JavaFX workshop

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You need the following

- NetBeans 8.1

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- JavaFX Scene Builder 2.0

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- NetBeans 8.1
- JavaFX Scene Builder 2.0
- JDK 1.8

Integrate Scene Builder 2.0 into NetBeans

Windows

Tools/Options/Java/JavaFX/

Mac OS X

NetBeans/Preferences/Java/JavaFX/

Linux

NetBeans/Tools/Options/Java/JavaFX/

Create the Project

Create a new project in NetBeans.

Project informations

Projecttyp: Java FX FXML Application
Name: JavaFXClock
FXML name: Clock

Package structure

javafxclock/controller
javafxclock/model
javafxclock/style
javafxclock/util
javafxclock/view

The backend has these classes

- Time
- TimeUnit
- ClockController

TimeUnit

```
private int max;
IntegerProperty value = new SimpleIntegerProperty(0);
public void increment(); public void decrement();
```

Time

Connects the TimeUnits

- private TimeUnit hour, minute, second;
- ChangeListener for each property in TimeUnit
- void sync();
- void tick();
- void increment();
- void decrement();

ClockController

Tells the View (FXML) what to display

Create the view

1. Label: for time — timeLabel
2. HBox

Create the view

1. Label: for time — timeLabel
2. HBox
3. Button: Start/Stop — startStopToggleButton

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3. Button: Start/Stop — startStopToggleButton
4. Button: Alarm — alarmToggleButton

Create the view

1. Label: for time — timeLabel
2. HBox
3. Button: Start/Stop — startStopToggleButton
4. Button: Alarm — alarmToggleButton
5. Button: Sync — syncButton

Create the view

1. Label: for time — timeLabel
2. HBox
3. Button: Start/Stop — startStopToggleButton
4. Button: Alarm — alarmToggleButton
5. Button: Sync — syncButton
6. Button: Add Hour — addHourButton

Create the view

1. Label: for time — timeLabel
2. HBox
3. Button: Start/Stop — startStopToggleButton
4. Button: Alarm — alarmToggleButton
5. Button: Sync — syncButton
6. Button: Add Hour — addHourButton
7. Button: Minus Hour — minusHourButton

Create the view

1. Label: for time — timeLabel
2. HBox
3. Button: Start/Stop — startStopToggleButton
4. Button: Alarm — alarmToggleButton
5. Button: Sync — syncButton
6. Button: Add Hour — addHourButton
7. Button: Minus Hour — minusHourButton
8. Button: Add Minute — addMinuteButton

Create the view

1. Label: for time — timeLabel
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3. Button: Start/Stop — startStopToggleButton
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5. Button: Sync — syncButton
6. Button: Add Hour — addHourButton
7. Button: Minus Hour — minusHourButton
8. Button: Add Minute — addMinuteButton
9. Button: Minus Minute — minusMinuteButton

Create the view

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2. HBox
3. Button: Start/Stop — startStopToggleButton
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5. Button: Sync — syncButton
6. Button: Add Hour — addHourButton
7. Button: Minus Hour — minusHourButton
8. Button: Add Minute — addMinuteButton
9. Button: Minus Minute — minusMinuteButton
10. Button: Add Second — addSecondButton

Create the view

1. Label: for time — timeLabel
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7. Button: Minus Hour — minusHourButton
8. Button: Add Minute — addMinuteButton
9. Button: Minus Minute — minusMinuteButton
10. Button: Add Second — addSecondButton
11. Button: Minus Second — minusSecondButton