

## getFolderSelectedUnderline

```
public Integer getFolderSelectedUnderline()
```

Property: The underline width if the node label is selected.

**Returns:**

The current value. Default is null which means same as when not selected.

---

## setFolderSelectedUnderline

```
public void setFolderSelectedUnderline(Integer width)
```

Property: The underline width if the node label is selected.

**Parameters:**

width - The new value. Default is null which means same as when not selected.

---

## getLeafUnderline

```
public Integer getLeafUnderline()
```

Property: The underline width in pixels.

**Returns:**

The current value. Default is `null` which means no underline.

---

## setLeafUnderline

```
public void setLeafUnderline(Integer b)
```

Property: The underline width in pixels.

**Parameters:**

`b` - The current value. Default is `null` which means no underline.

---

## getFolderUnderline

```
public Integer getFolderUnderline()
```

Property: The underline width in pixels.

**Returns:**

The current value. Default is `null` which means no underline.

---

## setFolderUnderline

```
public void setFolderUnderline(Integer b)
```

Property: The underline width in pixels.

**Parameters:**

`b` - The current value. Default is `null` which means no underline.

---

## getLeafBackground

```
public java.awt.Paint getLeafBackground()
```

Property: The background paint of the node.

**Returns:**

The current value. Default is `null` which means no background.

---

## setLeafBackground

```
public void setLeafBackground(java.awt.Paint p)
```

Property: The background paint of the node.

**Parameters:**

`p` - The new value. Default is `null` which means no background.

---

## getLeafFont

```
public java.awt.Font getLeafFont()
```

---

(continued from last page)

Property: The font of the label.

**Returns:**

The current value. Default is same as for the bean.

---

**setFont**

```
public void setFont(java.awt.Font f)
```

Property: The font of the label.

**Parameters:**

f - The new value. null reset it to the same as for the bean.

---

**getLeafForeground**

```
public java.awt.Color getLeafForeground()
```

Property: The foreground of the label.

**Returns:**

The current value. Default is same as for the bean.

---

**setLeafForeground**

```
public void setLeafForeground(java.awt.Color c)
```

Property: The foreground of the label.

**Parameters:**

c - The new value. null reset it to the same as for the bean.

---

**getLeafCheckCursor**

```
public java.awt.Cursor getLeafCheckCursor()
```

Property: The cursor set when the mouse is hovering over the check.

**Returns:**

The current value. Default is null.

---

**setLeafCheckCursor**

```
public void setLeafCheckCursor(java.awt.Cursor cur)
```

Property: The cursor set when the mouse is hovering over the check.

**Parameters:**

cur - The new value. Default is null.

---

**getLeafCheckHalfSelectedIcon**

```
public XtdImage getLeafCheckHalfSelectedIcon()
```

Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.

**Returns:**

The current value. Default is HALF\_CHECK\_IMG (private)

---

## setLeafCheckHalfSelectedIcon

```
public void setLeafCheckHalfSelectedIcon(XtdImage image)
```

Property: The icon for when a check is "half" selected, which means that some children are checked and some are not.

**Parameters:**

image - The new value. Default is HALF\_CHECK\_IMG (private)

---

## getLeafCheckMouseOverBackground

```
public java.awt.Paint getLeafCheckMouseOverBackground()
```

Property: The background for when the mouse is hovering over the check.

**Returns:**

The current value. Default is null.

---

## setLeafCheckMouseOverBackground

```
public void setLeafCheckMouseOverBackground(java.awt.Paint p)
```

Property: The background for when the mouse is hovering over the check.

**Parameters:**

p - The new value. Default is null.

---

## getLeafCheckMouseOverForeground

```
public java.awt.Paint getLeafCheckMouseOverForeground()
```

Property: The foreground for when the mouse is hovering over the check.

**Returns:**

The current value. Default is null.

---

## setLeafCheckMouseOverForeground

```
public void setLeafCheckMouseOverForeground(java.awt.Paint p)
```

Property: The foreground for when the mouse is hovering over the check.

**Parameters:**

p - The new value. Default is null.

---

## isLeafCheckSelectable

```
public boolean isLeafCheckSelectable()
```

Property: If the check should be selectable.

**Returns:**

The current value. Default is true.

---

## setLeafCheckSelectable

```
public void setLeafCheckSelectable(boolean b)
```

---

---

(continued from last page)

Property: If the check should be selectable.

**Parameters:**

b - The new value. Default is true.

---

**getLeafCheckSelectedIcon**

```
public XtdImage getLeafCheckSelectedIcon()
```

Property: The icon/image for when the check is selected.

**Returns:**

The current value. Default is CHECK\_IMG (private)

---

**setLeafCheckSelectedIcon**

```
public void setLeafCheckSelectedIcon(XtdImage image)
```

Property: The icon/image for when the check is selected.

**Parameters:**

image - The new value. Default is CHECK\_IMG (private)

---

**getLeafLabelCursor**

```
public java.awt.Cursor getLeafLabelCursor()
```

Property: The cursor for when the mouse is hovering over the label.

**Returns:**

The current value. Default is null.

---

**setLeafLabelCursor**

```
public void setLeafLabelCursor(java.awt.Cursor cur)
```

Property: The cursor for when the mouse is hovering over the label.

**Parameters:**

cur - The new value. Default is null.

---

**isLeafLabelSelectable**

```
public boolean isLeafLabelSelectable()
```

Property: If the label should be selectable.

**Returns:**

The current value. Default is false.

---

**setLeafLabelSelectable**

```
public void setLeafLabelSelectable(boolean b)
```

Property: If the label should be selectable.

**Parameters:**

b - The new value. Default is false.

---

## getLeafMouseOverBackground

```
public java.awt.Paint getLeafMouseOverBackground()
```

Property: The background for when the mouse is hovering over the label.

**Returns:**

The current value. Default is null.

---

## setLeafMouseOverBackground

```
public void setLeafMouseOverBackground(java.awt.Paint p)
```

Property: The background for when the mouse is hovering over the label.

**Parameters:**

p - The new value. Default is null.

---

## getLeafMouseOverFont

```
public java.awt.Font getLeafMouseOverFont()
```

Property: The font for when the mouse is hovering over the label.

**Returns:**

The current value. Default is null.

---

## setLeafMouseOverFont

```
public void setLeafMouseOverFont(java.awt.Font f)
```

Property: The font for when the mouse is hovering over the label.

**Parameters:**

f - The new value. Default is null.

---

## getLeafMouseOverForeground

```
public java.awt.Color getLeafMouseOverForeground()
```

Property: The foreground for when the mouse is hovering over the label.

**Returns:**

The current value. Default is null.

---

## setLeafMouseOverForeground

```
public void setLeafMouseOverForeground(java.awt.Color c)
```

Property: The foreground for when the mouse is hovering over the label.

**Parameters:**

c - The new value. Default is null.

---

## getLeafMouseOverUnderline

```
public Integer getLeafMouseOverUnderline()
```

---

(continued from last page)

Property: The underline in pixels for when the mouse is hovering over the label.

**Returns:**

The current value. Default is `null`.

---

**setLeafMouseOverUnderline**

```
public void setLeafMouseOverUnderline(Integer b)
```

Property: The underline in pixels for when the mouse is hovering over the label.

**Parameters:**

`b` - The new value. Default is `null`.

---

**getLeafSelectedBackground**

```
public java.awt.Paint getLeafSelectedBackground()
```

Property: The background if the node label is selected.

**Returns:**

The current value. Default is `null` which means same as when not selected.

---

**setLeafSelectedBackground**

```
public void setLeafSelectedBackground(java.awt.Paint p)
```

Property: The background if the node label is selected.

**Parameters:**

`p` - The new value. Default is `null` which means same as when not selected.

---

**getLeafSelectedFont**

```
public java.awt.Font getLeafSelectedFont()
```

Property: The font if the node label is selected.

**Returns:**

The current value. Default is `null` which means same as when not selected.

---

**setLeafSelectedFont**

```
public void setLeafSelectedFont(java.awt.Font f)
```

Property: The font if the node label is selected.

**Parameters:**

`f` - The new value. Default is `null` which means same as when not selected.

---

**getLeafSelectedForeground**

```
public java.awt.Color getLeafSelectedForeground()
```

Property: The foreground if the node label is selected.

**Returns:**

The current value. Default is `null` which means same as when not selected.

---

## setLeafSelectedForeground

```
public void setLeafSelectedForeground(java.awt.Color c)
```

Property: The foreground if the node label is selected.

**Parameters:**

c - The new value. Default is null which means same as when not selected.

---

## getLeafSelectedUnderline

```
public Integer getLeafSelectedUnderline()
```

Property: The underline in pixels if the node label is selected.

**Returns:**

The current value. Default is null which means same as when not selected.

---

## setLeafSelectedUnderline

```
public void setLeafSelectedUnderline(Integer width)
```

Property: The underline in pixels if the node label is selected.

**Parameters:**

width - The new value. Default is null which means same as when not selected.

---

## isRootVisible

```
public boolean isRootVisible()
```

Property: If the root node should be visible.

**Returns:**

The old value. Default is false.

---

## setRootVisible

```
public void setRootVisible(boolean b)
```

Property: If the root node should be visible.

**Parameters:**

b - The new value. Default is false.

---

## revalidateNodes

```
public void revalidateNodes(Object fromCatId,  
    boolean keepExpanded)
```

Revalidate the nodes starting from fromCatId.

**Parameters:**

fromCatId - The category id to start from. Not the Node or Category, but the ID.  
keepExpanded - If the tree should have the same expanded state after the call.

---

(continued from last page)

---

## getRootCategoryId

```
public Object getRootCategoryId()
```

Returns the category ID of the root node.

**Returns:**

The category ID of the root node. `null` if the root node is the real root in the category depository.

---

## setRootCategoryId

```
public void setRootCategoryId(Object catIDRoot)
```

Sets the category ID of the root node.

**Parameters:**

`catIDRoot` - The category ID of the root node. `null` if the root node should be the real root in the category depository.

---

## getCheckedState

```
public static Boolean getCheckedState(PropertyKey key,  
    Category cat)
```

Returns the checked state of a category. `null` means determinate because the category has sub categories where some are check and some are not checked. `Boolean.TRUE` means that this and all sub categories are selected. `Boolean.FALSE` means that this and all sub categories are un-selected.

Categories that has sub-categories does not maintain checked state. Their state are dependant on the state of all sub-category leaves.

**Parameters:**

`key` - The key that is used to get the checked state from the Category. See [getCheckSelectedKey\(\)](#)  
`cat` - The category to check the state for.

**Returns:**

The state of the category and sub categories.

---

## setCheckedState

```
public static void setCheckedState(PropertyKey key,  
    Category cat,  
    boolean b)
```

Set the selected state for the category. If a filter the state will propagate to all children.

**Parameters:**

`key` - The key that is used to get the checked state from the Category. See [getCheckSelectedKey\(\)](#)  
`cat` - The category to set the checked state on.  
`b` - The new state of the check.

---

## toggleCheckedState

```
public static void toggleCheckedState(PropertyKey key,  
    Category cat)
```

Toggles the checked state on the category. If the category is a folder the folder and its children will be set to "selected" if the folder itself or one or its children are "unselected". Otherwise the category tree will be "unselected".

**Parameters:**

`key` - The key that is used to get the checked state from the Category. See [getCheckSelectedKey\(\)](#)

---

(continued from last page)

cat - The category to toggle the selected state on.

---

## interactionOccured

```
public void interactionOccured(InteractionEvent e)
```

---

## addInteractionListener

```
public void addInteractionListener(InteractionListener l)
```

Adds a listener that listens to `InteractionEvents`. Interaction events are normally fired by the `Interaction/Interactor/AbstractInteractionBroker` framework, used for instance by the `com.miginfocom.ashape.shapes.AShape` framework.

The interaction events that is fired is when the user presses a check or the label in the tree.

### Parameters:

1 - The listener to add

### See Also:

[CHECK\\_CLICKED](#)

[LABEL\\_CLICKED](#)

---

## addInteractionListener

```
public void addInteractionListener(InteractionListener l,  
    boolean asWeakRef)
```

Adds a listener that listens to `InteractionEvents`. Interaction events are normally fired by the `Interaction/Interactor/AbstractInteractionBroker` framework, used for instance by the `com.miginfocom.ashape.shapes.AShape` framework.

The interaction events that is fired is when the user presses a check or the label in the tree.

### Parameters:

1 - The listener to add

`asWeakRef` - If the listener should be added wrapped in a `java.lang.ref.WeakReference`. This defers memory leak problems since the garbage collector can collect the listener if it is only referenced from this list.

**Note!** This (weak reference) can not be used with listeners that doesn't have another real (a.k.a Strong) reference to it, as for instance an anonymous inner class. If one such listener is added it will be removed almost immediately by the garbage collector.

### See Also:

[CHECK\\_CLICKED](#)

[LABEL\\_CLICKED](#)

---

## removeInteractionListener

```
public void removeInteractionListener(InteractionListener l)
```

Removes the listener if it is added.

### Parameters:

1 - The listener to remove. If `null` nothing happens.

(continued from last page)

---

## isIgnoreInteractionEvents

```
public boolean isIgnoreInteractionEvents()
```

Returns if events are currently ignored.

**Returns:**

If events are currently ignored.

**See Also:**

[setIgnoreInteractionEvents\(boolean\)](#)

---

## setIgnoreInteractionEvents

```
public boolean setIgnoreInteractionEvents(boolean b)
```

Sets if events should be ignored, and thus not fired.

**Parameters:**

b - true turns off events

**Returns:**

The old state of this flag.

---

## getDecorators

```
public List getDecorators()
```

Returns a cloned list with the decorators currently installed in this tree.

**Returns:**

The decorators. Not null.

---

## setDecorators

```
public void setDecorators(Collection decorators)
```

Sets the decorators to use.

**Parameters:**

decorators - The decorators. Not null. List is cloned shallow for storage.

**See Also:**

[setDecorators\(java.util.Collection\)](#)

---

## addDecorators

```
public void addDecorators(Collection decorators)
```

Calls `addDecorator(com.miginfocom.calendar.decorators.Decorator)` for every element in the collection.

**Parameters:**

decorators - The decorators. Not null.

**See Also:**

[addDecorators\(java.util.Collection\)](#)

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---

## sortDecorators

```
public void sortDecorators()
```

Resort the decorators that this tree handles. This is normally only needed if any of the decorators has changed its layer outside the control of this tree.

---

## addDecorator

```
public void addDecorator(Decorator decorator)
```

Adds a decorator. A manual repaint has to be issued to paint the decorator.

**Parameters:**

`decorator` - The decorator. Insertion order is maintained and decorations will be painted in this order.

**See Also:**

```
addDecorator(com.miginfocom.calendar.decorators.Decorator)
```

---

## removeDecorator

```
public void removeDecorator(Decorator decorator)
```

Removes a decorator. A manual repaint has to be issued to paint the decorator.

**Parameters:**

`decorator` - The decorator to be removed.

**See Also:**

```
removeDecorator(com.miginfocom.calendar.decorators.Decorator)
```

---

## removeDecorator

```
public boolean removeDecorator(Class type,  
    boolean inclSubClasses)
```

Removes the first decorator found with the class type `type`, including sub types if `inclSubClasses == true`.

**Parameters:**

`type` - The type. Not null.

`inclSubClasses` - If sub classes of `type` should be removed as well.

**Returns:**

If a decorator was removed.

---

## removeDecorators

```
public void removeDecorators()
```

Removes all decorators. Note that this also removes the self decorating decorators. You should probably add `com.miginfocom.calendar.datearea.DefaultDateArea.MultiSelectRectangleDecorator` and `com.miginfocom.calendar.datearea.DefaultDateArea.ActivityViewDecorator` again. Add an instance by:  

```
dateArea.addDecorator(dateArea.new ActivityViewDecorator(110));
```

**See Also:**

```
removeDecorators(java.util.Collection)
```

---

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## **removeDecorators**

```
public void removeDecorators(Collection decorators)
```

Removes all decorators

### **Parameters:**

`decorators` - The decorators to remove.

## com.miginfocom.beans Class DateAreaBean

```

java.lang.Object
  |
  +-DateAreaContainer
    |
    +-com.miginfocom.beans.DateAreaBean
  
```

public class **DateAreaBean**  
extends DateAreaContainer

An object that extends `com.miginfocom.calendar.datearea.DateAreaContainer` to provide some easy-to-use bean properties to accomodate for "VB-like" visual programming.

It will cover a big chunk of all use cases but not all. It is possible to use this bean's properties to configure some parts and then use the [getDefaultDateArea\(\)](#) to manually configure more advanced properties.

### Constructor Summary

public	<a href="#">DateAreaBean()</a>
--------	--------------------------------

### Method Summary

void	<a href="#">addActivityDragResizeListener</a> (ActivityDragResizeListener l) This call is transmitted to the <code>addActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListener)</code>
void	<a href="#">addActivityDragResizeListener</a> (ActivityDragResizeListener l, boolean asWeakRef) This call is transmitted to the <code>addActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListener, boolean)</code>
void	<a href="#">addActivityMoveListener</a> (ActivityMoveListener l) This call is transmitted to the <code>addActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener)</code>
void	<a href="#">addActivityMoveListener</a> (ActivityMoveListener l, boolean asWeakRef) This call is transmitted to the <code>addActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener, boolean)</code>
void	<a href="#">addDateChangeListener</a> (DateChangeListener l) This call is transmitted to the <code>addDateChangeListener(com.miginfocom.util.dates.DateChangeListener)</code>
void	<a href="#">addDateChangeListener</a> (DateChangeListener l, boolean asWeakRef) This call is transmitted to the <code>addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)</code>
void	<a href="#">addInteractionListener</a> (InteractionListener l) This call is transmitted to the <code>addInteractionListener(com.miginfocom.ashape.interaction.InteractionListener)</code>

void	<a href="#">addInteractionListener</a> (InteractionListener l, boolean asWeakRef) This call is transmitted to the <code>addInteractionListener(com.miginfocom.ashape.interaction.InteractionListener, boolean)</code>
void	<a href="#">addNotify</a> ()
GridDimensionLayout	<a href="#">createLayout</a> (Grid grid, int dimIx)
GridLineSpecification	<a href="#">createSpecification</a> (DateArea dateArea)
void	<a href="#">doLayout</a> ()
String	<a href="#">getActivityDepositoryContext</a> () Property: The context used as a key in the <code>com.miginfocom.calendar.activity.ActivityDepository</code> to get the activities that this date area should show.
ActivityLayout[]	<a href="#">getActivityLayouts</a> () Returns the currently installed <code>com.miginfocom.calendar.layout.ActivityLayouts</code> .
String	<a href="#">getActivityPaintContext</a> () Property: The default paint context that will be used to get an AShape to paint with.
java.awt.Paint	<a href="#">getBackgroundPaint</a> () Property: The background paint in the date area.
boolean	<a href="#">getCategoryAutoRevalidate</a> () Property: If the categories in the <code>CategoryDepository</code> changes the date area will revalidate itself if there is a category root set.
<a href="#">CategoryHeaderBean</a>	<a href="#">getCategoryHeader</a> () Returns the one and only category header bean.
Category	<a href="#">getCategoryRoot</a> () Property: The category from the <code>com.miginfocom.calendar.category.CategoryDepository</code> that will serve as the root for this category header.
Object[]	<a href="#">getCategoryRootIDs</a> () Property: The category IDs from the <code>com.miginfocom.calendar.category.CategoryDepository</code> that will serve as the root(s) for this category header.
boolean	<a href="#">getCategoryShowRoot</a> () Property: If the root category set with <code>setCategoryRoot(com.miginfocom.calendar.category.Category)</code> should be shown or if its children should be shown in the first level.
javax.swing.border.Border	<a href="#">getDateAreaInnerBorder</a> () Property: The inner border around the date area.
javax.swing.border.Border	<a href="#">getDateAreaOuterBorder</a> () Property: The outer border around the date area.
DefaultDateArea	<a href="#">getDefaultDateArea</a> ()

<a href="#">DemoDataBean</a>	<a href="#">getDemoDataBean()</a> Property: A reference to a demo data bean that creates demo data for this date area.
java.awt.Paint	<a href="#">getDividerPaint()</a> Property: The paint used to draw separator lines between some date ranges, for instance months.
int	<a href="#">getDividerRangeType()</a> Property: The type of the divider range (e.g. day, week, month).
<a href="#">DateHeaderBean</a>	<a href="#">getEastDateHeader()</a> Returns the date header that is to the right the date area.
java.awt.Paint	<a href="#">getEvenBoundaryPaint()</a> Property: The paint used to fill all even (0, 2, 4...) date ranges of the date area.
int	<a href="#">getEvenRangeType()</a> Property: The date range type (i.e.
int	<a href="#">getEvenRangeTypeCount()</a> Property: How many of <a href="#">getEvenRangeType()</a> that should be bunched up and be called as one.
GridLineException[]	<a href="#">getHorizontalGridLineExceptions()</a> Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
java.awt.Paint	<a href="#">getHorizontalGridLinePaintEven()</a> Property: The paint used to draw the even (0, 2, 4...) horizontal grid lines.
java.awt.Paint	<a href="#">getHorizontalGridLinePaintOdd()</a> Property: The paint used to draw the odd (1, 3, 5...) horizontal grid lines.
XtdImage	<a href="#">getImage()</a> Property: The background or foreground image in the date area.
PlaceRect	<a href="#">getImagePlaceRect()</a> Property: How the image should be placed relative to the bounds of the date area.
boolean	<a href="#">getImageTiling()</a> Property: If the image should be tiled within the bounds.
AtRefRangeNumber	<a href="#">getLabelAlignX()</a> Property: The horizontal alignment the label should have within the bounds denoted by the PlaceRact (setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)).
AtRefRangeNumber	<a href="#">getLabelAlignY()</a> Property: The vertical alignment the label should have within the bounds denoted by the PlaceRact (setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)).
int	<a href="#">getLabelAntiAlias()</a> Property: The anti aliasing hint used when drawing the label.
java.awt.Paint	<a href="#">getLabelBackground()</a> Property: The java.awt.Paint used to draw the background of the label.
javax.swing.border.Border	<a href="#">getLabelBorder()</a> Property: The border that is painted around the label.

int	<a href="#">getLabelCellModulo()</a> Property: This property make is possible to show every second or third (for instance) cell label instead if the default every one.
String	<a href="#">getLabelDateFormat()</a> Property: The date format that specifies the text that will be the label.
String	<a href="#">getLabelFirstDateFormat()</a> Property: Date format for the "first" of something, e.g. first day of the month.
int	<a href="#">getLabelFirstInField()</a> Property: If <code>getFirstDateFormat()</code> is !
java.awt.Font	<a href="#">getLabelFont()</a> Property: The font used to draw the label.
java.awt.Color	<a href="#">getLabelForeground()</a> Property: The paint that is used to draw the label.
java.awt.Dimension	<a href="#">getLabelMinimumCellSize()</a> Property: If the cell is smaller than this size, in any dimension, the label will not be drawn.
java.awt.Paint	<a href="#">getLabelNowBackground()</a> Property: The <code>java.awt.Paint</code> used to draw the background of the label for the cell that spans the current time.
javax.swing.border.Border	<a href="#">getLabelNowBorder()</a> Property: The border that is painted around the label for the cell that spans the current time.
String	<a href="#">getLabelNowDateFormat()</a> Property: The date format that specifies the text that will be the label for the cell that spans the current time.
java.awt.Font	<a href="#">getLabelNowFont()</a> Property: The font used to draw the label for the cell that spans the current time.
java.awt.Color	<a href="#">getLabelNowForeground()</a> Property: The paint that is used to draw the label for the cell that spans the current time.
Integer	<a href="#">getLabelNowRangeType()</a> Property: The range type to round the "now" date to.
PlaceRect	<a href="#">getLabelPlaceRect()</a> Property: Denotes the bounds that the label should get.
int	<a href="#">getLayerForActivities()</a> Property: The layer index for the decorator that paints the activities.
int	<a href="#">getLayerForDividers()</a> Property: The layer index for the decorator that paints the dividers between some date ranges.
int	<a href="#">getLayerForEvenFieldFill()</a> Property: The layer index for the decorator that paints the even date ranges.
int	<a href="#">getLayerForGridLines()</a> Property: The layer index for the decorator that paints the grid lines.

