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Project

JavaFX workshop Create a clock

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Fontys University of Applied Science Venlo

30. November 2015

#### JavaFX

Create a clock

30. November 2015

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View

- NetBeans 8.1
- JavaFX Scene Builder 2.0
- JDK 1.8
- Joda-Time v 2.9

You need the following

JavaFX -Installation └─To download └─You need the following

You need the following NetBeans 8.1

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## You need the following

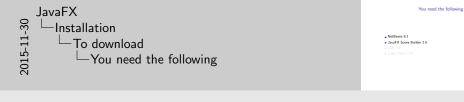
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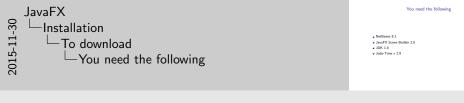
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Backen

Frontend View

# 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/

JavaFX
—Installation
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—Integrate Scene Builder 2.0 into NetBeans



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Create the Project

Create a new project in NetBeans.

## Project informations

Projecttyp: Java FX FXML Application

Name: JavaFXClock FXML name: Clock

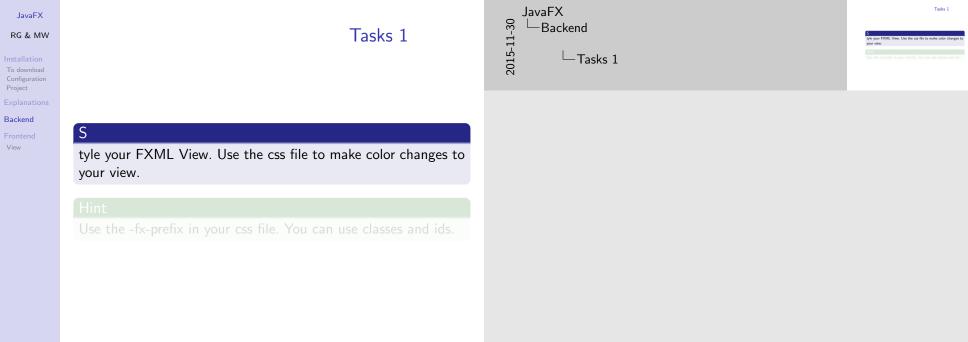
## Package structure

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

JavaFX Installation -Project Create the Project

Create the Project javafxclock/model javafxclock/style javafxclock/util javafxclock/view





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Tasks 1

Tasks 1

JavaFX
— Backend

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Configuration
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Explanations

## Backend

View

tyle your FXML View. Use the css file to make color changes to your view.

## Hint

Use the -fx-prefix in your css file. You can use classes and ids.

JavaFX JavaFX Backend Tasks 2 RG & MW └─Tasks 2 To download Configuration Backend View dd a function that shows how often the button was clicked. Set the label text to that number.

Tasks 2

Tasks 2

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## Backend

View

#### Α

dd a function that shows how often the button was clicked. Set the label text to that number.

## Hint

use the ButtonAction function to alter the text of the label.

Tasks 3

JavaFX ⊸Backend

Task 3
Convert the amount clicke the label text to that Prop
(Hint:
See this (TODO) example.

Tasks 3

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#### Task 3

Convert the amount clicked to a SimpleIntegerPropterty.Bind the label text to that Property.

#### Llint

See this (TODO) example to see an example of propertie

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Tasks 3

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#### Backend

Frontend View

## Task 3

Convert the amount clicked to a SimpleIntegerPropterty.Bind the label text to that Property.

## Hint

See this (TODO) example to see an example of properties

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Tasks 3

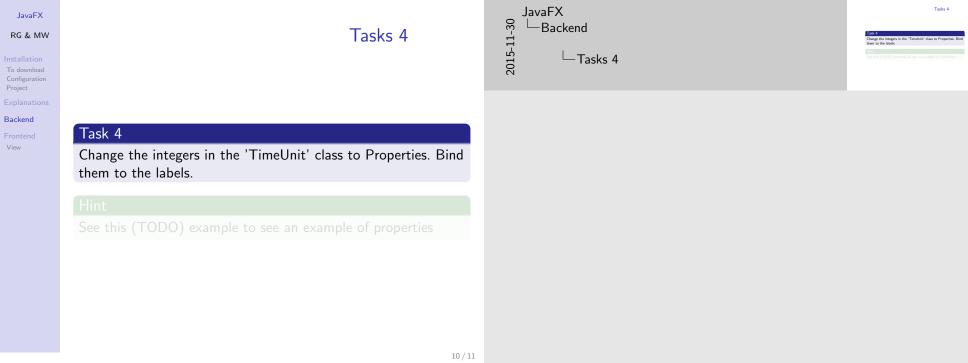
Tasks 3

Tasks 3

Tasks 3

Convert the removed clicked to a Simplifine gent Property Brief the label text to their Property.

Tasks 3



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Tasks 4

## Backend

View

## Task 4

Change the integers in the 'TimeUnit' class to Properties. Bind them to the labels.

## Hint

See this (TODO) example to see an example of properties

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View

## Create the view

■ Label: for time — timeLabel

4 HBox

Button: Minus Hour — minusHourButton

JavaFX -Frontend -View -Create the view

Create the view Label: for time — timeLabel

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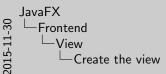
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Frontend View

#### Create the view

- Label: for time timeLabel
- 4 HBox
- 8 Button: Start/Stop startStopToggleButton
- Button: Alarm alarmToggleButtor
- Button: Sync syncButtor
- 6 Button: Add Hour addHourButton
- Button: Minus Hour minusHourButton
- O Dutton Add Minuto add Minuto Dutton
- Button: Minus Minute minusMinuteButtor
- Rutton: Add Second addSecondButton
- Rutton: Minus Second minus Second Rutton



Create the view

Label: for time — timeLabel
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Button: Sync — syncButton

Button: Minus Hour — minusHour
 Button: Add Minute — addMinute

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 Button: Minus Minute — minusMinu
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#### Create the view

- 1 Label: for time timeLabel
- 4 HBox
- Button: Start/Stop startStopToggleButton
- 4 Button: Alarm alarmToggleButton

- Button: Minus Hour minusHourButton



Create the view

Label: for time — timeLabel Button: Start/Stop — startStopToggleButtor Button: Alarm - alarmToggleButton

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View

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Button: Minus Hour — minusHourButton

JavaFX -Frontend -View -Create the view

Create the view

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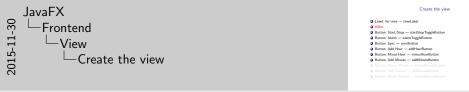
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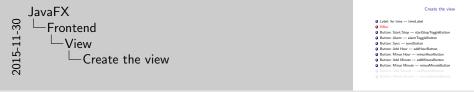
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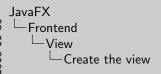
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