

## Inhaltsverzeichnis

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<b>1</b>	<b>Installation</b>	<b>1</b>
1.1	To download . . . . .	1
1.2	Configuration . . . . .	1
1.3	Project . . . . .	1
<b>2</b>	<b>Explanations</b>	<b>1</b>
<b>3</b>	<b>Backend</b>	<b>2</b>
<b>4</b>	<b>Frontend</b>	<b>2</b>
4.1	View . . . . .	2

## 1 Installation

### 1.1 To download

You need the following

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

### 1.2 Configuration

**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/

## 1.3 Project

### Create the Project

Create a new project in NetBeans.

### Project informations

Project type: Java FX FXML Application Name: JavaFXClock FXML name: Clock

### Package structure

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

## 2 Explanations

### explanation

## 3 Backend

### Tasks 1

#### S

style 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.

### Tasks 2

#### A

add 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

#### Task 3

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

#### *Hint*

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

## Tasks 4

### 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

## 4 Frontend

### 4.1 View

#### 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
9. Button: Minus Minute — minusMinuteButton
10. Button: Add Second — addSecondButton
11. Button: Minus Second — minusSecondButton