int	<a href="#">getLayerForImage()</a> Property: The layer index for the decorator that paints a background/foreground image in the date area.
int	<a href="#">getLayerForLabels()</a> Property: The layer index for the decorator that paints the labels in the cells.
int	<a href="#">getLayerForOccupied()</a> Property: The layer index for the decorator that decorates the parts of the cells that has an activity which date range spans that time.
int	<a href="#">getLayerForOddFill()</a> Property: The layer index for the decorator that paints the odd rows and/or columns.
int	<a href="#">getLayerForSelections()</a> Property: The layer index for the decorator that paints the mouse over, selected and temporary pressed selections in the grid.
boolean	<a href="#">getMouseOverActivitiesOntop()</a> Property: If Activities that have the mouse hovering over them should be painted on top of other activities.
boolean	<a href="#">getNoExpandedFolderGridLine()</a> Property: If the grid lines around a folded (collapsed) folder sub row should be merged to one.
<a href="#">DateHeaderBean</a>	<a href="#">getNorthDateHeader()</a> Returns the date header that is above the date area.
java.awt.Paint	<a href="#">getOccupiedBackgroundPaint()</a> Property: The background paint for the decoration where there's an activity which range overlaps.
boolean	<a href="#">getOccupiedMergeOverlapping()</a> Property: If occupied activity ranges that overlap should be combined (merged) before draing the occupied rects.
java.awt.Paint	<a href="#">getOccupiedNotBackgroundPaint()</a> Property: The background paint for the decoration where there's an activity which range DOESN'T overlap.
java.awt.Paint	<a href="#">getOccupiedNotOutlinePaint()</a> Property: The outline paint for the decoration where there's an activity which range DOESN'T overlap.
java.awt.Paint	<a href="#">getOccupiedOutlinePaint()</a> Property: The outline paint for the decoration where there's an activity which range overlap.
PlaceRect	<a href="#">getOccupiedPlaceRect()</a> Property: The placing of the rectangle that denoted the occupied/not occupied periods.
Integer	<a href="#">getOccupiedRoundToRangeType()</a> Property: If occupied ranges should be rounded to a range type (e.g. a day or hour).
java.awt.Paint	<a href="#">getOddColumnPaint()</a> Property: The paint to paint for all odd columns.
java.awt.Paint	<a href="#">getOddRowPaint()</a> Property: The paint to paint for all odd rows.

int	<a href="#">getPrimaryDimension()</a> What dimension time progresses if there was no wrapping.
int	<a href="#">getPrimaryDimensionCellType()</a> Returns the type of primDimCellSpanCount.
int	<a href="#">getPrimaryDimensionCellTypeCount()</a> Returns how may cells in the primary dimension.
GridLayoutProvider	<a href="#">getPrimaryDimensionLayout()</a> Property: The layout provider for the primary dimension for the grid.
GridLayoutProvider	<a href="#">getSecondaryDimensionLayout()</a> Property: The layout provider for the secondary dimension for the grid.
java.awt.Paint	<a href="#">getSelectablePaint()</a> Property: The paint used to fill the cells that are marked as selectable.
boolean	<a href="#">getSelectedActivitiesOntop()</a> Property: If Activites that are selected should be painted on top of other activities.
int	<a href="#">getSelectionBoundaryType()</a> Property: The type of date range (e.g. day, hour, week) that selectionw will be rounded to.
java.awt.Paint	<a href="#">getSelectionMouseOverPaint()</a> Property: The paint used to fill the cells that the mouse is over.
java.awt.Paint	<a href="#">getSelectionMousePressedPaint()</a> Property: The paint used to fill the cells that the is pressed over (e.g. temporary selection).
java.awt.Paint	<a href="#">getSelectionPaint()</a> Property: The paint used to fill the cells that are selected.
int	<a href="#">getSelectionType()</a> Property: The type of selection that can be done on the date area background.
long	<a href="#">getSnapToMillis()</a> Return what even millisecond to snap to when resizing and moving activities.
<a href="#">DateHeaderBean</a>	<a href="#">getSouthDateHeader()</a> Returns the date header that is below the date area.
SubRowCreator	<a href="#">getSubRowCreator()</a> Property: A custom <code>com.miginfocom.calendar.grid.SubRowCreator</code> that can be set to create all sub rows for the date area bean.
java.awt.Paint	<a href="#">getSubRowGridLinePaint()</a> Property: The paint used to draw sub row divider grid lines.
GridLineException[]	<a href="#">getVerticalGridLineExceptions()</a> Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
java.awt.Paint	<a href="#">getVerticalGridLinePaintEven()</a> Property: The paint used to draw the even (0, 2, 4...) vertical grid lines.
java.awt.Paint	<a href="#">getVerticalGridLinePaintOdd()</a> Property: The paint used to draw the odd (1, 3, 5...) vertical grid lines.

<a href="#">DateHeaderBean</a>	<a href="#">getWestDateHeader()</a> Returns the date header that is to the left the date area.
String	<a href="#">getVisibleDateRangeString()</a> Property: A string representing the visual date range of the exact form: "yyyyMMdd'T'HHmmssSSS" - 'yyyyMMdd'T'HHmmssSSS" without the ' of course.
Integer	<a href="#">getWrapBoundary()</a> Returns a which boundary (e.g. week, day) that the grid should wrap.
int	<a href="#">getWrapBoundaryCount()</a> Returns the number of wrapBoundary before wrapping.
boolean	<a href="#">isDesignTimeHelp()</a> Property: If true draws an information message in "design time".
boolean	<a href="#">isShowNoFitIcon()</a> Property: If the little icon that shows that not all activities have fitted within a date range (normally a day).
void	<a href="#">paint(java.awt.Graphics g)</a>
void	<a href="#">removeActivityDragResizeListener(ActivityDragResizeListener l)</a> This call is transmitted to the <code>removeActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListener)</code>
void	<a href="#">removeActivityMoveListener(ActivityMoveListener l)</a> This call is transmitted to the <code>removeActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener)</code>
void	<a href="#">removeDateChangeListener(DateChangeListener l)</a> This call is transmitted to the <code>removeDateChangeListener(com.miginfocom.util.dates.DateChangeListener)</code>
void	<a href="#">removeInteractionListener(InteractionListener l)</a> This call is transmitted to the <code>removeInteractionListener(com.miginfocom.ashape.interaction.InteractionListener)</code> .
void	<a href="#">removeNotify()</a>
void	<a href="#">revalidateGrid()</a> Recreates the grid in the date area
void	<a href="#">setActivityDepositoryContext(String context)</a> Property: The context used as a key in the <code>com.miginfocom.calendar.activity.ActivityDepository</code> to get the activities that this date area should show.
void	<a href="#">setActivityLayouts(ActivityLayout[] layouts)</a> Sets the <code>com.miginfocom.calendar.layout.ActivityLayouts</code> .
void	<a href="#">setActivityPaintContext(String ctx)</a> Property: The default paint context that will be used to get an AShape to paint with.
void	<a href="#">setBackgroundPaint(java.awt.Paint p)</a> Property: The background paint in the date area.

void	<a href="#">setCategoryAutoRevalidate</a> (boolean b) Property: If the categories in the <code>CategoryDepository</code> changes the date area will revalidate itself if there is a category root set.
void	<a href="#">setCategoryHeader</a> ( <a href="#">CategoryHeaderBean</a> header) Sets or disables the category header.
void	<a href="#">setCategoryRoot</a> (Category root) Property: The category from the <code>com.miginfocom.calendar.category.CategoryDepository</code> that will serve as the root for this category header.
void	<a href="#">setCategoryRootIDs</a> (Object[] rootIDs) Property: The category IDs from the <code>com.miginfocom.calendar.category.CategoryDepository</code> that will serve as the root(s) for this category header.
void	<a href="#">setCategoryShowRoot</a> (boolean b) Property: If the root category set with <code>setCategoryRoot(com.miginfocom.calendar.category.Category)</code> should be shown or if its children should be shown in the first level.
void	<a href="#">setDateAreaInnerBorder</a> ( <code>javax.swing.border.Border</code> b) Property: The inner border around the date area.
void	<a href="#">setDateAreaOuterBorder</a> ( <code>javax.swing.border.Border</code> b) Property: The outer border around the date area.
void	<a href="#">setDemoDataBean</a> ( <a href="#">DemoDataBean</a> b) Property: A reference to a demo data bean that creates demo data for this date area.
void	<a href="#">setDesignTimeHelp</a> (boolean b) Property: If true draws an information message in "design time".
void	<a href="#">setDividerPaint</a> ( <code>java.awt.Paint</code> paint) Property: The paint used to draw separator lines between some date ranges, for instance months.
void	<a href="#">setDividerRangeType</a> (int rangeType) Property: The type of the divider range (e.g. day, week, month).
void	<a href="#">setEastDateHeader</a> ( <a href="#">DateHeaderBean</a> header) Sets the date header that will be to the right the date area.
void	<a href="#">setEvenBoundaryPaint</a> ( <code>java.awt.Paint</code> paint) Property: The paint used to fill all even (0, 2, 4...) date ranges of the date area.
void	<a href="#">setEvenRangeType</a> (int rangeType) Property: The date range type (i.e.
void	<a href="#">setEvenRangeTypeCount</a> (int count) Property: How many of <a href="#">getEvenRangeType()</a> that should be bunched up and be called as one.
void	<a href="#">setHorizontalGridLineExceptions</a> ( <code>GridLineException[]</code> exceptions) Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
void	<a href="#">setHorizontalGridLinePaintEven</a> ( <code>java.awt.Paint</code> paint) Property: The paint used to draw the even (0, 2, 4...) horizontal grid lines.

void	<a href="#">setHorizontalGridLinePaintOdd</a> (java.awt.Paint paint) Property: The paint used to draw the odd (1, 3, 5...) horizontal grid lines.
void	<a href="#">setImage</a> (XtdImage img) Property: The background or foreground image in the date area.
void	<a href="#">setImagePlaceRect</a> (PlaceRect r) Property: How the image should be placed relative to the bounds of the date area.
void	<a href="#">setImageTiling</a> (boolean b) Property: If the image should be tiled within the bounds.
void	<a href="#">setLabelAlignX</a> (AtRefRangeNumber x) Property: The horizontal alignment the label should have within the bounds denoted by the PlaceRect (setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)).
void	<a href="#">setLabelAlignY</a> (AtRefRangeNumber y) Property: The vertical alignment the label should have within the bounds denoted by the PlaceRect (setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)).
void	<a href="#">setLabelAntiAlias</a> (int hint) Property: The anti aliasing hint used when drawing the label.
void	<a href="#">setLabelBackground</a> (java.awt.Paint paint) Property: The java.awt.Paint used to draw the background of the label.
void	<a href="#">setLabelBorder</a> (javax.swing.border.Border b) Property: The border that is painted around the label.
void	<a href="#">setLabelCellModulo</a> (int i) Property: This property make is possible to show every second or third (for instance) cell label instead if the default every one.
void	<a href="#">setLabelDateFormat</a> (String format) Property: The date format that specifies the text that will be the label.
void	<a href="#">setLabelFirstDateFormat</a> (String format) Property: Date format for the "first" of something, e.g. first day of the month.
void	<a href="#">setLabelFirstInField</a> (int calField) Property: If getFirstDateFormat() is !
void	<a href="#">setLabelFont</a> (java.awt.Font font) Property: The font used to draw the label.
void	<a href="#">setLabelForeground</a> (java.awt.Color c) Property: The paint that is used to draw the label.
void	<a href="#">setLabelMinimumCellSize</a> (java.awt.Dimension size) Property: If the cell is smaller than this size, in any dimension, the label will not be drawn.
void	<a href="#">setLabelNowBackground</a> (java.awt.Paint paint) Property: The java.awt.Paint used to draw the background of the label for the cell that spans the current time.
void	<a href="#">setLabelNowBorder</a> (javax.swing.border.Border b) Property: The border that is painted around the label for the cell that spans the current time.

void	<a href="#">setLabelNowDateFormat</a> (String format) Property: The date format that specifies the text that will be the label for the cell that spans the current time.
void	<a href="#">setLabelNowFont</a> (java.awt.Font font) Property: The font used to draw the label for the cell that spans the current time.
void	<a href="#">setLabelNowForeground</a> (java.awt.Color c) Property: The paint that is used to draw the label for the cell that spans the current time.
void	<a href="#">setLabelNowRangeType</a> (Integer rangeType) Property: The range type to round the "now" date to.
void	<a href="#">setLabelPlaceRect</a> (PlaceRect placeRect) Property: Denotes the bounds that the label should get.
void	<a href="#">setLayerForActivities</a> (int i) Property: The layer index for the decorator that paints the activities.
void	<a href="#">setLayerForDividers</a> (int i) Property: The layer index for the decorator that paints the dividers between some date ranges.
void	<a href="#">setLayerForEvenFieldFill</a> (int i) Property: The layer index for the decorator that paints the even date ranges.
void	<a href="#">setLayerForGridLines</a> (int i) Property: The layer index for the decorator that paints the grid lines.
void	<a href="#">setLayerForImage</a> (int i) Property: The layer index for the decorator that paints a background/foreground image in the date area.
void	<a href="#">setLayerForLabels</a> (int i) Property: The layer index for the decorator that paints the labels in the cells.
void	<a href="#">setLayerForOccupied</a> (int i) Property: The layer index for the decorator that decorates the parts of the cells that has an activity which date range spans that time.
void	<a href="#">setLayerForOddFill</a> (int i) Property: The layer index for the decorator that paints the odd rows and/or columns.
void	<a href="#">setLayerForSelections</a> (int i) Property: The layer index for the decorator that paints the mouse over, selected and temporary pressed selections in the grid.
void	<a href="#">setMouseOverActivitiesOntop</a> (boolean b) Property: If Activities that have the mouse hovering over them should be painted on top of other activities.
void	<a href="#">setNoExpandedFolderGridLine</a> (boolean b) Property: If the grid lines around a folded (collapsed) folder sub row should be merged to one.
void	<a href="#">setNorthDateHeader</a> (DateHeaderBean header) Sets the date header that will be above the date area.
void	<a href="#">setOccupiedBackgroundPaint</a> (java.awt.Paint p) Property: The background paint for the decoration where there's an activity which range overlap.

void	<a href="#">setOccupiedMergeOverlapping</a> (boolean b) Property: If occupied activity ranges that overlap should be combined (merged) before draining the occupied rects.
void	<a href="#">setOccupiedNotBackgroundPaint</a> (java.awt.Paint p) Property: The background paint for the decoration where there's an activity which range DOESN'T overlap.
void	<a href="#">setOccupiedNotOutlinePaint</a> (java.awt.Paint p) Property: The outline paint for the decoration where there's an activity which range DOESN'T overlap.
void	<a href="#">setOccupiedOutlinePaint</a> (java.awt.Paint p) Property: The outline paint for the decoration where there's an activity which range overlap.
void	<a href="#">setOccupiedPlaceRect</a> (PlaceRect r) Property: The placing of the rectangle that denoted the occupied/not occupied periods.
void	<a href="#">setOccupiedRoundToRangeType</a> (Integer rangeType) Property: If occupied activity ranges that overlap should be combined (merged) before draining the occupied rects.
void	<a href="#">setOddColumnPaint</a> (java.awt.Paint paint) Property: The paint to paint for all odd columns.
void	<a href="#">setOddRowPaint</a> (java.awt.Paint paint) Property: The paint to paint for all odd rows.
void	<a href="#">setPrimaryDimension</a> (int dim) Sets the dimension time progresses if there was no wrapping.
void	<a href="#">setPrimaryDimensionCellType</a> (int cellType) Sets the type of primDimCellSpanCount.
void	<a href="#">setPrimaryDimensionCellTypeCount</a> (int count) Sets how many primDimCellSpanType a cell spans in the primary dimension.
void	<a href="#">setPrimaryDimensionLayout</a> (GridLayoutProvider layout) Property: The layout provider for the primary dimension for the grid.
void	<a href="#">setSecondaryDimensionLayout</a> (GridLayoutProvider layout) Property: The layout provider for the secondary dimension for the grid.
void	<a href="#">setSelectablePaint</a> (java.awt.Paint paint) Property: The paint used to fill the cells that are marked as selectable.
void	<a href="#">setSelectedActivitiesOnTop</a> (boolean b) Property: If Activities that are selected should be painted on top of other activities.
void	<a href="#">setSelectionBoundaryType</a> (int rangeType) Property: The type of date range (e.g. day, hour, week) that selectionw will be rounded to.
void	<a href="#">setSelectionMouseOverPaint</a> (java.awt.Paint paint) Property: The paint used to fill the cells that the mouse is over.
void	<a href="#">setSelectionMousePressedPaint</a> (java.awt.Paint paint) Property: The paint used to fill the cells that the is pressed over (e.g. temporary selection).
void	<a href="#">setSelectionPaint</a> (java.awt.Paint paint) Property: The paint used to fill the cells that are selected.

void	<a href="#">setSelectionType</a> (int type) Property: The type of selection that can be done on the date area background.
void	<a href="#">setShowNoFitIcon</a> (boolean b) Property: If the little icon that shows that not all activities have fitted within a date range (normally a day).
void	<a href="#">setSnapToMillis</a> (long millis) Sets what even millisecond to snap to when resizing and moving activities.
void	<a href="#">setSouthDateHeader</a> ( <a href="#">DateHeaderBean</a> header) Sets the date header that will be below the date area.
void	<a href="#">setSubRowCreator</a> (SubRowCreator creator) Property: A custom com.miginfocom.calendar.grid.SubRowCreator that can be set to create all sub rows for the date area bean.
void	<a href="#">setSubRowGridLinePaint</a> (java.awt.Paint paint) Property: The paint used to draw sub row divider grid lines.
void	<a href="#">setVerticalGridLineExceptions</a> (GridLineException[] exceptions) Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
void	<a href="#">setVerticalGridLinePaintEven</a> (java.awt.Paint paint) Property: The paint used to draw the even (0, 2, 4...) vertical grid lines.
void	<a href="#">setVerticalGridLinePaintOdd</a> (java.awt.Paint paint) Property: The paint used to draw the odd (1, 3, 5...) vertical grid lines.
void	<a href="#">setWestDateHeader</a> ( <a href="#">DateHeaderBean</a> header) Sets the date header that will be to the left the date area.
void	<a href="#">setVisibleDateRangeString</a> (String dateStrings) Property: A string representing the visual date range of the exact form: "yyyyMMdd'T'HHmmssSSS'-'yyyyMMdd'T'HHmmssSSS" without the ' of course.
void	<a href="#">setWrapBoundary</a> (Integer wrap) Set which boundary (e.g. week, day) that the grid should wrap.
void	<a href="#">setWrapBoundaryCount</a> (int count) Sets the number of wrapBoundary before wrapping.
void	<a href="#">validateHeaders</a> ()

#### Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### DateAreaBean

```
public DateAreaBean()
```

(continued from last page)

## Methods

### **addNotify**

```
public void addNotify()
```

### **removeNotify**

```
public void removeNotify()
```

### **createLayout**

```
public GridDimensionLayout createLayout(Grid grid,  
int dimIx)
```

### **getDefaultDateArea**

```
public DefaultDateArea getDefaultDateArea()
```

#### **Returns:**

The DefaultDateArea.

### **createSpecification**

```
public GridLineSpecification createSpecification(DateArea dateArea)
```

### **paint**

```
public void paint(java.awt.Graphics g)
```

### **doLayout**

```
public void doLayout()
```

### **revalidateGrid**

```
public void revalidateGrid()
```

Recreates the grid in the date area

### **isDesignTimeHelp**

```
public boolean isDesignTimeHelp()
```

---

(continued from last page)

Property: If `true` draws an information message in "design time".

**Returns:**

The current value. `true` is default.

---

## setDesignTimeHelp

```
public void setDesignTimeHelp(boolean b)
```

Property: If `true` draws an information message in "design time".

**Parameters:**

`b` - The new value. `true` is default.

---

## getVisibleDateRangeString

```
public String getVisibleDateRangeString()
```

Property: A string representing the visual date range of the exact form: "yyyyMMdd'T'HHmmssSSS' - 'yyyyMMdd'T'HHmmssSSS" without the ' of course. Example: 20061030T164500000

Note that the dates will be rounded to even up to the cells defined by `primaryDimensionCellType` and `primaryDimensionCellTypeCount` as well as `wrapType`.

Note that this is a convenience that should only be used for tests since there is no time zone or locale information.

If there is a format error the property set will be silently ignored.

**Returns:**

The current visual date range. Not null.

**See Also:**

`setVisibleDateRange(com.miginfocom.util.dates.DateRangeI)`

---

## setVisibleDateRangeString

```
public void setVisibleDateRangeString(String dateStrings)
```

Property: A string representing the visual date range of the exact form: "yyyyMMdd'T'HHmmssSSS' - 'yyyyMMdd'T'HHmmssSSS" without the ' of course. Example: 20061030T164500000

Note that this is a convenience that should only be used for tests since there is no time zone or locale information.

If there is a format error the property set will be silently ignored.

This property should be set **after** the structure if the date area (grid) is set with the properties that start with `primaryXXX`

**Parameters:**

`dateStrings` - The new visual date range. Not null.

**See Also:**

`getVisibleDateRange()`

`getVisibleDateRangeCorrected()`

---

## getCategoryRoot

```
public Category getCategoryRoot()
```

---

---

(continued from last page)

Property: The category from the `com.miginfocom.calendar.category.CategoryDepository` that will serve as the root for this category header. Note that this category can either be shown itself or just serve as the invisible root to show its children as a multi root. This can be change with [setCategoryShowRoot\(boolean\)](#).

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Returns:**

The current root category. May be `null` which means that categories is generally disabled for this bean.

---

## setCategoryRoot

```
public void setCategoryRoot(Category root)
```

Property: The category from the `com.miginfocom.calendar.category.CategoryDepository` that will serve as the root for this category header. Note that this category can either be shown itself or just serve as the invisible root to show its children as a multi root. This can be change with [setCategoryShowRoot\(boolean\)](#).

The bean [DemoDataBean](#) is a `Category` so if one of those is created to construct demo data it can be set here as the root.

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Parameters:**

`root` - The new root category. May be `null` which means that categories is generally disabled for this bean.

---

## getCategoryRootIDs

```
public Object[] getCategoryRootIDs()
```

Property: The category IDs from the `com.miginfocom.calendar.category.CategoryDepository` that will serve as the root(s) for this category header. Note that this category(s) can either be shown itself or just serve as the invisible root(s) to show its children as a multi root. This can be change with [setCategoryShowRoot\(boolean\)](#).

The bean [DemoDataBean](#) is a `Category` so if one of those is created to construct demo data it can be set here as the root.

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Returns:**

The current root category. May be `null` which means that categories is generally disabled for this bean.

---

## setCategoryRootIDs

```
public void setCategoryRootIDs(Object[] rootIDs)
```

Property: The category IDs from the `com.miginfocom.calendar.category.CategoryDepository` that will serve as the root(s) for this category header. Note that this category(s) can either be shown itself or just serve as the invisible root(s) to show its children as a multi root. This can be change with [setCategoryShowRoot\(boolean\)](#).

