# JavaFX 简明教程 3

#### INTRODUCTION



https://qiaomenzhuan.com.au



## Outline



#### Issues with UI created using API

#### **FXML**

- Understand FXML
- Create UI

#### Scene Builder

- Installation
- Generate FXML



## FXML

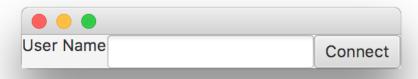


## FXML

An XML based markup language for defining the user interface of a Java FX application



### **API** Version





### **FXML** Version

```
<HBox>
    <children>
        <Label text="User Name" />
        <TextField />
        <Button text="Connect" />
    </children>
</HBox>
HBox box = FXMLLoader.<HBox>load(this.getClass()
                       .getResource("simpleui.fxml"));
```



## Components

#### **FXML Source**

The XML file with declarations for UI

#### **FXMLLoader class**

Utility class for loading an FXML file

#### Controller

A class responsible for behaviors



### Controller

Instantiated by FXML Loader

Contains UI Elements references Maximum one controller per FXML

Event Handlers for UI Elements Can have initialize method

Default constructor must be public



### Benefits

#### Readable

Hierarchical structure of XML closely parallels
Java FX Scene Graph

#### No Recompile

FXML is not a compiled language, just rerun app after changes

#### Localization

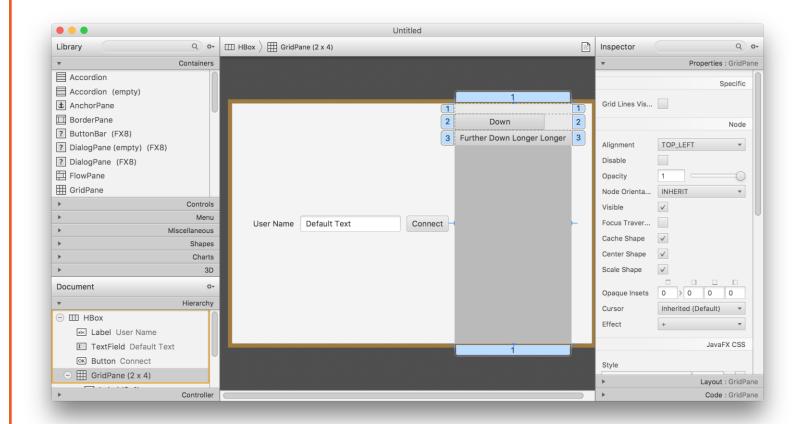
Internationalization is very simple and automatic



## Scene Builder



UI Layout Tool
Drag & Drop UI
FXML Visual Editor
Cross Platform
Integrated with IDEs
CSS Support





## Demo



Get Scene Builder

Configure it with NetBeans IDE

**User Interface Walkthrough** 

Re-build our Do-It Application's UI



## Summary



Understand the issues with API

Learn FXML

**Get to know Scene Builder** 

Do-It UI using Scene Builder

