GUI Ex Sliders

CPSC 1181 - 0.0.

Jeremy Hilliker Summer 2017



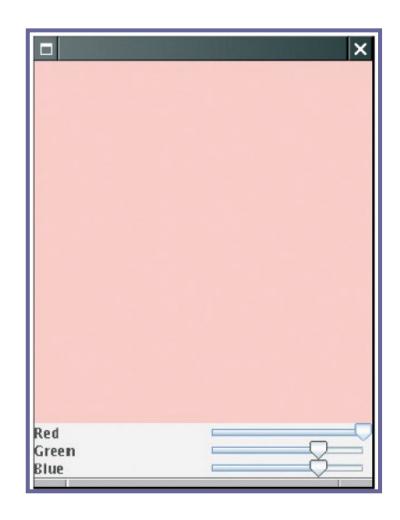
Overview

Example with sliders

Example

 We're going to make a colour mixer.

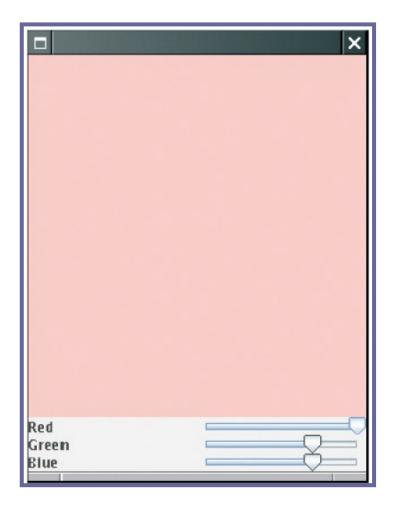
- A top part
- Bottom part
- Looks like a Border Layout
 - Top part is "centre"



Bottom Part

- Looks like a grid
 - Maybe not the best choice, but we'll go with it
- 3 labels beside 3 sliders

Google: Java 8 slider





java 8 slider



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ΑII

Videos

Images

Shopping

News

More

Settings

Tools

About 719,000 results (0.34 seconds)

Slider (JavaFX 8) - Oracle Help Center

https://docs.oracle.com/javase/8/javafx/api/javafx/scene/control/Slider.html ▼
The three fundamental variables of the slider are min , max , and value . The value should
Methods inherited from class java.lang.Object · clone, equals ...

JSlider (Java Platform SE 8) - Oracle Help Center

https://docs.oracle.com/javase/8/docs/api/javax/swing/JSlider.html ▼
A component that lets the user graphically select a value by sliding a knob within a bounded interval.
The knob is always positioned at the points that match ...

Using JavaFX UI Controls: Slider | JavaFX 2 Tutorials and ...

docs.oracle.com > JavaFX Documentation Home > Using JavaFX UI Controls
She lives in St. Petersburg, Russia, and develops tutorials and technical articles for Java and JavaFX
technologies. ... It can also include tick marks and tick labels that indicate numeric values of the range.
... You can assign the setSnapToTicks method to true to keep the slider's value ...

How to Use Sliders (The Java™ Tutorials > Creating a GUI With JFC ...

docs.oracle.com > ... > Creating a GUI With JFC/Swing > Using Swing Components ▼ Click the Launch button to run SliderDemo using Java™ Web Start (download JDK 7 or later). Alternatively, to compile and run the example yourself, consult the ...

What

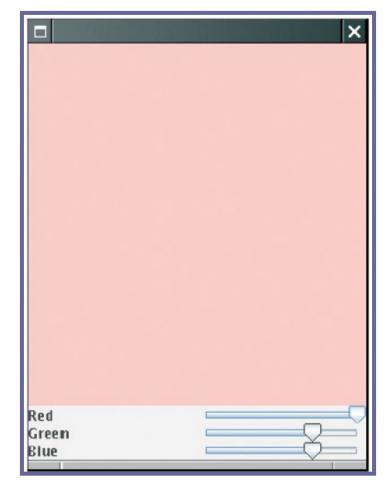
- Looking for:
 - How to create
 - How to listen to events
 - How to get values
- Try the tutorial first
 - Then check the Javadoc if you need more

From tutorial:

```
JSlider framesPerSecond = new
JSlider (JSlider . HORIZONTAL, FPS MIN,
FPS MAX, FPS INIT);
framesPerSecond.addChangeListener(this);
//Turn on labels at major tick marks.
framesPerSecond.setMajorTickSpacing(10);
framesPerSecond.setMinorTickSpacing(1);
framesPerSecond.setPaintTicks(true);
framesPerSecond.setPaintLabels(true);
```

From tutorial

```
public void stateChanged(ChangeEvent e) {
    JSlider source = (JSlider)e.getSource();
    if (!source.getValueIsAdjusting()) {
        int fps = (int)source.getValue();
        if (fps == 0) {
            if (!frozen) stopAnimation();
        } else {
            delay = 1000 / fps;
            timer.setDelay(delay);
            timer.setInitialDelay(delay * 10);
            if (frozen) startAnimation();
```



Skill

- Learn how to efficiently read documentation
 - ~50 methods
 - ~250 inherited
- Learn to skim
- Learn to filter things that aren't relevant
 - If you don't understand it, its probably not what you want; move on
- Look for keywords
- Search for what you want

Constructors

Constructor and Description

JSlider()

Creates a horizontal slider with the range 0 to 100 and an initial value of 50.

JSlider(BoundedRangeModel brm)

Creates a horizontal slider using the specified BoundedRangeModel.

JSlider(int orientation)

Creates a slider using the specified orientation with the range 0 to 100 and an initial value of 50.

JSlider(int min, int max)

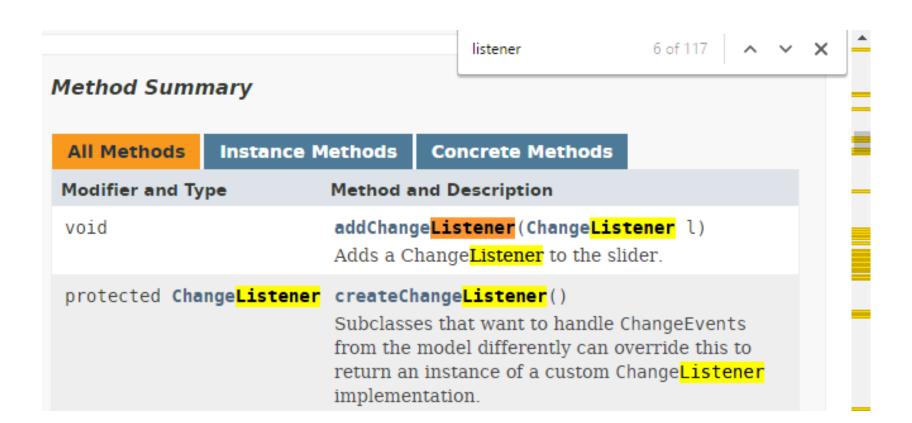
Creates a horizontal slider using the specified min and max with an initial value equal to the average of the min plus max.

JSlider(int min, int max, int value)

Creates a horizontal slider using the specified min, max and value.

JSlider(int orientation, int min, int max, int value)

Creates a slider with the specified orientation and the specified minimum, maximum, and initial values.



3 CT TING	Returns the n getV 1 of 12 ^ > this component.	×	^
int	<pre>getValue() Returns the slider's current value from the BoundedRangeModel.</pre>		
boolean	<pre>getValueIsAdjusting() Returns the valueIsAdjusting property from the model.</pre>		Ē

Algorithm

- Make the thing
 - Layout, etc
 - Attach listener(s)
 - On event, get values of sliders
 - Re-compute
 - Repaint