The bean [DemoDataBean](#) is a `Category` so if one of those is created to construct demo data it can be set here as the root.

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Parameters:**

`rootIDs` - The new category root ID(s). May be `null` which means that categories is generally disabled for this bean.

---

## getCategoryAutoRevalidate

```
public boolean getCategoryAutoRevalidate()
```

Property: If the categories in the `CategoryDepository` changes the date area will revalidate itself if there is a category root set.

**Returns:**

If the auto revalidation is on.

---

---

## setCategoryAutoRevalidate

```
public void setCategoryAutoRevalidate(boolean b)
```

Property: If the categories in the `CategoryDepository` changes the date area will revalidate itself if there is a category root set.

**Parameters:**

b - If the auto revalidation is on.

---

## getSubRowCreator

```
public SubRowCreator getSubRowCreator()
```

Property: A custom `com.miginfocom.calendar.grid.SubRowCreator` that can be set to create all sub rows for the date area bean. Note that if this is set then the `categoryRoot`, `categoryRoots` and `categoryShowRoot` properties will not be used since they are only used for the default sub row creator (which is a `CategorySubRowCreator`). The default value for this property is `null` and then the two properties mentioned above will be used to create the sub rows.

**Returns:**

The current creator. Default is `null`.

**See Also:**

`setCategoryRoot(com.miginfocom.calendar.category.Category)`  
[setCategoryShowRoot\(boolean\)](#)

---

## setSubRowCreator

```
public void setSubRowCreator(SubRowCreator creator)
```

Property: A custom `com.miginfocom.calendar.grid.SubRowCreator` that can be set to create all sub rows for the date area bean. Note that if this is set then the `categoryRoot`, `categoryRoots` and `categoryShowRoot` properties will not be used since they are only used for the default sub row creator (which is a `CategorySubRowCreator`). The default value for this property is `null` and then the two properties mentioned above will be used to create the sub rows.

**Parameters:**

creator - The new creator. Default is `null`.

**See Also:**

`setCategoryRoot(com.miginfocom.calendar.category.Category)`  
[setCategoryShowRoot\(boolean\)](#)

---

## getCategoryShowRoot

```
public boolean getCategoryShowRoot()
```

Property: If the root category set with `setCategoryRoot(com.miginfocom.calendar.category.Category)` should be shown or if its children should be shown in the first level.

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Returns:**

If the root category should be show as the sole root.

---

## setCategoryShowRoot

```
public void setCategoryShowRoot(boolean b)
```

---

(continued from last page)

Property: If the root category set with `setCategoryRoot(com.miginfocom.calendar.category.Category)` should be shown or if its children should be shown in the first level.

NOTE! Not used if `setSubRowCreator(com.miginfocom.calendar.grid.SubRowCreator)` is `!= null!`

**Parameters:**

b - If the root category should be show as the sole root.

---

## getLayerForActivities

```
public int getLayerForActivities()
```

Property: The layer index for the decorator that paints the activities.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

`DefaultDateArea.ActivityViewDecorator`  
`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForActivities

```
public void setLayerForActivities(int i)
```

Property: The layer index for the decorator that paints the activities.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

`DefaultDateArea.ActivityViewDecorator`

---

## getLayerForGridLines

```
public int getLayerForGridLines()
```

Property: The layer index for the decorator that paints the grid lines.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

`GridLineDecorator`  
`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForGridLines

```
public void setLayerForGridLines(int i)
```

---

(continued from last page)

Property: The layer index for the decorator that paints the grid lines.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

`GridLineDecorator`

---

## getLayerForDividers

```
public int getLayerForDividers()
```

Property: The layer index for the decorator that paints the dividers between some date ranges. For example a darker line between months.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

`DateSeparatorDecorator`

`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForDividers

```
public void setLayerForDividers(int i)
```

Property: The layer index for the decorator that paints the dividers between some date ranges. For example a darker line between months.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

`DateSeparatorDecorator`

---

## getLayerForSelections

```
public int getLayerForSelections()
```

Property: The layer index for the decorator that paints the mouse over, selected and temporary pressed selections in the grid. It has nothing to do with selection of activities, but all to do with selection of cells in the date grid.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

---

(continued from last page)

**See Also:**

SelectionGridDecorator  
addDecorator(com.miginfocom.calendar.decorators.Decorator)

---

## setLayerForSelections

```
public void setLayerForSelections(int i)
```

Property: The layer index for the decorator that paints the mouse over, selected and temporary pressed selections in the grid. It has nothing to do with selection of activities, but all to do with selection of cells in the date grid.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

SelectionGridDecorator

---

## getLayerForLabels

```
public int getLayerForLabels()
```

Property: The layer index for the decorator that paints the labels in the cells. For instance the day number or time.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

CellLabelDecorator  
addDecorator(com.miginfocom.calendar.decorators.Decorator)

---

## setLayerForLabels

```
public void setLayerForLabels(int i)
```

Property: The layer index for the decorator that paints the labels in the cells. For instance the day number or time.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

CellLabelDecorator

---

## getLayerForEvenFieldFill

```
public int getLayerForEvenFieldFill()
```

(continued from last page)

Property: The layer index for the decorator that paints the even date ranges. It can for instance be used to draw every other month in a darker color.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

`EvenFieldFillDecorator`

`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForEvenFieldFill

```
public void setLayerForEvenFieldFill(int i)
```

Property: The layer index for the decorator that paints the even date ranges. It can for instance be used to draw every other month in a darker color.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

`i` - The new layer for the decorator.

**See Also:**

`EvenFieldFillDecorator`

---

## getLayerForOccupied

```
public int getLayerForOccupied()
```

Property: The layer index for the decorator that decorates the parts of the cells that has an activity which date range spans that time. For instance Microsoft's Outlook has this in it's day(s) view. It paints blue on the left side of those cells. This decoration is quite flexible and can paint the background for the whole cells or just parts of it.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

`OccupiedDecorator`

`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForOccupied

```
public void setLayerForOccupied(int i)
```

Property: The layer index for the decorator that decorates the parts of the cells that has an activity which date range spans that time. For instance Microsoft's Outlook has this in it's day(s) view. It paints blue on the left side of those cells. This decoration is quite flexible and can paint the background for the whole cells or just parts of it.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

(continued from last page)

**Parameters:**

i - The new layer for the decorator.

**See Also:**

OccupiedDecorator

---

## getLayerForImage

```
public int getLayerForImage()
```

Property: The layer index for the decorator that paints a background/foreground image in the date area.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

ImageDecorator  
`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForImage

```
public void setLayerForImage(int i)
```

Property: The layer index for the decorator that paints a background/foreground image in the date area.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

ImageDecorator

---

## getLayerForOddFill

```
public int getLayerForOddFill()
```

Property: The layer index for the decorator that paints the odd rows and/or columns. It can for instance be used to draw every other row in a darker color.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Returns:**

The current index.

**See Also:**

OddRowFillDecorator  
`addDecorator(com.miginfocom.calendar.decorators.Decorator)`

---

## setLayerForOddFill

```
public void setLayerForOddFill(int i)
```

---

---

(continued from last page)

Property: The layer index for the decorator that paints the odd rows and/or columns. It can for instance be used to draw every other row in a darker color.

This property affect the order in which the different layers are painted, and thus what gets painted on top of what. Lower layer indexes will be painted first and will end up below layers with higher index. Everything that is painted in a date area is painted in layers, and the layers are implemented with `com.miginfocom.calendar.decorators.Decorators`.

**Parameters:**

i - The new layer for the decorator.

**See Also:**

`OddRowFillDecorator`

---

## getDemoDataBean

```
public DemoDataBean getDemoDataBean()
```

Property: A reference to a demo data bean that creates demo data for this date area. This is normally only used for testing purposes and should not be used in any production environment.

**Returns:**

The current value of the property or `null`.

---

## setDemoDataBean

```
public void setDemoDataBean(DemoDataBean b)
```

Property: A reference to a demo data bean that creates demo data for this date area. This is normally only used for testing purposes and should not be used in any production environment.

**Parameters:**

b - The new value for the property. May be `null`.

---

## getImage

```
public XtdImage getImage()
```

Property: The background or foreground image in the date area. Note that `com.miginfocom.util.gfx.XtdImage` is very flexible and can be created in may ways, including from an embedded BASE64 string.

This is a property that affects an optional background or foreground image in the date area.

**Returns:**

The current value of the property.

**See Also:**

`ImageDecorator`

---

## setImage

```
public void setImage(XtdImage img)
```

Property: The background or foreground image in the date area. Note that `com.miginfocom.util.gfx.XtdImage` is very flexible and can be created in may ways, including from an embedded BASE64 string.

This is a property that affects an optional background or foreground image in the date area.

**Parameters:**

img - The new value for the property. May be `null`.

**See Also:**

(continued from last page)

ImageDecorator

---

## getImagePlaceRect

```
public PlaceRect getImagePlaceRect()
```

Property: How the image should be placed relative to the bounds of the date area. Note that the placing is very flexible through the use of the rectangle transformation interface `PlaceRect`.

This is a property that affects an optional background or foreground image in the date area.

**Returns:**

The current value of the property.

**See Also:**

`ImageDecorator`  
`com.miginfocom.util.gfx.geometry.AbsRect`  
`com.miginfocom.util.gfx.geometry.AlignRect`  
`com.miginfocom.util.gfx.geometry.AspectRatioRect`

---

## setImagePlaceRect

```
public void setImagePlaceRect(PlaceRect r)
```

Property: How the image should be placed relative to the bounds of the date area. Note that the placing is very flexible through the use of the rectangle transformation interface `PlaceRect`.

This is a property that affects an optional background or foreground image in the date area.

**Parameters:**

`r` - The new value for the property. May be null.

**See Also:**

`ImageDecorator`  
`com.miginfocom.util.gfx.geometry.AbsRect`  
`com.miginfocom.util.gfx.geometry.AlignRect`  
`com.miginfocom.util.gfx.geometry.AspectRatioRect`

---

## getImageTiling

```
public boolean getImageTiling()
```

Property: If the image should be tiled within the bounds. It is stretched/shrunked otherwise, depending on the rectangle returned by the `placeRect`.

This is a property that affects an optional background or foreground image in the date area.

**Returns:**

The current value of the property.

**See Also:**

`ImageDecorator`

---

## setImageTiling

```
public void setImageTiling(boolean b)
```

Property: If the image should be tiled within the bounds. It is stretched/shrunked otherwise, depending on the rectangle returned by the `placeRect`.

This is a property that affects an optional background or foreground image in the date area.

---

(continued from last page)

**Parameters:**

b - The new value for the property.

**See Also:**

ImageDecorator

---

## getOccupiedBackgroundPaint

```
public java.awt.Paint getOccupiedBackgroundPaint()
```

Property: The background paint for the decoration where there's an activity which range overlaps.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property.

**See Also:**

OccupiedDecorator

---

## setOccupiedBackgroundPaint

```
public void setOccupiedBackgroundPaint(java.awt.Paint p)
```

Property: The background paint for the decoration where there's an activity which range overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Parameters:**

p - The new value for the property.

**See Also:**

OccupiedDecorator

---

## getOccupiedOutlinePaint

```
public java.awt.Paint getOccupiedOutlinePaint()
```

Property: The outline paint for the decoration where there's an activity which range overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property.

**See Also:**

OccupiedDecorator

---

## setOccupiedOutlinePaint

```
public void setOccupiedOutlinePaint(java.awt.Paint p)
```

---

(continued from last page)

Property: The outline paint for the decoration where there's an activity which range overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Parameters:**

p - The new value for the property.

**See Also:**

OccupiedDecorator

---

## getOccupiedNotBackgroundPaint

```
public java.awt.Paint getOccupiedNotBackgroundPaint()
```

Property: The background paint for the decoration where there's an activity which range DOESN'T overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property.

**See Also:**

OccupiedDecorator

---

## setOccupiedNotBackgroundPaint

```
public void setOccupiedNotBackgroundPaint(java.awt.Paint p)
```

Property: The background paint for the decoration where there's an activity which range DOESN'T overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Parameters:**

p - The new value for the property.

**See Also:**

OccupiedDecorator

---

## getOccupiedNotOutlinePaint

```
public java.awt.Paint getOccupiedNotOutlinePaint()
```

Property: The outline paint for the decoration where there's an activity which range DOESN'T overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property.

**See Also:**

OccupiedDecorator

---

(continued from last page)

---

## setOccupiedNotOutlinePaint

```
public void setOccupiedNotOutlinePaint(java.awt.Paint p)
```

Property: The outline paint for the decoration where there's an activity which range DOESN'T overlap.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

### Parameters:

p - The new value for the property.

### See Also:

OccupiedDecorator

---

## getOccupiedPlaceRect

```
public PlaceRect getOccupiedPlaceRect()
```

Property: The placing of the rectangle that denoted the occupied/not occupied periods. The reference rectangle is normally the size of the activity range in the primary dimension and the whole cell in the secondary dimension.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

### Returns:

The current value of the property.

### See Also:

OccupiedDecorator

---

## setOccupiedPlaceRect

```
public void setOccupiedPlaceRect(PlaceRect r)
```

Property: The placing of the rectangle that denoted the occupied/not occupied periods. The reference rectangle is normally the size of the activity range in the primary dimension and the whole cell in the secondary dimension.

E.g:

```
new AbsRect(SwingConstants.BOTTOM, new Integer(10)) or  
new AbsRect(SwingConstants.LEFT, new Integer(10))
```

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

### Parameters:

r - The new value for the property.

### See Also:

OccupiedDecorator

---

## getOccupiedMergeOverlapping

```
public boolean getOccupiedMergeOverlapping()
```

---

(continued from last page)

Property: If occupied activity ranges that overlap should be combined (merged) before draing the occupied rects.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property.

**See Also:**

OccupiedDecorator

---

## setOccupiedMergeOverlapping

```
public void setOccupiedMergeOverlapping(boolean b)
```

Property: If occupied activity ranges that overlap should be combined (merged) before draing the occupied rects.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Parameters:**

b - The new value for the property.

**See Also:**

OccupiedDecorator

---

## getOccupiedRoundToRangeType

```
public Integer getOccupiedRoundToRangeType()
```

Property: If occupied ranges should be rounded to a range type (e.g. a day or hour). This is for showing (for instance) that a day is "occupied" even if just a part of it is.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Returns:**

The current value of the property. E.g. RANGE\_TYPE\_DAY. May be null.

**See Also:**

OccupiedDecorator

---

## setOccupiedRoundToRangeType

```
public void setOccupiedRoundToRangeType(Integer rangeType)
```

Property: If occupied activity ranges that overlap should be combined (merged) before draing the occupied rects.

This is a property that affects the visual representation of the occupied decorator. It can be used to paint different backgrounds/outlines for parts is the date area that has a activity overlapping and not. For instance the blue left side in Microoft Outlook's day views can easily be simulated with this.

**Parameters:**

rangeType - The new value for the property. If null there will be no rounding (default).

**See Also:**

OccupiedDecorator

---

---

## getActivityPaintContext

```
public String getActivityPaintContext()
```

Property: The default paint context that will be used to get an AShape to paint with. This is the default context to use (null is default) if it is not set on the activity directly with `setPaintContext(String)`.

It can for instance be used to "connect" this bean's visual appearance to that of a [ActivityAShapeBean](#)'s `paintContext`.

### Returns:

The current value of the property.

### See Also:

`getDefaultPaintContext()`  
[ActivityAShapeBean.getPaintContext\(\)](#)

### Since:

6.0

---

## setActivityPaintContext

```
public void setActivityPaintContext(String ctx)
```

Property: The default paint context that will be used to get an AShape to paint with. This is the default context to use (null is default) if it is not set on the activity directly with `setPaintContext(String)`.

It can for instance be used to "connect" this bean's visual appearance to that of a [ActivityAShapeBean](#)'s `paintContext`.

### Parameters:

`ctx` - The new value for the property. May be null.

### See Also:

`setDefaultPaintContext(String)`  
[ActivityAShapeBean.setPaintContext\(String\)](#)

### Since:

6.0

---

## getPrimaryDimensionLayout

```
public GridLayoutProvider getPrimaryDimensionLayout()
```

Property: The layout provider for the primary dimension for the grid. The primary dimension is the one (vertical or horizontal) that would be the only one if there was no wrapping. For instance normal text has horizontal as primary dimension.

Note that normally a `GridLayoutProvider` can provide for both dimensions, however to be able to set different types of layouts in a visual environment this one will only be used to provide a layout for one dimension. This class (`DateAreaBean`) is itself a `GridLayoutProvider` and will relay the request to this provider, if set, but only for one dimension.

### Returns:

The layout provider for the primary dimension.

---

## setPrimaryDimensionLayout

```
public void setPrimaryDimensionLayout(GridLayoutProvider layout)
```

---

(continued from last page)

Property: The layout provider for the primary dimension for the grid. The primary dimension is the one (vertical or horizontal) that would be the only one if there was no wrapping. For instance normal text has horizontal as primary dimension.

Note that normally a `GridLayoutProvider` can provide for both dimensions, however to be able to set different types of layouts in a visual environment this one will only be used to provide a layout for one dimension. This class (`DateAreaBean`) is itself a `GridLayoutProvider` and will relay the request to this provider, if set, but only for one dimension.

**Parameters:**

layout

---

## getSecondaryDimensionLayout

```
public GridLayoutProvider getSecondaryDimensionLayout()
```

Property: The layout provider for the secondary dimension for the grid. The secondary dimension is the one (vertical or horizontal) that increases when there is a wrap. For instance normal text has vertical as secondary dimension.

Note that normally a `GridLayoutProvider` can provide for both dimensions, however to be able to set different types of layouts in a visual environment this one will only be used to provide a layout for one dimension. This class (`DateAreaBean`) is itself a `GridLayoutProvider` and will relay the request to this provider, if set, but only for one dimension.

**Returns:**

The layout provider for the primary dimension.

---

## setSecondaryDimensionLayout

```
public void setSecondaryDimensionLayout(GridLayoutProvider layout)
```

Property: The layout provider for the secondary dimension for the grid. The secondary dimension is the one (vertical or horizontal) that increases when there is a wrap. For instance normal text has vertical as secondary dimension.

Note that normally a `GridLayoutProvider` can provide for both dimensions, however to be able to set different types of layouts in a visual environment this one will only be used to provide a layout for one dimension. This class (`DateAreaBean`) is itself a `GridLayoutProvider` and will relay the request to this provider, if set, but only for one dimension.

**Parameters:**

layout

---

## getWrapBoundary

```
public Integer getWrapBoundary()
```

Returns a which boundary (e.g. week, day) that the grid should wrap. E.g `RANGE_TYPE_WEEK`.

**Returns:**Which boundary (e.g. week, day) that the grid should wrap. Default is `DateRangeI.RANGE_TYPE_WEEK`.

---

## setWrapBoundary

```
public void setWrapBoundary(Integer wrap)
```

Set which boundary (e.g. week, day) that the grid should wrap. E.g `RANGE_TYPE_WEEK`.

**Parameters:**wrap - Which boundary (e.g. week, day) that the grid should wrap. Default is `DateRangeI.RANGE_TYPE_WEEK`.

(continued from last page)

---

## getWrapBoundaryCount

```
public int getWrapBoundaryCount()
```

Returns the number of wrapBoundary before wrapping.

**Returns:**

The count. Default is 1.If < 1 then 1 will be set silently.

---

## setWrapBoundaryCount

```
public void setWrapBoundaryCount(int count)
```

Sets the number of wrapBoundary before wrapping.

**Parameters:**

count - The count. Default is 1.If < 1 then 1 will be set silently.

---

## getPrimaryDimensionCellTypeCount

```
public int getPrimaryDimensionCellTypeCount()
```

Returns how may cells in the primary dimension. Only used if wrapBoundary is set.

**Returns:**

How may cells in the primary dimension. Only used if wrapBoundary is set.

---

## setPrimaryDimensionCellTypeCount

```
public void setPrimaryDimensionCellTypeCount(int count)
```

Sets how many primDimCellSpanType a cell spans in the primary dimension. E.g. 30 (if primDimCellSpanType is minutes).

**Parameters:**

count - how many primDimCellSpanType a cell spans in the primary dimension.

---

## getPrimaryDimensionCellType

```
public int getPrimaryDimensionCellType()
```

Returns the type of primDimCellSpanCount. E.g RANGE\_TYPE\_MINUTE

**Returns:**

The type of primDimCellSpanCount. E.g RANGE\_TYPE\_MINUTE

---

## setPrimaryDimensionCellType

```
public void setPrimaryDimensionCellType(int cellType)
```

Sets the type of primDimCellSpanCount. E.g RANGE\_TYPE\_MINUTE

**Parameters:**

cellType - The type of primDimCellSpanCount. E.g RANGE\_TYPE\_MINUTE

---

## getPrimaryDimension

```
public int getPrimaryDimension()
```

---

---

(continued from last page)

What dimension time progresses if there was no wrapping. `SwingConstants.HORIZONTAL` or `SwingConstants.VERTICAL`.

**Returns:**

What dimension time progresses if there was no wrapping.

---

## setPrimaryDimension

```
public void setPrimaryDimension(int dim)
```

Sets the dimension time progresses if there was no wrapping. `SwingConstants.HORIZONTAL` or `SwingConstants.VERTICAL`.

**Parameters:**

`dim` - What dimension time progresses if there was no wrapping.

---

## getActivityLayouts

```
public ActivityLayout[] getActivityLayouts()
```

Returns the currently installed `com.miginfocom.calendar.layout.ActivityLayouts`.

**Returns:**

The currently installed `com.miginfocom.calendar.layout.ActivityLayouts`.

**See Also:**

`addActivityLayout(com.miginfocom.calendar.layout.ActivityLayout)`

---

## setActivityLayouts

```
public void setActivityLayouts(ActivityLayout[] layouts)
```

Sets the `com.miginfocom.calendar.layout.ActivityLayouts`.

**Parameters:**

`layouts` - The new `com.miginfocom.calendar.layout.ActivityLayouts`.

**See Also:**

`addActivityLayout(com.miginfocom.calendar.layout.ActivityLayout)`

---

## getSnapToMillis

```
public long getSnapToMillis()
```

Return what even millisecond to snap to when resizing and moving activities.

**Returns:**

The millisecond to snap to in milliseconds or 0 if snap is disabled.

---

## setSnapToMillis

```
public void setSnapToMillis(long millis)
```

Sets what even millisecond to snap to when resizing and moving activities.

**Parameters:**

`millis` - The millisecond to snap to in milliseconds. 0 disables snap.

---

---

## getCategoryHeader

```
public CategoryHeaderBean getCategoryHeader()
```

Returns the one and only category header bean. It will always be above or to the left of the date area and always on the left side if the primary dimension is horizontal and above if primary dimension is vertical.

**Returns:**

The one and only category header bean or null if none is set.

---

## setCategoryHeader

```
public void setCategoryHeader(CategoryHeaderBean header)
```

Sets or disables the category header.

**Parameters:**

header - the new header or null if it should not be used (i.e. removed).

**See Also:**

[getCategoryHeader\(\)](#)

---

## getNorthDateHeader

```
public DateHeaderBean getNorthDateHeader()
```

Returns the date header that is above the date area.

**Returns:**

The date header that is above the date area or null if none.

---

## setNorthDateHeader

```
public void setNorthDateHeader(DateHeaderBean header)
```

Sets the date header that will be above the date area.

**Parameters:**

header - The date header that will be above the date area or null if none.

---

## getWestDateHeader

```
public DateHeaderBean getWestDateHeader()
```

Returns the date header that is to the left the date area.

**Returns:**

The date header that is to the left the date area or null if none.

---

## setWestDateHeader

```
public void setWestDateHeader(DateHeaderBean header)
```

Sets the date header that will be to the left the date area.

**Parameters:**

header - The date header that will be to the left the date area or null if none.

---

## getSouthDateHeader

```
public DateHeaderBean getSouthDateHeader()
```

Returns the date header that is below the date area.

**Returns:**

The date header that is below the date area or null if none.

---

## setSouthDateHeader

```
public void setSouthDateHeader(DateHeaderBean header)
```

Sets the date header that will be below the date area.

**Parameters:**

header - The date header that will be below the date area or null if none.

---

## getEastDateHeader

```
public DateHeaderBean getEastDateHeader()
```

Returns the date header that is to the right the date area.

**Returns:**

The date header that is to the right the date area or null if none.

---

## setEastDateHeader

```
public void setEastDateHeader(DateHeaderBean header)
```

Sets the date header that will be to the right the date area.

**Parameters:**

header - The date header that will be to the right the date area or null if none.

---

## validateHeaders

```
public void validateHeaders()
```

---

## getLabelFont

```
public java.awt.Font getLabelFont()
```

Property: The font used to draw the label.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The font used to draw the label. Might be null.

**See Also:**

[setLabelFont\(Font\)](#)

---

(continued from last page)

---

## setLabelFont

```
public void setLabelFont(java.awt.Font font)
```

Property: The font used to draw the label.

This is a property that affects the visual representation of the label in the cells.

**Parameters:**

font - The font used to draw the label. Might be null.

**See Also:**

[getLabelFont\(\)](#)

---

## getLabelNowFont

```
public java.awt.Font getLabelNowFont()
```

Property: The font used to draw the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The font used to draw the label. Might be null.

**See Also:**

[setLabelNowFont\(Font\)](#)

---

## setLabelNowFont

```
public void setLabelNowFont(java.awt.Font font)
```

Property: The font used to draw the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells.

**Parameters:**

font - The font used to draw the label. Might be null.

**See Also:**

[getLabelNowFont\(\)](#)

---

## getLabelAntiAlias

```
public int getLabelAntiAlias()
```

Property: The anti aliasing hint used when drawing the label. For instance AA\_HINT\_ON.

**Returns:**

The current hint. May be null.

**See Also:**

confAntiAliasingHint

---

## setLabelAntiAlias

```
public void setLabelAntiAlias(int hint)
```

Property: The anti aliasing hint used when drawing the label. For instance AA\_HINT\_ON.

---

(continued from last page)

**Parameters:**

hint - The new hint.

**See Also:**`confAntiAliasingHint`

---

## getLabelBackground

```
public java.awt.Paint getLabelBackground()
```

Property: The `java.awt.Paint` used to draw the background of the label. It will draw the whole bounds that is specified with `setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The paint used to draw the background of the label. If `null` no background will be painted.

**See Also:**[setLabelBackground\(Paint\)](#)

---

## setLabelBackground

```
public void setLabelBackground(java.awt.Paint paint)
```

Property: The `java.awt.Paint` used to draw the background of the label. It will draw the whole bounds that is specified with `setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`.

This is a property that affects the visual representation of the label in the cells.

**Parameters:**paint - The paint. May be `null`.**See Also:**[getLabelBackground\(\)](#)

---

## getLabelNowBackground

```
public java.awt.Paint getLabelNowBackground()
```

Property: The `java.awt.Paint` used to draw the background of the label for the cell that spans the current time. It will draw the whole bounds that is specified with `setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The paint used to draw the background of the label. If `null` no background will be painted.

**See Also:**[setLabelBackground\(Paint\)](#)

---

## setLabelNowBackground

```
public void setLabelNowBackground(java.awt.Paint paint)
```

Property: The `java.awt.Paint` used to draw the background of the label for the cell that spans the current time. It will draw the whole bounds that is specified with `setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`.

This is a property that affects the visual representation of the label in the cells.

---

(continued from last page)

**Parameters:**

paint - The paint. May be null.

**See Also:**

[getLabelBackground\(\)](#)

---

## getLabelBorder

```
public javax.swing.border.Border getLabelBorder()
```

Property: The border that is painted around the label.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The border that is painted around the label. null means that the label will not be drawn at all, but the background might

**See Also:**

[setLabelBorder\(Border\)](#)

---

## setLabelBorder

```
public void setLabelBorder(javax.swing.border.Border b)
```

Property: The border that is painted around the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to null will normally make this label not appear at all.

**Parameters:**

b - The border that is painted around the label. May be null.

**See Also:**

[getLabelBorder\(\)](#)

---

## getLabelNowBorder

```
public javax.swing.border.Border getLabelNowBorder()
```

Property: The border that is painted around the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The border that is painted around the label. null means that the label will not be drawn at all, but the background might still be for instance.

**See Also:**

[setLabelBorder\(Border\)](#)

---

## setLabelNowBorder

```
public void setLabelNowBorder(javax.swing.border.Border b)
```

Property: The border that is painted around the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells. Setting the value to null will normally make this label not appear at all.

---

(continued from last page)

**Parameters:**

b - The border that is painted around the label. May be null.

**See Also:**

[getLabelBorder\(\)](#)

---

## getLabelForeground

```
public java.awt.Color getLabelForeground()
```

Property: The paint that is used to draw the label.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The `java.awt.Paint` used to draw the label. `null` means that the label will not be drawn at all, but the background might still be for instance.

**See Also:**

[setLabelForeground\(Color\)](#)

---

## setLabelForeground

```
public void setLabelForeground(java.awt.Color c)
```

Property: The paint that is used to draw the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

c - The color that is used to draw the label. May be null.

**See Also:**

[getLabelForeground\(\)](#)

---

## getLabelNowForeground

```
public java.awt.Color getLabelNowForeground()
```

Property: The paint that is used to draw the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The `java.awt.Paint` used to draw the label. `null` means that the label will not be drawn at all, but the background might still be for instance.

**See Also:**

[setLabelForeground\(Color\)](#)

---

## setLabelNowForeground

```
public void setLabelNowForeground(java.awt.Color c)
```

Property: The paint that is used to draw the label for the cell that spans the current time.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

(continued from last page)

c - The color that is used to draw the label. May be null.

**See Also:**

[getLabelForeground\(\)](#)

---

## getLabelPlaceRect

```
public PlaceRect getLabelPlaceRect()
```

Property: Denotes the bounds that the label should get. The `PlaceRect` will be given the bounds of the cell and return/convert that to the bounds that the label should have.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Returns:**

The specification

**See Also:**

`setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`

---

## setLabelPlaceRect

```
public void setLabelPlaceRect(PlaceRect placeRect)
```

Property: Denotes the bounds that the label should get. The `PlaceRect` object will be given the bounds of the cell and return/convert that to the bounds that the label should have.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

`placeRect` - The new bounds spec. May be null.

**See Also:**

[getLabelPlaceRect\(\)](#)

---

## getLabelAlignX

```
public AtRefRangeNumber getLabelAlignX()
```

Property: The horizontal alignment the label should have within the bounds denoted by the `PlaceRect` (`setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`). It can be a fixed number of pixels from either end or relative (say 50% in, which means centered). There are a number of subclasses to this interface such as `com.miginfocom.util.gfx.geometry.numbers.AtStart`, `com.miginfocom.util.gfx.geometry.numbers.AtEnd` and `com.miginfocom.util.gfx.geometry.numbers.AtFraction`.

E.g. `new AtFraction(0.5f)` or `new AtStart(10f)`.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The current alignment. Not null.

**See Also:**

`setLabelAlignX(com.miginfocom.util.gfx.geometry.numbers.AtRefRangeNumber)`

---

## setLabelAlignX

```
public void setLabelAlignX(AtRefRangeNumber x)
```

---

(continued from last page)

Property: The horizontal alignment the label should have within the bounds denoted by the `PlaceRect` (`setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`). It can be a fixed number of pixels from either end or relative (say 50% in, which means centered). There are a number of subclasses to this interface such as `com.miginfocom.util.gfx.geometry.numbers.AtStart`, `com.miginfocom.util.gfx.geometry.numbers.AtEnd` and `com.miginfocom.util.gfx.geometry.numbers.AtFraction`.

E.g. `new AtFraction(0.5f)` or `new AtStart(10f)`.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

x - The new horizontal alignment. Not null.

**See Also:**

[getLabelAlignX\(\)](#)

---

## getLabelAlignY

```
public AtRefRangeNumber getLabelAlignY()
```

Property: The vertical alignment the label should have within the bounds denoted by the `PlaceRect` (`setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`). It can be a fixed number of pixels from either end or relative (say 50% in, which means centered). There are a number of subclasses to this interface such as `com.miginfocom.util.gfx.geometry.numbers.AtStart`, `com.miginfocom.util.gfx.geometry.numbers.AtEnd` and `com.miginfocom.util.gfx.geometry.numbers.AtFraction`.

E.g. `new AtFraction(0.5f)` or `new AtStart(10f)`.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Returns:**

The current alignment. Not null.

**See Also:**

`setLabelAlignY(com.miginfocom.util.gfx.geometry.numbers.AtRefRangeNumber)`

---

## setLabelAlignY

```
public void setLabelAlignY(AtRefRangeNumber y)
```

Property: The vertical alignment the label should have within the bounds denoted by the `PlaceRect` (`setLabelPlaceRect(com.miginfocom.util.gfx.geometry.PlaceRect)`). It can be a fixed number of pixels from either end or relative (say 50% in, which means centered). There are a number of subclasses to this interface such as `com.miginfocom.util.gfx.geometry.numbers.AtStart`, `com.miginfocom.util.gfx.geometry.numbers.AtEnd` and `com.miginfocom.util.gfx.geometry.numbers.AtFraction`.

E.g. `new AtFraction(0.5f)` or `new AtStart(10f)`.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

y - The new vertical alignment. Not null.

**See Also:**

[getLabelAlignY\(\)](#)

(continued from last page)

## getLabelDateFormat

```
public String getLabelDateFormat()
```

Property: The date format that specifies the text that will be the label. The start date/time that the cell spans will be formatted with this date format and the result will be the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

### Returns:

The current date format. May be `null`.

### See Also:

[setLabelDateFormat\(String\)](#)

---

## setLabelDateFormat

```
public void setLabelDateFormat(String format)
```

Property: The date format that specifies the text that will be the label. The start date/time that the cell spans will be formatted with this date format and the result will be the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

### Parameters:

`format` - The new date format. May be `null` which will make the label not show.

### See Also:

[getLabelDateFormat\(\)](#)

---

## getLabelNowDateFormat

```
public String getLabelNowDateFormat()
```

Property: The date format that specifies the text that will be the label for the cell that spans the current time. The start date/time that the cell spans will be formatted with this date format and the result will be the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

### Returns:

The current date format. May be `null`.

### See Also:

[setLabelNowDateFormat\(String\)](#)

---

## setLabelNowDateFormat

```
public void setLabelNowDateFormat(String format)
```

Property: The date format that specifies the text that will be the label for the cell that spans the current time. The start date/time that the cell spans will be formatted with this date format and the result will be the label.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

### Parameters:

`format` - The new date format. May be `null` which will make the label not show.

---

---

(continued from last page)

**See Also:**

[getLabelNowDateFormat\(\)](#)

---

## getLabelNowRangeType

```
public Integer getLabelNowRangeType()
```

Property: The range type to round the "now" date to. Can for instance be set to `RANGE_TYPE_MONTH` to make all the cells in a month be considered "now" and get the "now" font/background/foreground.

**Returns:**

The current range type or null if not set. E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

## setLabelNowRangeType

```
public void setLabelNowRangeType(Integer rangeType)
```

Property: The range type to round the "now" date to. Can for instance be set to `RANGE_TYPE_MONTH` to make all the cells in a month be considered "now" and get the "now" font/background/foreground.

**Parameters:**

`rangeType` - E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

## getLabelFirstDateFormat

```
public String getLabelFirstDateFormat()
```

Property: Date format for the "first" of something, e.g. first day of the month.

**Returns:**

Date format for the "first" of something, e.g. first day of the month.

**Since:**

6.0

---

## setLabelFirstDateFormat

```
public void setLabelFirstDateFormat(String format)
```

Property: Date format for the "first" of something, e.g. first day of the month.

**Parameters:**

`format` - Date format for the "first" of something, e.g. first day of the month.

**Since:**

6.0

---

## getLabelFirstInField

```
public int getLabelFirstInField()
```

Property: If `getFirstDateFormat()` is != this is the `java.util.Calendar` field that is used to know what's "first".

**Returns:**

The range type. E.g. `Calendar.DAY_OF_MONTH`.

**Since:**

6.0

---

---

## setLabelFirstInField

```
public void setLabelFirstInField(int calField)
```

Property: If `getFirstDateFormat()` is != this is the `java.util.Calendar` field that is used to know what's "first".

**Parameters:**

`calField` - The range type. E.g. `Calendar.DAY_OF_MONTH`.

**Since:**

6.0

---

## getLabelCellModulo

```
public int getLabelCellModulo()
```

Property: This property make is possible to show every second or third (for instance) cell label instead if the default every one. A value of 2 will show every second label etc.

This is a property that affects the visual representation of the label in the cells.

**Returns:**

The current modulo.

**See Also:**

[setLabelCellModulo\(int\)](#)

---

## setLabelCellModulo

```
public void setLabelCellModulo(int i)
```

Property: This property make is possible to show every second or third (for instance) cell label instead if the default every one. A value of 2 will show every second label etc.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

`i` - The new modulo. 1 is default and wil paint every one.

**See Also:**

[getLabelCellModulo\(\)](#)

---

## getLabelMinimumCellSize

```
public java.awt.Dimension getLabelMinimumCellSize()
```

Property: If the cell is smaller than this size, in any dimension, the label will not be drawn. This can be used to hide the label if the cells get to be too small to show the label in an acceptable way.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Returns:**

The current minimum cell size. May be `null`.

**See Also:**

[setLabelMinimumCellSize\(Dimension\)](#)

---

---

## setLabelMinimumCellSize

```
public void setLabelMinimumCellSize(java.awt.Dimension size)
```

Property: If the cell is smaller than this size, in any dimension, the label will not be drawn. This can be used to hide the label if the cells get to be too small to show the label in an acceptable way.

This is a property that affects the visual representation of the label in the cells. Setting the value to `null` will normally make this label not appear at all.

**Parameters:**

`size` - The new minimum size. May be `null` in which case the label is always shown.

**See Also:**

[getLabelMinimumCellSize\(\)](#)

---

## getNoExpandedFolderGridLine

```
public boolean getNoExpandedFolderGridLine()
```

Property: If the grid lines around a folded (collapsed) folder sub row should be merged to one. This is to avoid the double grid lines that would be visible around rows with size 0 otherwise. It is purely a visual setting and won't affect any data or functionality.

**Returns:**

The current state.

---

## setNoExpandedFolderGridLine

```
public void setNoExpandedFolderGridLine(boolean b)
```

Property: If the grid lines around a folded (collapsed) folder sub row should be merged to one. This is to avoid the double grid lines that would be visible around rows with size 0 otherwise. It is purely a visual setting and won't affect any data or functionality.

**Parameters:**

`b` - The new state. Default if `false`.

---

## getHorizontalGridLinePaintEven

```
public java.awt.Paint getHorizontalGridLinePaintEven()
```

Property: The paint used to draw the even (0, 2, 4...) horizontal grid lines.

**Returns:**

The current paint. May be `null`.

---

## setHorizontalGridLinePaintEven

```
public void setHorizontalGridLinePaintEven(java.awt.Paint paint)
```

Property: The paint used to draw the even (0, 2, 4...) horizontal grid lines.

**Parameters:**

`paint` - The new paint. May be `null`.

---

(continued from last page)

---

## getHorizontalGridLinePaintOdd

```
public java.awt.Paint getHorizontalGridLinePaintOdd()
```

Property: The paint used to draw the odd (1, 3, 5...) horizontal grid lines.

**Returns:**

The current paint. May be null.

---

## setHorizontalGridLinePaintOdd

```
public void setHorizontalGridLinePaintOdd(java.awt.Paint paint)
```

Property: The paint used to draw the odd (1, 3, 5...) horizontal grid lines.

**Parameters:**

paint - The new paint. May be null.

---

## getVerticalGridLinePaintEven

```
public java.awt.Paint getVerticalGridLinePaintEven()
```

Property: The paint used to draw the even (0, 2, 4...) vertical grid lines.

**Returns:**

The current paint. May be null.

---

## setVerticalGridLinePaintEven

```
public void setVerticalGridLinePaintEven(java.awt.Paint paint)
```

Property: The paint used to draw the even (0, 2, 4...) vertical grid lines.

**Parameters:**

paint - The new paint. May be null.

---

## getVerticalGridLinePaintOdd

```
public java.awt.Paint getVerticalGridLinePaintOdd()
```

Property: The paint used to draw the odd (1, 3, 5...) vertical grid lines.

**Returns:**

The current paint. May be null.

---

## setVerticalGridLinePaintOdd

```
public void setVerticalGridLinePaintOdd(java.awt.Paint paint)
```

Property: The paint used to draw the odd (1, 3, 5...) vertical grid lines.

**Parameters:**

paint - The new paint. May be null.

---

## getSubRowGridLinePaint

```
public java.awt.Paint getSubRowGridLinePaint()
```

---

(continued from last page)

Property: The paint used to draw sub row divider grid lines. This will only be in the secondary dimension since sub rows can only exist in the secondary dimension.

**Returns:**

The current paint. May be null.

---

## setSubRowGridLinePaint

```
public void setSubRowGridLinePaint(java.awt.Paint paint)
```

Property: The paint used to draw sub row divider grid lines. This will only be in the secondary dimension since sub rows can only exist in the secondary dimension.

**Parameters:**

paint - The new paint. may be null.

---

## getHorizontalGridLineExceptions

```
public GridLineException[] getHorizontalGridLineExceptions()
```

Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is fininished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

**Returns:**

The exceptions or zero length if no exteptions to the grid lines exist (default). Never null.

---

## setHorizontalGridLineExceptions

```
public void setHorizontalGridLineExceptions(GridLineException[] exceptions)
```

Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is fininished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

**Parameters:**

exceptions - The exceptions or zero length if no exteptions to the grid lines exist (default). Never null.

---

## getVerticalGridLineExceptions

```
public GridLineException[] getVerticalGridLineExceptions()
```

(continued from last page)

Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is finnished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

**Returns:**

The exceptions or zero length if no exteptions to the grid lines exist (default). Never null.

---

## setVerticalGridLineExceptions

```
public void setVerticalGridLineExceptions(GridLineException[] exceptions)
```

Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is finnished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

**Parameters:**

`exceptions` - The exceptions or zero length if no exteptions to the grid lines exist (default). Never null.

---

## getSelectionMouseOverPaint

```
public java.awt.Paint getSelectionMouseOverPaint()
```

Property: The paint used to fill the cells that the mouse is over. null indicated no mouse over painting.

**Returns:**

The current paint. May be null.

**See Also:**

`setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)`

---

## setSelectionMouseOverPaint

```
public void setSelectionMouseOverPaint(java.awt.Paint paint)
```

Property: The paint used to fill the cells that the mouse is over. null indicated no mouse over painting.

**Parameters:**

`paint` - The new paint. May be null.

**See Also:**

`setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)`

---

## getSelectionMousePressedPaint

```
public java.awt.Paint getSelectionMousePressedPaint()
```

Property: The paint used to fill the cells that the is pressed over (e.g. temporary selection). null indicated no mouse press painting.

**Returns:**

The current paint. May be null.

**See Also:**

```
setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)
```

---

## setSelectionMousePressedPaint

```
public void setSelectionMousePressedPaint(java.awt.Paint paint)
```

Property: The paint used to fill the cells that the is pressed over (e.g. temporary selection). null indicated no mouse press painting.

**Parameters:**

paint - The new paint. May be null.

**See Also:**

```
setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)
```

---

## getSelectionPaint

```
public java.awt.Paint getSelectionPaint()
```

Property: The paint used to fill the cells that are selected. null indicated no selection painting.

**Returns:**

The current paint. May be null.

**See Also:**

```
setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)
```

---

## setSelectionPaint

```
public void setSelectionPaint(java.awt.Paint paint)
```

Property: The paint used to fill the cells that are selected. null indicated no selection painting.

**Parameters:**

paint - The new paint. May be null.

**See Also:**

```
setDateRangeSelection(com.miginfocom.util.dates.DateRangeI, int, boolean)
```

---

## getSelectablePaint

```
public java.awt.Paint getSelectablePaint()
```

Property: The paint used to fill the cells that are marked as selectable. null indicated no selectable painting.

**Returns:**

The current paint. May be null.

---

---

(continued from last page)

**See Also:**

`setSelectableRange(com.miginfocom.util.dates.DateRangeI)`

---

**setSelectablePaint**

```
public void setSelectablePaint(java.awt.Paint paint)
```

Property: The paint used to fill the cells that are marked as selectable. `null` indicated no selectable painting.

**Parameters:**

`paint` - The new paint. May be `null`.

**See Also:**

`setSelectableRange(com.miginfocom.util.dates.DateRangeI)`

---

**getSelectionBoundaryType**

```
public int getSelectionBoundaryType()
```

Property: The type of date range (e.g. day, hour, week) that selectionw will be rounded to. For instance if set to `RANGE_TYPE_DAY` only full days can be selected, one can not select just a couple of hours.

**Returns:**

The current boundary type. E.g. `DateRangeI.RANGE_TYPE_WEEK`.

---

**setSelectionBoundaryType**

```
public void setSelectionBoundaryType(int rangeType)
```

Property: The type of date range (e.g. day, hour, week) that selectionw will be rounded to. For instance if set to `RANGE_TYPE_DAY` only full days can be selected, one can not select just a couple of hours.

**Parameters:**

`rangeType` - The new boundary type. E.g. `DateRangeI.RANGE_TYPE_HOUR`.

---

**getOddRowPaint**

```
public java.awt.Paint getOddRowPaint()
```

Property: The paint to paint for all odd rows. May be `null`.

**Returns:**

The current paint. May be `null`.

---

**setOddRowPaint**

```
public void setOddRowPaint(java.awt.Paint paint)
```

Property: The paint to paint for all odd rows. May be `null`.

**Parameters:**

`paint` - The new paint. May be `null`.

---

**getOddColumnPaint**

```
public java.awt.Paint getOddColumnPaint()
```

Property: The paint to paint for all odd columns. May be `null`.

---

(continued from last page)

**Returns:**

The current paint. May be null.

---

**setOddColumnPaint**

```
public void setOddColumnPaint(java.awt.Paint paint)
```

Property: The paint to paint for all odd columns. May be null.

**Parameters:**

paint - The new paint. May be null.

---

**getEvenBoundaryPaint**

```
public java.awt.Paint getEvenBoundaryPaint()
```

Property: The paint used to fill all even (0, 2, 4...) date ranges of the date area. For instance every even month. The odd date ranges will get the background color of the date area since they are not painted at all. Use [getEvenRangeType\(\)](#) and [getEvenRangeTypeCount\(\)](#) to set the range type/count.

**Returns:**

The current paint. May be null.

**See Also:**

[getEvenRangeType\(\)](#)

[getEvenRangeTypeCount\(\)](#)

---

**setEvenBoundaryPaint**

```
public void setEvenBoundaryPaint(java.awt.Paint paint)
```

Property: The paint used to fill all even (0, 2, 4...) date ranges of the date area. For instance every even month. The odd date ranges will get the background color of the date area since they are not painted at all. Use [getEvenRangeType\(\)](#) and [getEvenRangeTypeCount\(\)](#) to set the range type/count.

**Parameters:**

paint - The new paint. May be null.

**See Also:**

[setEvenRangeType\(int\)](#)

[setEvenRangeTypeCount\(int\)](#)

---

**getEvenRangeType**

```
public int getEvenRangeType()
```

Property: The date range type (i.e. Unit. E.g. day, week, month) that the paint boundary have. If for instance every second month should be painted in another color this property should be set to `DateRangeI.RANGE_TYPE_MONTH`.

**Returns:**

The current date range type. E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

**setEvenRangeType**

```
public void setEvenRangeType(int rangeType)
```

Property: The date range type (i.e. Unit. E.g. day, week, month) that the paint boundary have. If for instance every second month should be painted in another color this property should be set to `DateRangeI.RANGE_TYPE_MONTH`.

(continued from last page)

**Parameters:**

rangeType - The new date range type. E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

**getEvenRangeTypeCount**

```
public int getEvenRangeTypeCount()
```

Property: How many of [getEvenRangeType\(\)](#) that should be bunched up and be called as one. If for instance this value is 3 and the type is `DateRangeI.RANGE_TYPE_DAY` then day 0, 1, 2 will be painted with the even paint. 3, 4, 5 will not be painted. 6, 7, 8 will be painted with the even paint again and so on.

**Returns:**

The current date range type count.

---

**setEvenRangeTypeCount**

```
public void setEvenRangeTypeCount(int count)
```

Property: How many of [getEvenRangeType\(\)](#) that should be bunched up and be called as one. If for instance this value is 3 and the type is `DateRangeI.RANGE_TYPE_DAY` then day 0, 1, 2 will be painted with the even paint. 3, 4, 5 will not be painted. 6, 7, 8 will be painted with the even paint again and so on.

**Parameters:**

count - The new date range type count.

---

**getDividerPaint**

```
public java.awt.Paint getDividerPaint()
```

Property: The paint used to draw separator lines between some date ranges, for instance months.

**Returns:**

The current paint. May be null.

**See Also:**

[getDividerRangeType\(\)](#)

---

**setDividerPaint**

```
public void setDividerPaint(java.awt.Paint paint)
```

Property: The paint used to draw separator lines between some date ranges, for instance months.

**Parameters:**

paint - The new paint. May be null.

**See Also:**

[setDividerRangeType\(int\)](#)

---

**getDividerRangeType**

```
public int getDividerRangeType()
```

Property: The type of the divider range (e.g. day, week, month). If the divider should be drawn between months for instance this value should be `RANGE_TYPE_MONTH`.

**Returns:**

The current divider date range type. E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

## setDividerRangeType

```
public void setDividerRangeType(int rangeType)
```

Property: The type of the divider range (e.g. day, week, month). If the divider should be drawn between months for instance this value should be `RANGE_TYPE_MONTH`.

**Parameters:**

rangeType - The new divider date range type. E.g. `DateRangeI.RANGE_TYPE_MONTH`.

---

## getMouseOverActivitiesOntop

```
public boolean getMouseOverActivitiesOntop()
```

Property: If Activites that have the mouse hovering over them should be painted on top of other activities.

**Returns:**

The current value. Default is false.

---

## setMouseOverActivitiesOntop

```
public void setMouseOverActivitiesOntop(boolean b)
```

Property: If Activites that have the mouse hovering over them should be painted on top of other activities.

**Parameters:**

b - The new value. Default is false.

---

## getSelectedActivitiesOntop

```
public boolean getSelectedActivitiesOntop()
```

Property: If Activites that are selected should be painted on top of other activities.

**Returns:**

The current value. Default is false.

---

## setSelectedActivitiesOntop

```
public void setSelectedActivitiesOntop(boolean b)
```

Property: If Activites that are selected should be painted on top of other activities.

**Parameters:**

b - The new value. Default is false.

---

## getActivityDepositoryContext

```
public String getActivityDepositoryContext()
```

Property: The context used as a key in the `com.miginfocom.calendar.activity.ActivityDepository` to get the activities that this date area should show. In the depository activities can optionally be put in different "containers" which are adressed by this context. The default context is `null`.

**Returns:**

The current context. Default is `null`.

---

(continued from last page)

---

## setActivityDepositoryContext

```
public void setActivityDepositoryContext(String context)
```

Property: The context used as a key in the `com.miginfocom.calendar.activity.ActivityDepository` to get the activities that this date area should show. In the depository activities can optionally be put in different "containers" which are adressed by this context. The default context is `null`.

**Parameters:**

`context` - The new context. Default is `null`.

---

## isShowNoFitIcon

```
public boolean isShowNoFitIcon()
```

Property: If the little icon that shows that not all activities have fitted within a date range (normally a day). Mouse presses on this icon, as well as how the icon/AShape should look like is handled by the `DefaultDateArea` that this JavBean aggregates. It is gettable by [getDefaultDateArea\(\)](#).

To register a listener for mouse events register a `com.miginfocom.ashape.interaction.InteractionListener` on the date area.

To change the AShape used for the no fit shape call

```
setDefaultNoFitShape(com.miginfocom.ashape.shapes.RootAShape) after calling this method (this method sets it to default).
```

This method basically set the shape to `null` or

```
AShapeUtil.createDefaultNoFitShape(DefaultDateArea.NO_FIT_EVENT_PROPERTY) depending on b.
```

**Returns:**

If the not fit icon will be shown. Basically checks if the shape is set to `null`.

---

## setShowNoFitIcon

```
public void setShowNoFitIcon(boolean b)
```

Property: If the little icon that shows that not all activities have fitted within a date range (normally a day). Mouse presses on this icon, as well as how the icon/AShape should look like is handled by the `DefaultDateArea` that this JavBean aggregates. It is gettable by [getDefaultDateArea\(\)](#).

To register a listener for mouse events register a `com.miginfocom.ashape.interaction.InteractionListener` on the date area.

To change the AShape used for the no fit shape call

```
setDefaultNoFitShape(com.miginfocom.ashape.shapes.RootAShape) after calling this method (this method sets it to default).
```

**Parameters:**

`b` - If the not fit icon will be shown. Basically checks if the shape is set to `null`.

---

## getSelectionType

```
public int getSelectionType()
```

Property: The type of selection that can be done on the date area background. This has nothing to do with activity selection.

**Returns:**

The old selection type. `DateArea.SELECTION_TYPE_NORMAL` or `DateArea.SELECTION_TYPE_NONE`.

---

(continued from last page)

---

## setSelectionType

```
public void setSelectionType(int type)
```

Property: The type of selection that can be done on the date area background. This has nothing to do with activity selection.

**Parameters:**

type - If the date area cells can be selected or not. `DateArea.SELECTION_TYPE_NORMAL` or `DateArea.SELECTION_TYPE_NONE`.

---

## getBackgroundPaint

```
public java.awt.Paint getBackgroundPaint()
```

Property: The background paint in the date area. Will override the normal background `Color` so that `Paint` objects can be used instead.

**Returns:**

The current background paint. May be null.

---

## setBackgroundPaint

```
public void setBackgroundPaint(java.awt.Paint p)
```

Property: The background paint in the date area. Will override the normal background `Color` so that `Paint` objects can be used instead.

**Parameters:**

p - The new background paint. May be null.

---

## getDateAreaInnerBorder

```
public javax.swing.border.Border getDateAreaInnerBorder()
```

Property: The inner border around the date area. The border will be set on the view so that parts of it will be covered if there is scrolling.

**Returns:**

The current border. May be null.

**See Also:**

[getDateAreaOuterBorder\(\)](#)

---

## setDateAreaInnerBorder

```
public void setDateAreaInnerBorder(javax.swing.border.Border b)
```

Property: The inner border around the date area. The border will be set on the view so that parts of it will be covered if there is scrolling.

**Parameters:**

b - The new border. May be null.

**See Also:**

[setDateAreaOuterBorder\(Border\)](#)

---

## getDateAreaOuterBorder

```
public javax.swing.border.Border getDateAreaOuterBorder()
```

---

(continued from last page)

Property: The outer border around the date area. The border will be installed on the scroll pane so that it will normally always be shown fully even if the view is partly scrolled away (invisible).

**Returns:**

The current border. May be null.

**See Also:**

[getDateAreaInnerBorder\(\)](#)

---

## setDateAreaOuterBorder

```
public void setDateAreaOuterBorder( javax.swing.border.Border b)
```

Property: The outer border around the date area. The border will be installed on the scroll pane so that it will normally always be shown fully even if the view is partly scrolled away (invisible).

**Parameters:**

b - The new border. May be null.

**See Also:**

[setDateAreaInnerBorder\(Border\)](#)

---

## addActivityDragResizeListener

```
public void addActivityDragResizeListener(ActivityDragResizeListener l)
```

This call is transmitted to the  
`addActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListener)`

---

## addActivityDragResizeListener

```
public void addActivityDragResizeListener(ActivityDragResizeListener l,  
boolean asWeakRef)
```

This call is transmitted to the  
`addActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListener,  
boolean)`

---

## removeActivityDragResizeListener

```
public void removeActivityDragResizeListener(ActivityDragResizeListener l)
```

This call is transmitted to the  
`removeActivityDragResizeListener(com.miginfocom.calendar.datearea.ActivityDragResizeListene  
r)`

---

## addDateChangeListener

```
public void addDateChangeListener(DateChangeListener l)
```

This call is transmitted to the `addDateChangeListener(com.miginfocom.util.dates.DateChangeListener)`

---

## addDateChangeListener

```
public void addDateChangeListener(DateChangeListener l,  
boolean asWeakRef)
```

This call is transmitted to the `addDateChangeListener(com.miginfocom.util.dates.DateChangeListener,  
boolean)`

---

---

## removeDateChangeListener

```
public void removeDateChangeListener(DateChangeListener l)
```

This call is transmitted to the  
`removeDateChangeListener(com.miginfocom.util.dates.DateChangeListener)`

---

## addInteractionListener

```
public void addInteractionListener(InteractionListener l)
```

This call is transmitted to the  
`addInteractionListener(com.miginfocom.ashape.interaction.InteractionListener)`

---

## addInteractionListener

```
public void addInteractionListener(InteractionListener l,  
    boolean asWeakRef)
```

This call is transmitted to the  
`addInteractionListener(com.miginfocom.ashape.interaction.InteractionListener, boolean)`

---

## removeInteractionListener

```
public void removeInteractionListener(InteractionListener l)
```

This call is transmitted to the  
`removeInteractionListener(com.miginfocom.ashape.interaction.InteractionListener).`

---

## addActivityMoveListener

```
public void addActivityMoveListener(ActivityMoveListener l)
```

This call is transmitted to the  
`addActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener)`

---

## addActivityMoveListener

```
public void addActivityMoveListener(ActivityMoveListener l,  
    boolean asWeakRef)
```

This call is transmitted to the  
`addActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener, boolean)`

---

## removeActivityMoveListener

```
public void removeActivityMoveListener(ActivityMoveListener l)
```

This call is transmitted to the  
`removeActivityMoveListener(com.miginfocom.calendar.datearea.ActivityMoveListener)`

---

## com.miginfocom.beans Class DateComboBean

```
java.lang.Object
  |
  +-- ComboDateSpinner
      |
      +-- com.miginfocom.beans.DateComboBean
```

```
public class DateComboBean
extends ComboDateSpinner
```

### Constructor Summary

public	<a href="#">DateComboBean()</a>
--------	---------------------------------

### Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

### Constructors

#### **DateComboBean**

```
public DateComboBean()
```

## com.miginfo.com.beans Class DateGroupConnectorBean

```
java.lang.Object
  |
  +--DateSpinnerGroup
      |
      +--com.miginfo.com.beans.DateGroupConnectorBean
```

```
public class DateGroupConnectorBean
    extends DateSpinnerGroup
```

A com.miginfo.com.calendar.spinner.DateSpinnerGroup that has this sub class only to be a JAvabeAn

### Constructor Summary

public	<a href="#">DateGroupConnectorBean()</a>
--------	--

### Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Constructors

#### DateGroupConnectorBean

```
public DateGroupConnectorBean()
```

## com.miginfocom.beans Class DateHeaderBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.AbstractHeaderBean
          |
          +- com.miginfocom.beans.DateHeaderBean
  
```

**All Implemented Interfaces:**  
Serializable

public class **DateHeaderBean**  
extends [AbstractHeaderBean](#)

A header object that wraps (aggregates) a real `com.miginfocom.calendar.header.Header` implementation.

This bean is for simplifying the usage of a header and to make the header more JavaBean-like.

### Constructor Summary

public	<a href="#">DateHeaderBean</a> ()
--------	-----------------------------------

### Method Summary

void	<a href="#">addDateChangeListener</a> ( <code>DateChangeListener l</code> ) This call is transmitted to the <code>addDateChangeListener(com.miginfocom.util.dates.DateChangeListener)</code> Note that mouse effects must be enabled.
void	<a href="#">addDateChangeListener</a> ( <code>DateChangeListener l, boolean asWeakRef</code> ) This call is transmitted to the <code>addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)</code> Note that mouse effects must be enabled.
java.awt.Color	<a href="#">getGridColor</a> () Property: The color of the grid lines.
GridLineException[]	<a href="#">getGridLineExceptions</a> () Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
Header	<a href="#">getHeader</a> ()
CellDecorationRow[]	<a href="#">getHeaderRows</a> () Property: An array of rows that makes out the different rows or columns for the header (rows for north/south headers and columns for east/west headers).
javax.swing.border.Border	<a href="#">getInnerBorder</a> () Property: The inner border around the header.
int	<a href="#">getLabelRotation</a> () Property: If the labels for the header should be rotated and if so how.

String	<a href="#">getLabelRotationRows()</a> Property: A comma separated string with the rows that are to get the property <a href="#">getLabelRotation()</a> .
boolean	<a href="#">getMouseEffectsEnabled()</a> Property: If mouse listeners should be installed on the header to make live effects enabled on the cell rows.
javax.swing.border.Border	<a href="#">getOuterBorder()</a> Property: The outer border around the header.
int	<a href="#">getRowGap()</a> The gap in pixels between the header rows.
int	<a href="#">getTextAntiAlias()</a> Property: The text antialias hint that will be set on the header's renderer before any text is drawn.
String	<a href="#">getTextAntiAliasRows()</a> Property: A comma separated string with the rows that are to get the property <a href="#">getTextAntiAlias()</a> .
void	<a href="#">removeDateChangeListener(DateChangeListener l)</a> This call is transmitted to the <code>removeDateChangeListener(com.miginfocom.util.dates.DateChangeListener)</code>
void	<a href="#">setGridColor(java.awt.Color c)</a> Property: The color of the grid lines.
void	<a href="#">setGridLineExceptions(GridLineException[] exceptions)</a> Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way.
void	<a href="#">setHeaderRows(CellDecorationRow[] rows)</a> Property: An array of rows that makes out the different rows or colums for the header (rows for north/south headers and colums for east/west headers).
void	<a href="#">setInnerBorder(javax.swing.border.Border border)</a> Property: The inner border around the header.
void	<a href="#">setLabelRotation(int rot)</a> Property: If the labels for the header should be rotated and if so how.
void	<a href="#">setLabelRotationRows(String rows)</a> Property: A comma separated string with the rows that are to get the property <a href="#">getLabelRotation()</a> .
void	<a href="#">setMouseEffectsEnabled(boolean b)</a> Property: If mouse listeners should be installed on the header to make live effects enabled on the cell rows.
void	<a href="#">setOuterBorder(javax.swing.border.Border border)</a> Property: The outer border around the header.
void	<a href="#">setRowGap(int rowGap)</a> The gap in pixels between the header rows.
void	<a href="#">setTextAntiAlias(int hint)</a> Property: The text antialias hint that will be set on the header's renderer before any text is drawn.

void	<a href="#">setTextAntiAliasRows</a> (String rows)
------	--

Property: A comma separated string with the rows that are to get the property [getTextAntiAlias\(\)](#).

#### Methods inherited from class [com.miginfocom.beans.AbstractHeaderBean](#)

[getBackgroundPaint](#), [getContainer](#), [getEdge](#), [getExpandToCorner](#), [isVisible](#), [revalidateRepaintContainer](#), [setBackgroundPaint](#), [setDateAreaContainer](#), [setEdge](#), [setExpandToCorner](#), [setVisible](#)

#### Methods inherited from class [com.miginfocom.beans.AbstractBean](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [firePropertyChangeEvent](#), [removePropertyChangeListener](#), [setIgnorePropertyChangeEvents](#)

#### Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

## Constructors

### DateHeaderBean

```
public DateHeaderBean()
```

## Methods

### getHeader

```
public Header getHeader()
```

### getGridLineExceptions

```
public GridLineException[] getGridLineExceptions()
```

Property: Grid line exceptions makes it very flexible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is finished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

#### Returns:

The exceptions or zero length if no exceptions to the grid lines exist (default). Never null.

(continued from last page)

## setGridLineExceptions

```
public void setGridLineExceptions(GridLineException[] exceptions)
```

Property: Grid line exceptions makes it very fleible to override the gridline size and color in a structured way. Examples of exceptions is:

- Every fourth grid line.
- Every grid line that is on a day boundary (any date range type).
- Every grid line on an hour boundary but only for hours 8 to 16.

You can have several exceptions (as this property is an array) each capable of the above list and if the first exception is not a "hit" then the next one will be evaluated and so on until the array is finnished and the grid line used will be the default one.

To really understand how flexible and powerful this feature is see the "Repetitions" section in the FAQ document.

### Parameters:

`exceptions` - The exceptions or zero length if no exteptions to the grid lines exist (default). Never null.

---

## getLabelRotation

```
public int getLabelRotation()
```

Property: If the labels for the header should be rotated and if so how. The rotaton can be either:

1. `TYPE_SINGLE_LINE_ROT_CW` (right 90 degrees)
2. `TYPE_SINGLE_LINE_ROT_CCW` (left 90 degrees)
3. `TYPE_SINGLE_LINE` (normal text)

### Returns:

The rotation. Default is `TextAShape.TYPE_SINGLE_LINE` which means no rotation.

---

## setLabelRotation

```
public void setLabelRotation(int rot)
```

Property: If the labels for the header should be rotated and if so how. The rotaton can be either:

1. `TYPE_SINGLE_LINE_ROT_CW` (right 90 degrees)
2. `TYPE_SINGLE_LINE_ROT_CCW` (left 90 degrees)
3. `TYPE_SINGLE_LINE` (normal text)

This method will reinitialize the header if the value is changed but do nothing if it's the same.

### Parameters:

`rot` - The rotation. Default is `TextAShape.TYPE_SINGLE_LINE` which means no rotation.

---

## getLabelRotationRows

```
public String getLabelRotationRows()
```

Property: A comma separated string with the rows that are to get the property [getLabelRotation\(\)](#). E.g. "1,2,4". A value of null, "" and any illegal value means "all rows".

### Returns:

(continued from last page)

The current value.

---

## setLabelRotationRows

```
public void setLabelRotationRows(String rows)
```

Property: A comma separated string with the rows that are to get the property [getLabelRotation\(\)](#). E.g. "1,2,4". A value of null, "" and any illegal value means "all rows".

This method will reinitialize the header if the value is changed but do nothing if it's the same.

**Parameters:**

rows - The new value.

---

## getTextAntiAlias

```
public int getTextAntiAlias()
```

Property: The text antialias hint that will be set on the header's renderer before any text is drawn. If the value is `GfxUtil.AA_HINT_INHERIT` the value will not be changed and thus the default value for the graphics environment will be used.

Normal values are (but other values may apply at a later time, for instance to set sub pixel anti aliasing):

1. `AA_HINT_ON`
2. `AA_HINT_OFF`
3. `AA_HINT_LCD_GASP`

**Returns:**

The current value.

---

## setTextAntiAlias

```
public void setTextAntiAlias(int hint)
```

Property: The text antialias hint that will be set on the header's renderer before any text is drawn. If the value is `GfxUtil.AA_HINT_INHERIT` the value will not be changed and thus the default value for the graphics environment will be used.

Normal values are (but other values may apply at a later time, for instance to set sub pixel anti aliasing):

1. `AA_HINT_ON`
2. `AA_HINT_OFF`
3. `AA_HINT_LCD_GASP`

This method will reinitialize the header if the value is changed but do nothing if it's the same.

**Parameters:**

hint - The new value.

---

## getTextAntiAliasRows

```
public String getTextAntiAliasRows()
```

Property: A comma separated string with the rows that are to get the property [getTextAntiAlias\(\)](#). E.g. "1,2,4". A value of null, "" and any illegal value means "all rows".

**Returns:**

(continued from last page)

The current value.

---

## setTextAntiAliasRows

```
public void setTextAntiAliasRows(String rows)
```

Property: A comma separated string with the rows that are to get the property [getTextAntiAlias\(\)](#). E.g. "1,2,4". A value of null, "" and any illegal value means "all rows".

This method will reinitialize the header if the value is changed but do nothing if it's the same.

### Parameters:

rows - The new value.

---

## getGridColor

```
public java.awt.Color getGridColor()
```

Property: The color of the grid lines. If null no lines will be drawn.

Note! The grid color if set will show over everything so that no cells will look merged. To show a grid where cell rows can have cells that span more than one row/column use the background paint of the whole header to set the grid color and leave this grid color to null. This will make it possible to create headers like in [getHeaderRows\(\)](#) Javadoc. Also see [AbstractHeaderBean.setBackgroundPaint\(Paint\)](#)

### Returns:

The current grid line color. May be null.

---

## setGridColor

```
public void setGridColor(java.awt.Color c)
```

Property: The color of the grid lines. If null no lines will be drawn.

Note! The grid color if set will show over everything so that no cells will look merged. To show a grid where cell rows can have cells that span more than one row/column use the background paint of the whole header to set the grid color and leave this grid color to null. This will make it possible to create headers like in [getHeaderRows\(\)](#) Javadoc. Also see [AbstractHeaderBean.setBackgroundPaint\(Paint\)](#)

### Parameters:

c - The new grid line color. May be null.

---

## getRowGap

```
public int getRowGap()
```

The gap in pixels between the header rows.

### Returns:

The gap in pixels between the header rows.

### Since:

6.0

---

## setRowGap

```
public void setRowGap(int rowGap)
```

The gap in pixels between the header rows.

### Parameters:

---

(continued from last page)

rowGap - The gap in pixels between the header rows.

**Since:**

6.0

---

## getInnerBorder

```
public javax.swing.border.Border getInnerBorder()
```

Property: The inner border around the header. The border will be set on the view so that parts of it will be covered if there is scrolling.

**Returns:**

The current border. May be null.

**See Also:**

[getOuterBorder\(\)](#)

---

## setInnerBorder

```
public void setInnerBorder(javax.swing.border.Border border)
```

Property: The inner border around the header. The border will be set on the view so that parts of it will be covered if there is scrolling.

**Parameters:**

border - The new border. May be null.

**See Also:**

[setOuterBorder\(Border\)](#)

---

## getOuterBorder

```
public javax.swing.border.Border getOuterBorder()
```

Property: The outer border around the header. The border will be installed on the scroll pane so that it will normally always be shown fully even if the view is partly scrolled away (invisible).

**Returns:**

The current border. May be null.

**See Also:**

[getInnerBorder\(\)](#)

---

## setOuterBorder

```
public void setOuterBorder(javax.swing.border.Border border)
```

Property: The outer border around the header. The border will be installed on the scroll pane so that it will normally always be shown fully even if the view is partly scrolled away (invisible).

**Parameters:**

border - The new border. May be null.

**See Also:**

[setInnerBorder\(Border\)](#)

---



---

## getMouseEffectsEnabled

```
public boolean getMouseEffectsEnabled()
```

Property: If mouse listeners should be installed on the header to make live effects enabled on the cell rows. This must be enabled for any effects to be visible. The actual effects must also be set on the `com.miginfocom.calendar.header.CellDecorationRows` of course.

If date selection in the header is to be listened for this must be enabled.

### Returns:

If currently enabled.

### See Also:

```
addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)
```

---

## setMouseEffectsEnabled

```
public void setMouseEffectsEnabled(boolean b)
```

Property: If mouse listeners should be installed on the header to make live effects enabled on the cell rows. This must be enabled for any effects to be visible. The actual effects must also be set on the `com.miginfocom.calendar.header.CellDecorationRows` of course.

If date selection in the header is to be listened for this must be enabled.

### Parameters:

b - If enabled.

### See Also:

```
addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)
```

---

## addDateChangeListener

```
public void addDateChangeListener(DateChangeListener l)
```

This call is transmitted to the `addDateChangeListener(com.miginfocom.util.dates.DateChangeListener)`

Note that mouse effects must be enabled. See [setMouseEffectsEnabled\(boolean\)](#)

### See Also:

```
addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)
```

---

## addDateChangeListener

```
public void addDateChangeListener(DateChangeListener l,  
    boolean asWeakRef)
```

This call is transmitted to the `addDateChangeListener(com.miginfocom.util.dates.DateChangeListener, boolean)`

Note that mouse effects must be enabled. See [setMouseEffectsEnabled\(boolean\)](#)

---

## removeDateChangeListener

```
public void removeDateChangeListener(DateChangeListener l)
```

This call is transmitted to the `removeDateChangeListener(com.miginfocom.util.dates.DateChangeListener)`

---

## com.miginfocom.beans Class DatePickerBean

```
java.lang.Object
  |
  +-- DatePicker
       |
       +-- com.miginfocom.beans.DatePickerBean
```

```
public class DatePickerBean
  extends DatePicker
```

This is a visual JavaBean version of `com.miginfocom.calendar.DatePicker`.

### Constructor Summary

public	<a href="#">DatePickerBean()</a>
--------	----------------------------------

### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

### Constructors

#### **DatePickerBean**

```
public DatePickerBean()
```

## com.miginfo.com.beans Class DateSpinnerBean

```
java.lang.Object
  |
  +- SlimDateSpinner
     |
     +- com.miginfo.com.beans.DateSpinnerBean
```

```
public class DateSpinnerBean
extends SlimDateSpinner
```

A JavaBean component that shows a date field and arrows.

### Constructor Summary

public	<a href="#">DateSpinnerBean()</a>
--------	-----------------------------------

### Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

### Constructors

#### **DateSpinnerBean**

```
public DateSpinnerBean()
```

## com.miginfocom.beans Class DemoDataBean

```
java.lang.Object
  |
  +-Category
      |
      +-com.miginfocom.beans.DemoDataBean
```

**All Implemented Interfaces:**  
Serializable

```
public class DemoDataBean
  extends Category
  implements Serializable
```

A JavaBean that can be used to create some random demo activities.

This class should only be used to test activity handling. Performance is sub-par for anything else since the demo data will be recreated for every setXxx method called.

The algorithm start from the earliest time (set in the propertis of this class) and the randomizing values (normally between some min/max value) for all properties of the activity until the end time is reached.

**See Also:**

```
createActivities(com.miginfocom.util.dates.DateRangeI, String[], String[], Object[],
  Object[][]), int, int, int, int, int, int)
```

### Constructor Summary

public	<a href="#">DemoDataBean()</a>
--------	--------------------------------

### Method Summary

void	<a href="#">createDemoData()</a> This method will create the demo data.
ImmutableDateRange	<a href="#">geDataDateRange()</a> Property: The date range that the demo data will be created for.
String	<a href="#">getActivityCategories()</a> Property: A comma separated list of main categories that all activities will get one (random) of.
String	<a href="#">getActivityDepositoryContext()</a> Property: The context used to get the depository to put all generated demo activities in.
String	<a href="#">getCategories()</a> Property: A comma separated list with special chars of main categories that will be created in the <code>com.miginfocom.calendar.category.CategoryDepository</code> .
String	<a href="#">getDescriptionTexts()</a> Property: A comma separated list of description texts that will randomly be selected from for every created activity.
int	<a href="#">getGapMinutesMax()</a> Property: The maximum minutes that should pass between two generated activities.

int	<a href="#">getGapMinutesMin()</a> Property: The minimum minutes that has to pass between two generated activities.
int	<a href="#">getLengthMinutesMax()</a> Property: The maximum number of minutes that an activity should span.
int	<a href="#">getLengthMinutesMin()</a> Property: The minimum number of minutes that an activity should span.
Locale	<a href="#">getLocale()</a> Property: The locale to set for every created <code>com.miginfocom.calendar.activity.Activity</code> .
int	<a href="#">getMaxActivityCount()</a> Property: The maximum number of activities generated.
int	<a href="#">getRoundToMinutes()</a> Property: The number of minutes to round to.
String	<a href="#">getSummaryTexts()</a> Property: A comma separated list of summaries that will randomly be selected from for every created activity.
TimeZone	<a href="#">getTimeZone()</a> Property: The time zone to set for every created <code>com.miginfocom.calendar.activity.Activity</code> .
boolean	<a href="#">isDemoDataCreated()</a> Returns if this bean should generate demo data or not.
boolean	<a href="#">isEnabled()</a> Property: If the demo data bean is enabled or not.
boolean	<a href="#">isOnlyDesignTime()</a> Property: If the demo date should only be created in a design time environment.
void	<a href="#">removeDemoData()</a> This method will remove the demo data.
void	<a href="#">setActivityCategories(String actCats)</a> Property: A comma separated list of main categories that all activities will get one (random) of.
void	<a href="#">setActivityDepositoryContext(String ctx)</a> Property: The context used to get the depository to put all generated demo activities in.
void	<a href="#">setCategories(String cats)</a> Property: A comma separated list with special chars of main categories that will be created in the <code>com.miginfocom.calendar.category.CategoryDepository</code> .
void	<a href="#">setDataDateRange(ImmutableDateRange dateRange)</a> Property: The date range that the demo data will be created for.
void	<a href="#">setDescriptionTexts(String descrTexts)</a> Property: A comma separated list of description texts that will randomly be selected from for every created activity.
void	<a href="#">setEnabled(boolean b)</a> Property: If the demo data bean is enabled or not.

void	<a href="#">setGapMinutesMax</a> (int minutes) Property: The maximum minutes that should pass between two generated activities.
void	<a href="#">setGapMinutesMin</a> (int minutes) Property: The minimum minutes that has to pass between two generated activities.
void	<a href="#">setLengthMinutesMax</a> (int minutes) Property: The maximum number of minutes that an activity should span.
void	<a href="#">setLengthMinutesMin</a> (int minutes) Property: The minimum number of minutes that an activity should span.
void	<a href="#">setLocale</a> (Locale locale) Property: The locale to set for every created com.miginfocom.calendar.activity.Activity.
void	<a href="#">setMaxActivityCount</a> (int count) Property: The maximum number of activities generated.
void	<a href="#">setOnlyDesignTime</a> (boolean b) Property: If the demo date should only be created in a design time environment.
void	<a href="#">setRoundToMinutes</a> (int minutes) Property: The number of minutes to round to.
void	<a href="#">setSummaryTexts</a> (String sumTexts) Property: A comma separated list of summaries that will randomly be selected from for every created activity.
void	<a href="#">setTimeZone</a> (TimeZone timeZone) Property: The time zone to set for every created com.miginfocom.calendar.activity.Activity.

#### Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### DemoDataBean

```
public DemoDataBean()
```

## Methods

### isEnabled

```
public boolean isEnabled()
```

Property: If the demo data bean is enabled or not. If not enabled the demo data will never be created.

#### Returns:

If the demo data bean is enabled or not.

---

(continued from last page)

## setEnabled

```
public void setEnabled(boolean b)
```

Property: If the demo data bean is enabled or not. If not enabled the demo data will never be created.

**Parameters:**

b - If the demo data bean should be enabled or not.

---

## isDemoDataCreated

```
public boolean isDemoDataCreated()
```

Returns if this bean should generate demo data or not.

**Returns:**

true is demo data has been generated.

---

## createDemoData

```
public void createDemoData()
```

This method will create the demo data.

**See Also:**

[getInstance\(String\)](#)  
[setEnabled\(boolean\)](#)

---

## removeDemoData

```
public void removeDemoData()
```

This method will remove the demo data.

**See Also:**

[getInstance\(String\)](#)

---

## getActivityRepositoryContext

```
public String getActivityRepositoryContext()
```

Property: The context used to get the repository to put all generated demo activities in.

**Returns:**

The current context. May be null.

**See Also:**

[getInstance\(String\)](#)

---

## setActivityRepositoryContext

```
public void setActivityRepositoryContext(String ctx)
```

Property: The context used to get the repository to put all generated demo activities in.

This method will recreated the demo data which may take some time.

**Parameters:**

ctx - The new context. May be null.

---

---

(continued from last page)

**See Also:**

```
getInstance(String)
createActivities(com.miginfocom.util.dates.DateRangeI, String[], String[], Object[],
Object[][][], int, int, int, int, int, int)
```

---

## getCategories

```
public String getCategories()
```

Property: A comma separated list with special chars of main categories that will be created in the `com.miginfocom.calendar.category.CategoryDepository`.

**Returns:**

The current comma separated list with categories (and special chars).

**See Also:**

[setCategories\(String\)](#)

---

## setCategories

```
public void setCategories(String cats)
```

Property: A comma separated list with special chars of main categories that will be created in the `com.miginfocom.calendar.category.CategoryDepository`.

The list can be used to create a hierarchy (tree) of categories.

This method will recreated the demo data which may take some time.

**Parameters:**

`cats` - The comma separated category ids. For every element, if first char is a "+" the category `catIDs[catIx]` will be a folder beneath `addToNode` and the rest will be added to this new fonder. If the first char is one or more "-" the category `catIDs[catIx]` will be added to the parent that many levels up from `addToNode`. If not "+" or "-" then `catIDs[catIx]` will just be added to `addToNode`.

"-" and "+" can be combined but "-" must always be first if so. For instacne "-+Folder" creates a folder in the parent category.

---

## getActivityCategories

```
public String getActivityCategories()
```

Property: A comma separated list of main categories that all activities will get one (random) of.

**Returns:**

The current comma separated list. May be null.

**See Also:**

```
createActivities(com.miginfocom.util.dates.DateRangeI, String[], String[], Object[],
Object[][][], int, int, int, int, int, int)
```

---

## setActivityCategories

```
public void setActivityCategories(String actCats)
```

Property: A comma separated list of main categories that all activities will get one (random) of.

This method will recreated the demo data which may take some time.

**Parameters:**

`actCats` - The new comma separated list. May be null in which case the activities will get no categories.

---

---

(continued from last page)

**See Also:**

`createActivities(com.miginfocom.util.dates.DateRangeI, String[], String[], Object[], Object[][])`, `int`, `int`, `int`, `int`, `int`, `int`

---

## getSummaryTexts

```
public String getSummaryTexts()
```

Property: A comma separated list of summaries that will randomly be selected from for every created activity.

**Returns:**

The current list. Never null but may be "":

---

## setSummaryTexts

```
public void setSummaryTexts(String sumTexts)
```

Property: A comma separated list of summaries that will randomly be selected from for every created activity.

This method will recreated the demo data which may take some time.

**Parameters:**

`sumTexts` - The new list. null is converted to "":

---

## getDescriptionTexts

```
public String getDescriptionTexts()
```

Property: A comma separated list of description texts that will randomly be selected from for every created activity.

**Returns:**

The current list. Never null but may be "":

---

## setDescriptionTexts

```
public void setDescriptionTexts(String descrTexts)
```

Property: A comma separated list of description texts that will randomly be selected from for every created activity.

This method will recreated the demo data which may take some time.

**Parameters:**

`descrTexts` - The new list. null is converted to "":

---

## getTimeZone

```
public TimeZone getTimeZone()
```

Property: The time zone to set for every created `com.miginfocom.calendar.activity.Activity`.

**Returns:**

The current time zone used. May be null.

---

## setTimeZone

```
public void setTimeZone(TimeZone timeZone)
```

---

---

(continued from last page)

Property: The time zone to set for every created `com.miginfocom.calendar.activity.Activity`.

This method will recreated the demo data which may take some time.

**Parameters:**

`timeZone` - The new time zone to use. May be null.

---

## getLocale

```
public Locale getLocale()
```

Property: The locale to set for every created `com.miginfocom.calendar.activity.Activity`.

**Returns:**

The current locale used. May be null.

---

## setLocale

```
public void setLocale(Locale locale)
```

Property: The locale to set for every created `com.miginfocom.calendar.activity.Activity`.

This method will recreated the demo data which may take some time.

**Parameters:**

`locale` - The new time zone to use. May be null.

---

## getDataDateRange

```
public ImmutableDateRange getDataDateRange()
```

Property: The date range that the demo data will be created for. Not null.

**Returns:**

The current range. Not null.

---

## setDataDateRange

```
public void setDataDateRange(ImmutableDateRange dateRange)
```

Property: The date range that the demo data will be created for. Not null.

The demo data will not be recreated. Call `recreateDemoData()` for that.

**Parameters:**

`dateRange` - The new range. Not null.

---

## getGapMinutesMin

```
public int getGapMinutesMin()
```

Property: The minimum minutes that has to pass between two generated activities. If a negative value they may sometimes overlap.

**Returns:**

The current number of minutes. May be negative.

---

---

(continued from last page)

## setGapMinutesMin

```
public void setGapMinutesMin(int minutes)
```

Property: The minimum minutes that has to pass between two generated activities. If a negative value they may sometimes overlap.

This method will recreated the demo data which may take some time.

**Parameters:**

`minutes` - The new number of minutes. May be negative.

---

## getGapMinutesMax

```
public int getGapMinutesMax()
```

Property: The maximum minutes that should pass between two generated activities. Should not be negative.

**Returns:**

The current number of minutes. Not negative.

---

## setGapMinutesMax

```
public void setGapMinutesMax(int minutes)
```

Property: The maximum minutes that should pass between two generated activities. Should not be negative.

This method will recreated the demo data which may take some time.

**Parameters:**

`minutes` - The new number of minutes. Not negative.

---

## getRoundToMinutes

```
public int getRoundToMinutes()
```

Property: The number of minutes to round to. For instance if 5 all activities start and end times will be rounded to five minutes intervals (0, 5, 10, 15 etc..).

**Returns:**

The current value.

---

## setRoundToMinutes

```
public void setRoundToMinutes(int minutes)
```

Property: The number of minutes to round to. For instance if 5 all activities start and end times will be rounded to five minutes intervals (0, 5, 10, 15 etc..).

This method will recreated the demo data which may take some time.

**Parameters:**

`minutes` - The new value.

---

## getLengthMinutesMin

```
public int getLengthMinutesMin()
```

Property: The minimum number of minutes that an activity should span.

---

---

(continued from last page)

**Returns:**

The current value.

---

**setLengthMinutesMin**

```
public void setLengthMinutesMin(int minutes)
```

Property: The minimum number of minutes that an activity should span.

This method will recreated the demo data which may take some time.

**Parameters:**

minutes - The new value.

---

**getLengthMinutesMax**

```
public int getLengthMinutesMax()
```

Property: The maximum number of minutes that an activity should span.

**Returns:**

The current value.

---

**setLengthMinutesMax**

```
public void setLengthMinutesMax(int minutes)
```

Property: The maximum number of minutes that an activity should span.

This method will recreated the demo data which may take some time.

**Parameters:**

minutes - The new value.

---

**getMaxActivityCount**

```
public int getMaxActivityCount()
```

Property: The maximum number of activities generated. This is mostly to avoid creation of too many due to choosing the the properties for this bean badly. It's a fail safe...

**Returns:**

The current value. Default is 200.

---

**setMaxActivityCount**

```
public void setMaxActivityCount(int count)
```

Property: The maximum number of activities generated. This is mostly to avoid creation of too many due to choosing the the properties for this bean badly. It's a fail safe...

This method will recreated the demo data which may take some time.

**Parameters:**

count - The new value. Default is 200.

---

**isOnlyDesignTime**

```
public boolean isOnlyDesignTime()
```

---

(continued from last page)

Property: If the demo date should only be created in a design time environment. This usually means in the designer of the IDE.

**Returns:**

The current value. Default is false.

---

## **setOnlyDesignTime**

```
public void setOnlyDesignTime(boolean b)
```

Property: If the demo date should only be created in a design time environment. This usually means in the designer of the IDE.

This method will recreated the demo data which may take some time.

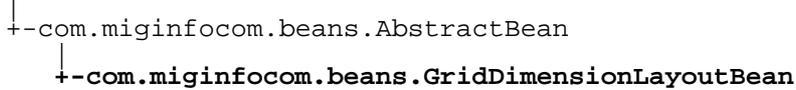
**Parameters:**

b - The new value.

## com.miginfocom.beans

# Class GridDimensionLayoutBean

java.lang.Object



### All Implemented Interfaces:

Serializable

```
public class GridDimensionLayoutBean
extends AbstractBean
```

A bean that shows set the properties for how a dimension (horizontal or vertical) of a `com.miginfocom.calendar.grid.Grid` should be laied out.

It set the size specs for the rows (cells) in the dimension it describes.

It has three major types of rows:

1. **Normal** - Basically a row that isn't any of the other types.
2. **Compressed** - A row designated to be compressed by the properties `CompressRowsFormat` and `CompressRowsRanges`
3. **Sub row** - A row (only for the secondary dimension) that is a sub row of another sub row or one of the main rows. Main rows are the first level cells in the grid.
- 4.

## Field Summary

public static final	<a href="#">ABSOLUTE_CELLS</a> Value: 0
public static final	<a href="#">DATE</a> Value: 3
public static final	<a href="#">DAY_OF_WEEK</a> Value: 2
public static final	<a href="#">TIME_OF_DAY</a> Value: 1

## Constructor Summary

public	<a href="#">GridDimensionLayoutBean()</a> Constructor.
--------	---

## Method Summary

GridDimensionLayout	<a href="#">createLayout</a> (Grid grid, int dimIx) Returns the layout that this bean represents.
---------------------	--

int	<a href="#">getCompressRowsFormat()</a> Property: The type (unit) for the CompressRowsRanges property.
String	<a href="#">getCompressRowsRanges()</a> Property: A string that describes what rows, or row intervals, that should be compressed.
SizeSpec	<a href="#">getRowSizeCompressed()</a> Property: The minimum, maximum and preferred size for a compressed row.
SizeSpec	<a href="#">getRowSizeNormal()</a> Property: The minimum, maximum and preferred size for a normal row (not compressed).
SizeSpec	<a href="#">getSubRowSizeExpandedFolder()</a> Property: The minimum, maximum and preferred size for a sub row that <b>has</b> sub rows itself and the row is considered expanded.
SizeSpec	<a href="#">getSubRowSizeFoldedFolder()</a> Property: The minimum, maximum and preferred size for a sub row that <b>has</b> sub rows itself and the row is considered folded.
SizeSpec	<a href="#">getSubRowSizeLeaf()</a> Property: The minimum, maximum and preferred size for a sub row that has no sub rows itself (it's a leaf).
boolean	<a href="#">isExpandRowsToFit()</a> Property: If the rows in the dimension that this object represents should be expanded to fit the available space.
boolean	<a href="#">isExpandSubRowsToFit()</a> Property: If the <b>sub</b> -rows should be expanded to fit the available space.
void	<a href="#">setCompressRowsFormat(int format)</a> Property: The type (unit) for the CompressRowsRanges property.
void	<a href="#">setCompressRowsRanges(String s)</a> Property: A string that describes what rows, or row intervals, that should be compressed.
void	<a href="#">setExpandRowsToFit(boolean b)</a> Property: If the rows in the dimension that this object represents should be expanded to fit the available space.
void	<a href="#">setExpandSubRowsToFit(boolean b)</a> Property: If the <b>sub</b> -rows should be expanded to fit the available space.
void	<a href="#">setRowSizeCompressed(SizeSpec size)</a> Property: The minimum, maximum and preferred size for a compressed row.
void	<a href="#">setRowSizeNormal(SizeSpec size)</a> Property: The minimum, maximum and preferred size for a normal row (not compressed).
void	<a href="#">setSubRowSizeExpandedFolder(SizeSpec size)</a> Property: The minimum, maximum and preferred size for a sub row that <b>has</b> sub rows itself and the row is considered expanded.
void	<a href="#">setSubRowSizeFoldedFolder(SizeSpec size)</a> Property: The minimum, maximum and preferred size for a sub row that <b>has</b> sub rows itself and the row is considered folded.
void	<a href="#">setSubRowSizeLeaf(SizeSpec size)</a> Property: The minimum, maximum and preferred size for a sub row that has no sub rows itself (it's a leaf).

**Methods inherited from class** com.miginfocom.beans.AbstractBean

```
addPropertyChangeListener, addPropertyChangeListener, firePropertyChangeEvent,
removePropertyChangeListener, setIgnorePropertyChangeEvents
```

**Methods inherited from class** java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

## Fields

### **ABSOLUTE\_CELLS**

```
public static final int ABSOLUTE_CELLS
```

Constant value: **0**

### **TIME\_OF\_DAY**

```
public static final int TIME_OF_DAY
```

Constant value: **1**

### **DAY\_OF\_WEEK**

```
public static final int DAY_OF_WEEK
```

Constant value: **2**

### **DATE**

```
public static final int DATE
```

Constant value: **3**

## Constructors

### **GridDimensionLayoutBean**

```
public GridDimensionLayoutBean()
```

Constructor.

## Methods

### **createLayout**

```
public GridDimensionLayout createLayout(Grid grid,
int dimIx)
```

Returns the layout that this bean represents.

---

(continued from last page)

**Returns:**

The layout that this bean represents.

---

**isExpandRowsToFit**

```
public boolean isExpandRowsToFit()
```

Property: If the rows in the dimension that this object represents should be expanded to fit the available space. Note that this is only used if the size properties for the rows themselves doesn't specify anything else.

**Returns:**

The current value, `true` is default.

---

**setExpandRowsToFit**

```
public void setExpandRowsToFit(boolean b)
```

Property: If the rows in the dimension that this object represents should be expanded to fit the available space. Note that this is only used if the size properties for the rows themselves doesn't specify anything else.

**Parameters:**

b - The new value, `true` is default.

---

**isExpandSubRowsToFit**

```
public boolean isExpandSubRowsToFit()
```

Property: If the **sub**-rows should be expanded to fit the available space. Note that this is only used if the size properties for the rows themselves doesn't specify anything else. Also note that this value is only interesting if this bean represents the secondary dimension, since only the secondary dimension has sub rows.

**Returns:**

The current value, `true` is default.

---

**setExpandSubRowsToFit**

```
public void setExpandSubRowsToFit(boolean b)
```

Property: If the **sub**-rows should be expanded to fit the available space. Note that this is only used if the size properties for the rows themselves doesn't specify anything else. Also note that this value is only interesting if this bean represents the secondary dimension, since only the secondary dimension has sub rows.

**Parameters:**

b - The new value, `true` is default.

---

**getCompressRowsRanges**

```
public String getCompressRowsRanges()
```

Property: A string that describes what rows, or row intervals, that should be compressed. The unit used can be set with [setCompressRowsFormat\(int\)](#).

The string is comma separated intervals using english locale/words/formatting. For example:

- "00.00-06.00,18.00-24.00" (time of day)
  - "0-10,14-17,30-40,42,44" (absolute cells)
  - "mon-wed,sat-sun" (week days)
  - "20041231-20050131,20060231-2007231" (dates, yyyyMMdd)
-

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**Returns:**

The current range(s). Not null but can be empty.

---

**setCompressRowsRanges**

```
public void setCompressRowsRanges(String s)
```

Property: A string that describes what rows, or row intervals, that should be compressed. The unit used can be set with [setCompressRowsFormat\(int\)](#).

The string is comma separated intervals using english locale/words/formatting. For example:

- "00.00-06.00,18.00-24.00" (time of day)
- "0-10,14-17,30-40,42,44" (absolute cells)
- "mon-wed,sat-sun" (week days)
- "20041231-20050131,20060231-2007231" (dates, yyyyMMdd)

**Parameters:**

s - The new range(s). Not null but can be empty.

---

**getCompressRowsFormat**

```
public int getCompressRowsFormat()
```

Property: The type (unit) for the `CompressRowsRanges` property.

Valid formats are:

- [ABSOLUTE\\_CELLS](#) - The cell numbers starting from 0.
- [TIME\\_OF\\_DAY](#) - Time of day of the form: "HH.mm"
- [DAY\\_OF\\_WEEK](#) - The day of week. It's enough to use the first two letters. E.g "mo" or "tue".
- [DATE](#) - The date without any time on the form: "yyyyMMdd"

**Returns:**

The current format. [ABSOLUTE\\_CELLS](#) is default.

---

**setCompressRowsFormat**

```
public void setCompressRowsFormat(int format)
```

Property: The type (unit) for the `CompressRowsRanges` property.

Valid formats are:

- [ABSOLUTE\\_CELLS](#) - The cell numbers starting from 0.
- [TIME\\_OF\\_DAY](#) - Time of day of the form: "HH.mm"
- [DAY\\_OF\\_WEEK](#) - The day of week. It's enough to use the first two letters. E.g "mo" or "tue".
- [DATE](#) - The date without any time on the form: "yyyyMMdd"

**Parameters:**

format - The new format. [ABSOLUTE\\_CELLS](#) is default.

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---

## getRowSizeNormal

```
public SizeSpec getRowSizeNormal()
```

Property: The minimum, maximum and preferred size for a normal row (not compressed).

**Returns:**

The current size spec. Not null but the minimum, maximum and preferred size in the spec can all be null.

**See Also:**

SizeSpec

---

## setRowSizeNormal

```
public void setRowSizeNormal(SizeSpec size)
```

Property: The minimum, maximum and preferred size for a normal row (not compressed).

**Parameters:**

size - The new size spec. Not null but the minimum, maximum and preferred size in the spec can all be null. The value will be stored and not cloned (it's final so this shouldn't matter though).

**See Also:**

SizeSpec

---

## getRowSizeCompressed

```
public SizeSpec getRowSizeCompressed()
```

Property: The minimum, maximum and preferred size for a compressed row. Which rows that are compressed are specified by the properties `CompressRowsFormat` and `CompressRowsRanges`.

**Returns:**

The current size spec. Not null but the minimum, maximum and preferred size in the spec can all be null.

**See Also:**

SizeSpec

[setCompressRowsFormat\(int\)](#)

[setCompressRowsRanges\(String\)](#)

---

## setRowSizeCompressed

```
public void setRowSizeCompressed(SizeSpec size)
```

Property: The minimum, maximum and preferred size for a compressed row. Which rows that are compressed are specified by the properties `CompressRowsFormat` and `CompressRowsRanges`.

**Parameters:**

size - The new size spec. Not null but the minimum, maximum and preferred size in the spec can all be null. The value will be stored and not cloned (it's final so this shouldn't matter though).

**See Also:**

SizeSpec

[setCompressRowsFormat\(int\)](#)

[setCompressRowsRanges\(String\)](#)

---

## getSubRowSizeLeaf

```
public SizeSpec getSubRowSizeLeaf()
```

---

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Property: The minimum, maximum and preferred size for a sub row that has no sub rows itself (it's a leaf). This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Returns:**

The current size spec. Not null but the minimum, maximum and preferred size in the spec can all be null.

**See Also:**

SizeSpec

setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)

---

## setSubRowSizeLeaf

```
public void setSubRowSizeLeaf(SizeSpec size)
```

Property: The minimum, maximum and preferred size for a sub row that has no sub rows itself (it's a leaf). This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Parameters:**

size - The new size spec. Not null but the minimum, maximum and preferred size in the spec can all be null. The value will be stored and not cloned (it's final so this shouldn't matter though).

**See Also:**

SizeSpec

setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)

---

## getSubRowSizeExpandedFolder

```
public SizeSpec getSubRowSizeExpandedFolder()
```

Property: The minimum, maximum and preferred size for a sub row that **has** sub rows itself and the row is considered expanded. This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Returns:**

The current size spec. Not null but the minimum, maximum and preferred size in the spec can all be null.

**See Also:**

SizeSpec

setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)

setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)

---

## setSubRowSizeExpandedFolder

```
public void setSubRowSizeExpandedFolder(SizeSpec size)
```

Property: The minimum, maximum and preferred size for a sub row that **has** sub rows itself and the row is considered expanded. This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Parameters:**

size - The new size spec. Not null but the minimum, maximum and preferred size in the spec can all be null. The value will be stored and not cloned (it's final so this shouldn't matter though).

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**See Also:**

```
SizeSpec  
setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)
```

---

## getSubRowSizeFoldedFolder

```
public SizeSpec getSubRowSizeFoldedFolder()
```

Property: The minimum, maximum and preferred size for a sub row that **has** sub rows itself and the row is considered folded. This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Returns:**

The current size spec. Not null but the minimum, maximum and preferred size in the spec can all be null.

**See Also:**

```
SizeSpec  
setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)
```

---

## setSubRowSizeFoldedFolder

```
public void setSubRowSizeFoldedFolder(SizeSpec size)
```

Property: The minimum, maximum and preferred size for a sub row that **has** sub rows itself and the row is considered folded. This is only interesting (hence used) if this bean denotes the layout for the secondary dimension since only the secondary dimension can have sub rows.

**Parameters:**

`size` - The new size spec. Not null but the minimum, maximum and preferred size in the spec can all be null. The value will be stored and not cloned (it's final so this shouldn't matter though).

**See Also:**

```
SizeSpec  
setSubRowSizeExpandedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeFoldedFolder(com.miginfocom.util.gfx.geometry.SizeSpec)  
setSubRowSizeLeaf(com.miginfocom.util.gfx.geometry.SizeSpec)
```

## com.miginfocom.beans

# Class NorthCategoryHeaderBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.AbstractHeaderBean
          |
          +- com.miginfocom.beans.CategoryHeaderBean
              |
              +- com.miginfocom.beans.NorthCategoryHeaderBean
  
```

### All Implemented Interfaces:

Serializable

```

public class NorthCategoryHeaderBean
extends CategoryHeaderBean
  
```

Exactly same as a [CategoryHeaderBean](#) but with a different set of default optimized to get started with a top header faster.

[CategoryHeaderBean](#) can be configured to work as both top or left headers, but the properties to get it to look good for either is quite different.

## Constructor Summary

public	<a href="#">NorthCategoryHeaderBean</a> ()
--------	--

### Methods inherited from class [com.miginfocom.beans.CategoryHeaderBean](#)

[addInteractionListener](#), [addInteractionListener](#), [getCategoryDepth](#), [getCellBorder](#), [getCellCursor](#), [getForcedHeaderSize](#), [getHeader](#), [getHeaderLevels](#), [getKnobCursor](#), [getKnobExpandedImage](#), [getKnobFoldedImage](#), [getKnobFoldOnPress](#), [getKnobImageAlignX](#), [getKnobImageAlignY](#), [getLabelCursor](#), [getLabelFoldOnPress](#), [getNoExpandedFolderGridLine](#), [getRowFolderImage](#), [getRowImageAlignX](#), [getRowImageAlignY](#), [getRowLeafImage](#), [getTextAntiAlias](#), [interactionOccured](#), [isFolderOverlapChildren](#), [removeInteractionListener](#), [setCellBorder](#), [setCellCursor](#), [setDateAreaContainer](#), [setFolderOverlapChildren](#), [setForcedHeaderSize](#), [setHeaderLevels](#), [setKnobCursor](#), [setKnobExpandedImage](#), [setKnobFoldedImage](#), [setKnobFoldOnPress](#), [setKnobImageAlignX](#), [setKnobImageAlignY](#), [setLabelCursor](#), [setLabelFoldOnPress](#), [setNoExpandedFolderGridLine](#), [setRowFolderImage](#), [setRowImageAlignX](#), [setRowImageAlignY](#), [setRowLeafImage](#), [setTextAntiAlias](#)

### Methods inherited from class [com.miginfocom.beans.AbstractHeaderBean](#)

[getBackgroundPaint](#), [getContainer](#), [getEdge](#), [getExpandToCorner](#), [isVisible](#), [revalidateRepaintContainer](#), [setBackgroundPaint](#), [setDateAreaContainer](#), [setEdge](#), [setExpandToCorner](#), [setVisible](#)

### Methods inherited from class [com.miginfocom.beans.AbstractBean](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [firePropertyChangeEvent](#), [removePropertyChangeListener](#), [setIgnorePropertyChangeEvents](#)

### Methods inherited from class [java.lang.Object](#)

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

---

## Constructors

### **NorthCategoryHeaderBean**

```
public NorthCategoryHeaderBean()
```

## com.miginfocom.beans Class PaintPanelBean

```
java.lang.Object
  |
  +-BackgroundPanel
    |
    +-com.miginfocom.beans.PaintPanelBean
```

```
public class PaintPanelBean
extends BackgroundPanel
```

A normal `javax.swing.JPanel` that can take a generic `java.awt.Paint` object and use that as the background.

### Constructor Summary

public	<a href="#">PaintPanelBean()</a>
--------	----------------------------------

### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

### Constructors

#### **PaintPanelBean**

```
public PaintPanelBean()
```

## com.miginfocom.beans Class PrintPreviewBean

```

java.lang.Object
  |-- java.awt.Component
      |-- java.awt.Container
          |-- javax.swing.JComponent
              |-- javax.swing.JPanel
                  |-- com.miginfocom.beans.PrintPreviewBean
  
```

### All Implemented Interfaces:

Serializable, java.awt.MenuContainer, java.awt.image.ImageObserver, javax.swing.TransferHandler.HasGetTransferHandler, Serializable, javax.accessibility.Accessible

```

public final class PrintPreviewBean
extends javax.swing.JPanel
  
```

#### Fields inherited from class javax.swing.JComponent

TOOL\_TIP\_TEXT\_KEY, UNDEFINED\_CONDITION, WHEN\_ANCESTOR\_OF\_FOCUSED\_COMPONENT, WHEN\_FOCUSED, WHEN\_IN\_FOCUSED\_WINDOW

#### Fields inherited from class java.awt.Component

BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT

#### Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

## Constructor Summary

public	<a href="#">PrintPreviewBean()</a>
--------	------------------------------------

## Method Summary

void	<a href="#">doLayout()</a>
DateAreaContainer	<a href="#">getDateAreaContainer()</a> Property: The com.miginfocom.calendar.datearea.DateAreaContainer that is to be previewed.
boolean	<a href="#">getFlowPages()</a> Property: If set to true the pages will flow like java.awt.FlowLayout and while maintaining the same aspect ratio flow the pages from left to right and then top to bottom.
float	<a href="#">getLayoutAlignmentX()</a> Property: How to align the preview panels as a group if there are free space to distribute.

float	<a href="#">getLayoutAlignmentY()</a> Property: How to align the preview panels as a group if there are free space to distribute.
java.awt.Dimension	<a href="#">getMaximumSize()</a>
java.awt.Dimension	<a href="#">getMinimumSize()</a>
java.awt.print.PageFormat	<a href="#">getPageFormat()</a> Property: The java.awt.print.PageFormat that will be used in the print preview.
int	<a href="#">getPageGapX()</a> Property: The number of horizontal pixels between two adjacent pages.
int	<a href="#">getPageGapY()</a> Property: The number of vertical pixels between two adjacent pages.
java.awt.Dimension	<a href="#">getPreferredSize()</a>
javax.swing.border.Border	<a href="#">getPreviewPanelsBorder()</a> Property: The border that will be set for every preview panel.
PrintSpecification	<a href="#">getPrintSpecification()</a> Property: The specification that outlines how this date area container should be printed.
double	<a href="#">getScreenDpi()</a> Property: The dots (pixels) per inch that the screen physically have.
double	<a href="#">getZoomMaximum()</a> Property: The maximum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.
double	<a href="#">getZoomMinimum()</a> Property: The minimum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.
double	<a href="#">getZoomPreferred()</a> Property: The preferred size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.
void	<a href="#">invalidate()</a>
void	<a href="#">setDateAreaContainer(DateAreaContainer container)</a> Property: The com.miginfocom.calendar.datearea.DateAreaContainer that is to be previewed.
void	<a href="#">setFlowPages(boolean b)</a> Property: If set to true the pages will flow like java.awt.FlowLayout and while maintaining the same aspect ratio flow the pages from left to right and then top to bottom.
void	<a href="#">setLayout(java.awt.LayoutManager lm)</a>
void	<a href="#">setLayoutAlignmentX(float alignX)</a> Property: How to align the preview panels as a group if there are free space to distribute.
void	<a href="#">setLayoutAlignmentY(float alignY)</a> Property: How to align the preview panels as a group if there are free space to distribute.

void	<a href="#">setPageFormat</a> ( java.awt.print.PageFormat pf) Property: The java.awt.print.PageFormat that will be used in the print preview.
void	<a href="#">setPageGapX</a> (int gap) Property: The number of horizontal pixels between two adjacent pages.
void	<a href="#">setPageGapY</a> (int gap) Property: The number of vertical pixels between two adjacent pages.
void	<a href="#">setPreviewPanelsBorder</a> ( javax.swing.border.Border border) Property: The border that will be set for every preview panel.
void	<a href="#">setPrintSpecification</a> (PrintSpecification printSpec) Property: The specifiacion that outlines how this date area container should be printed.
void	<a href="#">setScreenDpi</a> (double dpi) Property: The dots (pixels) per inch that the screen physically have.
void	<a href="#">setZoomMaximum</a> (double zoom) Property: The maximum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.
void	<a href="#">setZoomMinimum</a> (double zoom) Property: The minimum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.
void	<a href="#">setZoomPreferred</a> (double zoom) Property: The prererred size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%.

**Methods inherited from class** javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

**Methods inherited from class** javax.swing.JComponent

addAncestorListener, addNotify, addVetoableChangeListener, computeVisibleRect, contains, createToolTip, disable, enable, firePropertyChange, firePropertyChange, firePropertyChange, getAccessibleContext, getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY, getAncestorListeners, getAutoscrolls, getBaseline, getBaselineResizeBehavior, getBorder, getBounds, getClientProperty, getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions, getDefaultLocale, getFontMetrics, getGraphics, getHeight, getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets, getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize, getNextFocusableComponent, getPopupLocation, getPreferredSize, getRegisteredKeyStrokes, getRootPane, getSize, getToolTipLocation, getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler, getUIClassID, getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getWidth, getVisibleRect, getX, getY, grabFocus, isDoubleBuffered, isLightweightComponent, isManagingFocus, isOpaque, isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile, isRequestFocusEnabled, isValidRoot, paint, paintImmediately, paintImmediately, print, printAll, putClientProperty, registerKeyboardAction, registerKeyboardAction, removeAncestorListener, removeNotify, removeVetoableChangeListener, repaint, repaint, requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow, resetKeyboardActions, reshape, revalidate, scrollRectToVisible, setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground, setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale, setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont, setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier, setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque, setPreferredSize, setRequestFocusEnabled, setToolTipText, setTransferHandler, setVerifyInputWhenFocusTarget, setVisible, unregisterKeyboardAction, update, updateUI

#### Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addNotify, addPropertyChangeListener, addPropertyChangeListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponents, getComponentZOrder, getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy, getInsets, getLayout, getListeners, getMaximumSize, getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf, isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout, list, list, locate, minimumSize, paint, paintComponents, preferredSize, print, printComponents, remove, remove, removeAll, removeContainerListener, removeNotify, setComponentZOrder, setFocusCycleRoot, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, setLayout, transferFocusBackward, transferFocusDownCycle, update, validate

#### Methods inherited from class java.awt.Component



---

```
getAccessibleContext
```

---

## Constructors

### PrintPreviewBean

```
public PrintPreviewBean()
```

## Methods

### invalidate

```
public void invalidate()
```

---

### setLayout

```
public void setLayout(java.awt.LayoutManager lm)
```

---

### getPreferredSize

```
public java.awt.Dimension getPreferredSize()
```

---

### getMaximumSize

```
public java.awt.Dimension getMaximumSize()
```

---

### getMinimumSize

```
public java.awt.Dimension getMinimumSize()
```

---

### doLayout

```
public void doLayout()
```

---

### getDateAreaContainer

```
public DateAreaContainer getDateAreaContainer()
```

Property: The `com.miginfocom.calendar.datearea.DateAreaContainer` that is to be previewed.

**Returns:**

---

(continued from last page)

The container. May be null.

---

## setDateAreaContainer

```
public void setDateAreaContainer(DateAreaContainer container)
```

Property: The `com.miginfocom.calendar.datearea.DateAreaContainer` that is to be previewed.

### Parameters:

`container` - The container. May be null to reset. Will be saved in a weak reference so there are no memory leaks. This means that the container need to be held in a normal strong reference or the preview bean will not work.

---

## getPrintSpecification

```
public PrintSpecification getPrintSpecification()
```

Property: The specification that outlines how this date area container should be printed.

### Returns:

The current specification. Not null.

### Since:

6.0

---

## setPrintSpecification

```
public void setPrintSpecification(PrintSpecification printSpec)
```

Property: The specification that outlines how this date area container should be printed.

### Parameters:

`printSpec` - The new specification. If null a specification will be retrieved from the `com.miginfocom.calendar.datearea.DateAreaContainer`.

### Since:

6.0

---

## getZoomMinimum

```
public double getZoomMinimum()
```

Property: The minimum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inches wide.

### Returns:

The current zoom level.

---

## setZoomMinimum

```
public void setZoomMinimum(double zoom)
```

Property: The minimum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inches wide.

---

(continued from last page)

**Parameters:**

zoom - The new zoom level.

---

**getZoomPreferred**

```
public double getZoomPreferred()
```

Property: The prererred size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inces wide.

**Returns:**

The current zoom level.

---

**setZoomPreferred**

```
public void setZoomPreferred(double zoom)
```

Property: The prererred size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inces wide.

**Parameters:**

zoom - The new zoom level.

---

**getZoomMaximum**

```
public double getZoomMaximum()
```

Property: The maximum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inces wide.

**Returns:**

The current zoom level.

---

**setZoomMaximum**

```
public void setZoomMaximum(double zoom)
```

Property: The maximum size of and individual page expressed in percent. 1.0 is 100% and 0.0 is 0%. Values above 100% (1.0) is allowed.

100% means the size that the page will get on screen is equal to the size of the paper, so for instance if you measure the width on the screen with a ruler a paper with the "Letter" size would be 8.5 inces wide.

**Parameters:**

zoom - The new zoom level.

---

**getScreenDpi**

```
public double getScreenDpi()
```

---

(continued from last page)

Property: The dots (pixels) per inch that the screen physically have. This value is used to calculate how long a certain distance (e.g. one inch) is on the screen. Since a few screens have higher DPI than 72 and Java has no standard way to get this value you can set it here so that a page that is a certain width will get that width on the screen as well (when the zoom is 100%).

**Returns:**

The current value. 96 is default.

---

## setScreenDpi

```
public void setScreenDpi(double dpi)
```

Property: The dots (pixels) per inch that the screen physically have. This value is used to calculate how long a certain distance (e.g. one inch) is on the screen. Since a few screens have higher DPI than 72 and Java has no standard way to get this value you can set it here so that a page that is a certain width will get that width on the screen as well (when the zoom is 100%).

**Parameters:**

dpi - The new value. 96 is default.

---

## getFlowPages

```
public boolean getFlowPages()
```

Property: If set to true the pages will flow like `java.awt.FlowLayout` and while maintaining the same aspect ratio flow the pages from left to right and then top to bottom.

If false the layout manager will arrange the pages in the way that they look, so that the painted picture will be correct. This will mean in a x by y grid.

**Returns:**

The current value.

---

## setFlowPages

```
public void setFlowPages(boolean b)
```

Property: If set to true the pages will flow like `java.awt.FlowLayout` and while maintaining the same aspect ratio flow the pages from left to right and then top to bottom.

If false the layout manager will arrange the pages in the way that they look, so that the painted picture will be correct. This will mean in a x by y grid.

**Parameters:**

b - the new value.

---

## setLayoutAlignmentX

```
public void setLayoutAlignmentX(float alignX)
```

Property: How to align the preview panels as a group if there are free space to distribute.

**Parameters:**

alignX - The new alignment. 0.0 to 1.0.

---

## getLayoutAlignmentX

```
public float getLayoutAlignmentX()
```

Property: How to align the preview panels as a group if there are free space to distribute.

---

(continued from last page)

**Returns:**

The alignment. 0.0 to 1.0.

---

**setLayoutAlignmentY**

```
public void setLayoutAlignmentY(float alignY)
```

Property: How to align the preview panels as a group if there are free space to distribute.

**Parameters:**

alignY - The new alignment. 0.0 to 1.0.

---

**getLayoutAlignmentY**

```
public float getLayoutAlignmentY()
```

Property: How to align the preview panels as a group if there are free space to distribute.

**Returns:**

The alignment. 0.0 to 1.0.

---

**getPreviewPanelsBorder**

```
public javax.swing.border.Border getPreviewPanelsBorder()
```

Property: The border that will be set for every preview panel.

**Returns:**

The current border. May be null.

---

**setPreviewPanelsBorder**

```
public void setPreviewPanelsBorder(javax.swing.border.Border border)
```

Property: The border that will be set for every preview panel.

**Parameters:**

border - The new border. May be null.

---

**getPageFormat**

```
public java.awt.print.PageFormat getPageFormat()
```

Property: The java.awt.print.PageFormat that will be used in the print preview.

**Returns:**

The current value. Never null.

---

**setPageFormat**

```
public void setPageFormat(java.awt.print.PageFormat pf)
```

Property: The java.awt.print.PageFormat that will be used in the print preview.

**Parameters:**

pf - The new value. Never null.

---

---

(continued from last page)

## getPageGapY

```
public int getPageGapY()
```

Property: The number of vertical pixels between two adjacent pages.

**Returns:**

The current gap.

---

## setPageGapY

```
public void setPageGapY(int gap)
```

Property: The number of vertical pixels between two adjacent pages.

**Parameters:**

gap - The new gap.

---

## getPageGapX

```
public int getPageGapX()
```

Property: The number of horizontal pixels between two adjacent pages.

**Returns:**

The current gap.

---

## setPageGapX

```
public void setPageGapX(int gap)
```

Property: The number of horizontal pixels between two adjacent pages.

**Parameters:**

gap - The new gap.

---

## com.miginfoom.beans Class PrintSpecificationBean

```
java.lang.Object
  |
  +-PrintSpecification
     |
     +-com.miginfoom.beans.PrintSpecificationBean
```

```
public class PrintSpecificationBean
extends PrintSpecification
```

This is a visual JavaBean version of `com.miginfoom.util.print.PrintSpecification`.

### Constructor Summary

public	<a href="#">PrintSpecificationBean()</a>
--------	--

### Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

### Constructors

#### **PrintSpecificationBean**

```
public PrintSpecificationBean()
```

## com.miginfocom.beans Class WestCategoryHeaderBean

```

java.lang.Object
  |
  +- com.miginfocom.beans.AbstractBean
      |
      +- com.miginfocom.beans.AbstractHeaderBean
          |
          +- com.miginfocom.beans.CategoryHeaderBean
              |
              +- com.miginfocom.beans.WestCategoryHeaderBean
  
```

### All Implemented Interfaces:

Serializable

```

public class WestCategoryHeaderBean
extends CategoryHeaderBean
  
```

Exactly same as a [CategoryHeaderBean](#) but with a different set of default optimized to get started with a west (left) header faster.

CategoryHeaderBean can be configured to work as both top or left headers, but the properties to get it to look good for either is quite different.

## Constructor Summary

public	<a href="#">WestCategoryHeaderBean()</a>
--------	--

### Methods inherited from class [com.miginfocom.beans.CategoryHeaderBean](#)

[addInteractionListener](#), [addInteractionListener](#), [getCategoryDepth](#), [getCellBorder](#), [getCellCursor](#), [getForcedHeaderSize](#), [getHeader](#), [getHeaderLevels](#), [getKnobCursor](#), [getKnobExpandedImage](#), [getKnobFoldedImage](#), [getKnobFoldOnPress](#), [getKnobImageAlignX](#), [getKnobImageAlignY](#), [getLabelCursor](#), [getLabelFoldOnPress](#), [getNoExpandedFolderGridLine](#), [getRowFolderImage](#), [getRowImageAlignX](#), [getRowImageAlignY](#), [getRowLeafImage](#), [getTextAntiAlias](#), [interactionOccured](#), [isFolderOverlapChildren](#), [removeInteractionListener](#), [setCellBorder](#), [setCellCursor](#), [setDateAreaContainer](#), [setFolderOverlapChildren](#), [setForcedHeaderSize](#), [setHeaderLevels](#), [setKnobCursor](#), [setKnobExpandedImage](#), [setKnobFoldedImage](#), [setKnobFoldOnPress](#), [setKnobImageAlignX](#), [setKnobImageAlignY](#), [setLabelCursor](#), [setLabelFoldOnPress](#), [setNoExpandedFolderGridLine](#), [setRowFolderImage](#), [setRowImageAlignX](#), [setRowImageAlignY](#), [setRowLeafImage](#), [setTextAntiAlias](#)

### Methods inherited from class [com.miginfocom.beans.AbstractHeaderBean](#)

[getBackgroundPaint](#), [getContainer](#), [getEdge](#), [getExpandToCorner](#), [isVisible](#), [revalidateRepaintContainer](#), [setBackgroundPaint](#), [setDateAreaContainer](#), [setEdge](#), [setExpandToCorner](#), [setVisible](#)

### Methods inherited from class [com.miginfocom.beans.AbstractBean](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [firePropertyChangeEvent](#), [removePropertyChangeListener](#), [setIgnorePropertyChangeEvents](#)

### Methods inherited from class [java.lang.Object](#)

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

---

## Constructors

### **WestCategoryHeaderBean**

```
public WestCategoryHeaderBean()
```

# Index

## A

ABSOLUTE\_CELLS 166  
 ActivityAShapeBean 11  
 addActivityDragResizeListener 139  
 addActivityMoveListener 140  
 addDateChangeListener 139, 151  
 addDecorator 84  
 addDecorators 83  
 addInteractionListener 41, 82, 140  
 addMouseInteractionListener 25  
 addNotify 58, 97  
 addSubShape 11

## C

CategoryHeaderBean 30  
 CategoryTreeBean 57  
 CHECK\_CLICKED 56  
 CHECK\_SELECTED\_KEY 56  
 createDemoData 157  
 createLayout 98, 166  
 createSpecification 98

## D

DATE 166  
 DateAreaBean 97  
 DateComboBean 141  
 DateGroupConnectorBean 142  
 DateHeaderBean 145  
 DatePickerBean 152  
 DateSpinnerBean 153  
 DAY\_OF\_WEEK 166  
 DemoDataBean 156  
 doLayout 98, 180

## F

FOLDER\_CHECK\_BACKGROUND\_SHAPE\_NAME 56  
 FOLDER\_CHECK\_IMAGE\_SHAPE\_NAME 56  
 FOLDER\_CHECK\_OUTLINE\_SHAPE\_NAME 56  
 FOLDER\_CONTAINER\_SHAPE\_NAME 57

FOLDER\_LABEL\_SHAPE\_NAME 57

## G

geDataDateRange 160  
 getActivityCategories 158  
 getActivityDepositoryContext 136, 157  
 getActivityLayouts 116  
 getActivityPaintContext 113  
 getAntiAlias 18  
 getAntiAliasHint 66  
 getBackground 24  
 getBackgroundPaint 5, 59, 138  
 getCategories 158  
 getCategoryAtLocation 58  
 getCategoryAutoRevalidate 59, 100  
 getCategoryDepth 30  
 getCategoryHeader 117  
 getCategoryRoot 99  
 getCategoryRootIDs 100  
 getCategoryShowRoot 101  
 getCategoryViewFilter 59  
 getCellBorder 38  
 getCellCursor 32  
 getCheckedState 81  
 getCheckSelectedKey 60  
 getCompressRowsFormat 168  
 getCompressRowsRanges 167  
 getContainer 4  
 getCornerRadius 24  
 getDateAreaContainer 180  
 getDateAreaInnerBorder 138  
 getDateAreaOuterBorder 138  
 getDecorators 83  
 getDefaultDateArea 98  
 getDemoDataBean 61, 107  
 getDescriptionTexts 159  
 getDividerPaint 135  
 getDividerRangeType 135  
 getDraggable 12  
 getEastDateHeader 118  
 getEdge 5  
 getEvenBoundaryPaint 134  
 getEvenRangeType 134  
 getEvenRangeTypeCount 135

---

getExpandToCorner 4  
getFlowPages 183  
getFolderBackground 66  
getFolderCheckBackground 70  
getFolderCheckCursor 67  
getFolderCheckForeground 69  
getFolderCheckHalfSelectedIcon 68  
getFolderCheckIconPlaceRect 64  
getFolderCheckMouseOverBackground 68  
getFolderCheckMouseOverForeground 68  
getFolderCheckPlaceRect 65  
getFolderCheckSelectedIcon 70  
getFolderCheckShape 63  
getFolderCheckWidth 65  
getFolderFont 67  
getFolderForeground 67  
getFolderIconTextGap 66  
getFolderLabelCursor 70  
getFolderMouseOverBackground 71  
getFolderMouseOverFont 71  
getFolderMouseOverForeground 72  
getFolderMouseOverUnderline 72  
getFolderRowHeight 62  
getFolderSelectedBackground 72  
getFolderSelectedFont 73  
getFolderSelectedForeground 73  
getFolderSelectedUnderline 73  
getFolderUnderline 74  
getForcedHeaderSize 35  
getGapMinutesMax 161  
getGapMinutesMin 160  
getGridColor 148  
getGridLineExceptions 145  
getHeader 30, 145  
getHeaderLevels 35  
getHeaderRows 149  
getHorizontalGridLineExceptions 130  
getHorizontalGridLinePaintEven 128  
getHorizontalGridLinePaintOdd 128  
getImage 107  
getImagePlaceRect 108  
getImageTiling 108  
getInnerBorder 149  
getKnobCursor 34  
getKnobExpandedImage 38  
getKnobFoldedImage 38  
getKnobFoldOnPress 33  
getKnobImageAlignX 39  
getKnobImageAlignY 39  
getLabelAlignX 123  
getLabelAlignY 124  
getLabelAntiAlias 119  
getLabelBackground 120  
getLabelBorder 121  
getLabelCellModulo 127  
getLabelCursor 32  
getLabelDateFormat 124  
getLabelFirstDateFormat 126  
getLabelFirstInField 126  
getLabelFoldOnPress 31  
getLabelFont 118  
getLabelForeground 122  
getLabelMinimumCellSize 127  
getLabelNowBackground 120  
getLabelNowBorder 121  
getLabelNowDateFormat 125  
getLabelNowFont 119  
getLabelNowForeground 122  
getLabelNowRangeType 126  
getLabelPlaceRect 123  
getLabelRotation 146  
getLabelRotationRows 146  
getLabelSelectedKey 60  
getLayerForActivities 102  
getLayerForDividers 103  
getLayerForEvenFieldFill 104  
getLayerForGridLines 102  
getLayerForImage 106  
getLayerForLabels 104  
getLayerForOccupied 105  
getLayerForOddFill 106  
getLayerForSelections 103  
getLayoutAlignmentX 183  
getLayoutAlignmentY 184  
getLeafBackground 74  
getLeafCheckBackground 69  
getLeafCheckCursor 75  
getLeafCheckForeground 69  
getLeafCheckHalfSelectedIcon 75  
getLeafCheckIconPlaceRect 64

---

getLeafCheckMouseOverBackground 76  
getLeafCheckMouseOverForeground 76  
getLeafCheckPlaceRect 64  
getLeafCheckSelectedIcon 77  
getLeafCheckShape 63  
getLeafCheckWidth 65  
getLeafFont 74  
getLeafForeground 75  
getLeafIconTextGap 66  
getLeafLabelCursor 77  
getLeafMouseOverBackground 78  
getLeafMouseOverFont 78  
getLeafMouseOverForeground 78  
getLeafMouseOverUnderline 78  
getLeafRowHeight 62  
getLeafSelectedBackground 79  
getLeafSelectedFont 79  
getLeafSelectedForeground 79  
getLeafSelectedUnderline 80  
getLeafUnderline 74  
getLengthMinutesMax 162  
getLengthMinutesMin 161  
getLocale 160  
getMaxActivityCount 162  
getMaximumSize 180  
getMinimumSize 180  
getMouseEffectsEnabled 151  
getMouseOverActivitiesOntop 136  
getMouseOverCursor 13  
getMouseOverSummaryUnderline 12  
getNoExpandedFolderGridLine 31, 128  
getNorthDateHeader 117  
getOccupiedBackgroundPaint 109  
getOccupiedMergeOverlapping 111  
getOccupiedNotBackgroundPaint 110  
getOccupiedNotOutlinePaint 110  
getOccupiedOutlinePaint 109  
getOccupiedPlaceRect 111  
getOccupiedRoundToRangeType 112  
getOddColumnPaint 133  
getOddRowPaint 133  
getOuterBorder 149  
getOutlinePaint 20  
getOutlineStrokeWidth 24  
getPageFormat 184  
getPageGapX 185  
getPageGapY 184  
getPaintContext 13  
getPlaceRect 20  
getPreferredSize 58, 180  
getPreviewPanelsBorder 184  
getPrimaryDimension 12, 115  
getPrimaryDimensionCellType 115  
getPrimaryDimensionCellTypeCount 115  
getPrimaryDimensionLayout 113  
getPrintSpecification 181  
getResizeHandles 11  
getRootCategoryId 80  
getRoundToMinutes 161  
getRowFolderImage 34  
getRowGap 148  
getRowImageAlignX 40  
getRowImageAlignY 40  
getRowLeafImage 35  
getRowSizeCompressed 169  
getRowSizeNormal 168  
getScreenDpi 182  
getScrollPane 58  
getSecondaryDimensionLayout 114  
getSelectablePaint 132  
getSelectedActivitiesOntop 136  
getSelectionBoundaryType 133  
getSelectionMouseOverPaint 131  
getSelectionMousePressedPaint 132  
getSelectionPaint 132  
getSelectionType 137  
getShadowBlurRadius 15  
getShadowCornerRadius 16  
getShadowPaint 15  
getShadowPaintOptimization 14  
getShadowPlaceRect 16  
getShadowSliceSize 15  
getShowsRootHandles 63  
getSnapToMillis 116  
getSouthDateHeader 118  
getSubRowCreator 101  
getSubRowGridLinePaint 129  
getSubRowSizeExpandedFolder 170  
getSubRowSizeFoldedFolder 171  
getSubRowSizeLeaf 169

---

getSummaryTexts 159  
getTextAlignX 21  
getTextAlignY 21  
getTextAntiAlias 19, 41, 147  
getTextAntiAliasRows 147  
getTextFont 23  
getTextForeground 20  
getTextPlaceRect 21  
getTextTemplate 18  
getTimeZone 159  
getTitleAlignX 22  
getTitleAlignY 23  
getTitleFont 23  
getTitleForeground 19  
getTitlePlaceRect 22  
getTitleTemplate 17  
getTree 58  
getVerticalGridLineExceptions 130  
getVerticalGridLinePaintEven 129  
getVerticalGridLinePaintOdd 129  
getVisibleDateRangeString 99  
getWestDateHeader 117  
getWrapBoundary 114  
getWrapBoundaryCount 114  
getZoomMaximum 182  
getZoomMinimum 181  
getZoomPreferred 182  
GridDimensionLayoutBean 166

## I

interactionOccured 30, 82  
invalidate 180  
isDemoDataCreated 157  
isDesignTimeHelp 98  
isEnabled 156  
isExpandRowsToFit 167  
isExpandSubRowsToFit 167  
isFolderCheckSelectable 70  
isFolderCheckVisible 62  
isFolderLabelSelectable 71  
isFolderOverlapChildren 37  
isFolderRouteLabelClickToCheck 61  
isIgnoreInteractionEvents 82  
isLeafCheckSelectable 76

isLeafCheckVisible 61  
isLeafLabelSelectable 77  
isLeafRouteLabelClickToCheck 61  
isOnlyDesignTime 162  
isRootVisible 80  
isShowNoFitIcon 137  
isVisible 6

## L

LABEL\_CLICKED 56  
LABEL\_SELECTED\_KEY 56  
LEAF\_CHECK\_BACKGROUND\_SHAPE\_NAME 57  
LEAF\_CHECK\_IMAGE\_SHAPE\_NAME 57  
LEAF\_CHECK\_OUTLINE\_SHAPE\_NAME 57  
LEAF\_CONTAINER\_SHAPE\_NAME 57  
LEAF\_LABEL\_SHAPE\_NAME 57

## N

NorthCategoryHeaderBean 173

## P

paint 98  
PaintPanelBean 174  
PrintPreviewBean 180  
PrintSpecificationBean 186

## R

removeActivityDragResizeListener 139  
removeActivityMoveListener 140  
removeDateChangeListener 140, 151  
removeDecorator 84  
removeDecorators 84  
removeDemoData 157  
removeInteractionListener 42, 82, 140  
removeMouseListener 25  
removeNotify 58, 98  
removeSubShape 11  
revalidateGrid 98  
revalidateNodes 80  
revalidateRepaintContainer 4  
ROOT\_SHAPE\_NAME 56

## S

- setActivityCategories 158
- setActivityDepositoryContext 136, 157
- setActivityLayouts 116
- setActivityPaintContext 113
- setAntiAlias 19
- setAntiAliasHint 66
- setBackground 24
- setBackgroundPaint 6, 59, 138
- setCategories 158
- setCategoryAutoRevalidate 60, 101
- setCategoryHeader 117
- setCategoryRoot 100
- setCategoryRootIDs 100
- setCategoryShowRoot 101
- setCategoryViewFilter 59
- setCellBorder 38
- setCellCursor 33
- setCheckedState 81
- setCheckSelectedKey 60
- setCompressRowsFormat 168
- setCompressRowsRanges 168
- setCornerRadius 24
- setDataDateRange 160
- setDateAreaContainer 4, 30, 181
- setDateAreaInnerBorder 138
- setDateAreaOuterBorder 139
- setDecorators 83
- setDemoDataBean 61, 107
- setDescriptionTexts 159
- setDesignTimeHelp 99
- setDividerPaint 135
- setDividerRangeType 136
- setDraggable 12
- setEastDateHeader 118
- setEdge 5
- setEnabled 156
- setEvenBoundaryPaint 134
- setEvenRangeType 134
- setEvenRangeTypeCount 135
- setExpandRowsToFit 167
- setExpandSubRowsToFit 167
- setExpandToCorner 5
- setFlowPages 183
- setFolderBackground 67
- setFolderCheckBackground 70
- setFolderCheckCursor 68
- setFolderCheckForeground 69
- setFolderCheckHalfSelectedIcon 68
- setFolderCheckIconPlaceRect 64
- setFolderCheckMouseOverBackground 68
- setFolderCheckMouseOverForeground 68
- setFolderCheckPlaceRect 65
- setFolderCheckSelectable 70
- setFolderCheckSelectedIcon 70
- setFolderCheckShape 64
- setFolderCheckVisible 62
- setFolderCheckWidth 65
- setFolderFont 67
- setFolderForeground 67
- setFolderIconTextGap 66
- setFolderLabelCursor 71
- setFolderLabelSelectable 71
- setFolderMouseOverBackground 71
- setFolderMouseOverFont 72
- setFolderMouseOverForeground 72
- setFolderMouseOverUnderline 72
- setFolderOverlapChildren 38
- setFolderRouteLabelClickToCheck 61
- setFolderRowHeight 63
- setFolderSelectedBackground 72
- setFolderSelectedFont 73
- setFolderSelectedForeground 73
- setFolderSelectedUnderline 73
- setFolderUnderline 74
- setForcedHeaderSize 35
- setGapMinutesMax 161
- setGapMinutesMin 160
- setGridColor 148
- setGridLineExceptions 145
- setHeaderLevels 36
- setHeaderRows 150
- setHorizontalGridLineExceptions 130
- setHorizontalGridLinePaintEven 128
- setHorizontalGridLinePaintOdd 129
- setIgnoreInteractionEvents 83
- setImage 107
- setImagePlaceRect 108

- 
- setImageTiling 108
  - setInnerBorder 149
  - setKnobCursor 34
  - setKnobExpandedImage 38
  - setKnobFoldedImage 39
  - setKnobFoldOnPress 33
  - setKnobImageAlignX 39
  - setKnobImageAlignY 39
  - setLabelAlignX 123
  - setLabelAlignY 124
  - setLabelAntiAlias 119
  - setLabelBackground 120
  - setLabelBorder 121
  - setLabelCellModulo 127
  - setLabelCursor 32
  - setLabelDateFormat 125
  - setLabelFirstDateFormat 126
  - setLabelFirstInField 127
  - setLabelFoldOnPress 31
  - setLabelFont 118
  - setLabelForeground 122
  - setLabelMinimumCellSize 128
  - setLabelNowBackground 120
  - setLabelNowBorder 121
  - setLabelNowDateFormat 125
  - setLabelNowFont 119
  - setLabelNowForeground 122
  - setLabelNowRangeType 126
  - setLabelPlaceRect 123
  - setLabelRotation 146
  - setLabelRotationRows 147
  - setLabelSelectedKey 60
  - setLayerForActivities 102
  - setLayerForDividers 103
  - setLayerForEvenFieldFill 105
  - setLayerForGridLines 102
  - setLayerForImage 106
  - setLayerForLabels 104
  - setLayerForOccupied 105
  - setLayerForOddFill 106
  - setLayerForSelections 104
  - setLayout 180
  - setLayoutAlignmentX 183
  - setLayoutAlignmentY 184
  - setLeafBackground 74
  - setLeafCheckBackground 69
  - setLeafCheckCursor 75
  - setLeafCheckForeground 69
  - setLeafCheckHalfSelectedIcon 76
  - setLeafCheckIconPlaceRect 64
  - setLeafCheckMouseOverBackground 76
  - setLeafCheckMouseOverForeground 76
  - setLeafCheckPlaceRect 64
  - setLeafCheckSelectable 76
  - setLeafCheckSelectedIcon 77
  - setLeafCheckShape 63
  - setLeafCheckVisible 62
  - setLeafCheckWidth 65
  - setLeafFont 75
  - setLeafForeground 75
  - setLeafIconTextGap 66
  - setLeafLabelCursor 77
  - setLeafLabelSelectable 77
  - setLeafMouseOverBackground 78
  - setLeafMouseOverFont 78
  - setLeafMouseOverForeground 78
  - setLeafMouseOverUnderline 79
  - setLeafRouteLabelClickToCheck 61
  - setLeafRowHeight 62
  - setLeafSelectedBackground 79
  - setLeafSelectedFont 79
  - setLeafSelectedForeground 80
  - setLeafSelectedUnderline 80
  - setLeafUnderline 74
  - setLengthMinutesMax 162
  - setLengthMinutesMin 162
  - setLocale 160
  - setMaxActivityCount 162
  - setMouseEffectsEnabled 151
  - setMouseOverActivitiesOntop 136
  - setMouseOverCursor 13
  - setMouseOverSummaryUnderline 13
  - setNoExpandedFolderGridLine 31, 128
  - setNorthDateHeader 117
  - setOccupiedBackgroundPaint 109
  - setOccupiedMergeOverlapping 112
  - setOccupiedNotBackgroundPaint 110
  - setOccupiedNotOutlinePaint 110
  - setOccupiedOutlinePaint 109
  - setOccupiedPlaceRect 111

---

setOccupiedRoundToRangeType 112  
setOddColumnPaint 134  
setOddRowPaint 133  
setOnlyDesignTime 163  
setOuterBorder 149  
setOutlinePaint 20  
setOutlineStrokeWidth 24  
setPageFormat 184  
setPageGapX 185  
setPageGapY 185  
setPaintContext 13  
setPlaceRect 20  
setPreferredSize 58  
setPreviewPanelsBorder 184  
setPrimaryDimension 12, 116  
setPrimaryDimensionCellType 115  
setPrimaryDimensionCellTypeCount 115  
setPrimaryDimensionLayout 113  
setPrintSpecification 181  
setResizeHandles 12  
setRootCategoryId 81  
setRootVisible 80  
setRoundToMinutes 161  
setRowFolderImage 34  
setRowGap 148  
setRowImageAlignX 40  
setRowImageAlignY 41  
setRowLeafImage 35  
setRowSizeCompressed 169  
setRowSizeNormal 169  
setScreenDpi 183  
setSecondaryDimensionLayout 114  
setSelectablePaint 133  
setSelectedActivitiesOntop 136  
setSelectionBoundaryType 133  
setSelectionMouseOverPaint 131  
setSelectionMousePressedPaint 132  
setSelectionPaint 132  
setSelectionType 137  
setShadowBlurRadius 15  
setShadowCornerRadius 16  
setShadowPaint 15  
setShadowPaintOptimization 14  
setShadowPlaceRect 16  
setShadowSliceSize 15  
setShowNoFitIcon 137  
setShowsRootHandles 63  
setSnapToMillis 116  
setSouthDateHeader 118  
setSubRowCreator 101  
setSubRowGridLinePaint 130  
setSubRowSizeExpandedFolder 170  
setSubRowSizeFoldedFolder 171  
setSubRowSizeLeaf 170  
setSummaryTexts 159  
setTextAlignX 21  
setTextAlignY 22  
setTextAntiAlias 19, 41, 147  
setTextAntiAliasRows 148  
setTextFont 23  
setTextForeground 20  
setTextPlaceRect 21  
setTextTemplate 18  
setTimeZone 159  
setTitleAlignX 22  
setTitleAlignY 23  
setTitleFont 23  
setTitleForeground 19  
setTitlePlaceRect 22  
setTitleTemplate 17  
setVerticalGridLineExceptions 131  
setVerticalGridLinePaintEven 129  
setVerticalGridLinePaintOdd 129  
setVisible 6  
setVisibleDateRangeString 99  
setWestDateHeader 117  
setWrapBoundary 114  
setWrapBoundaryCount 115  
setZoomMaximum 182  
setZoomMinimum 181  
setZoomPreferred 182  
sortDecorators 83

**T**

TIME\_OF\_DAY 166  
toggleCheckedState 81

**V**

---

validateHeaders 118

## W

WestCategoryHeaderBean 188