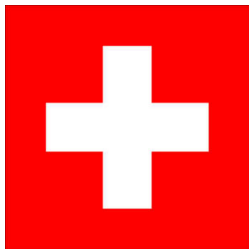


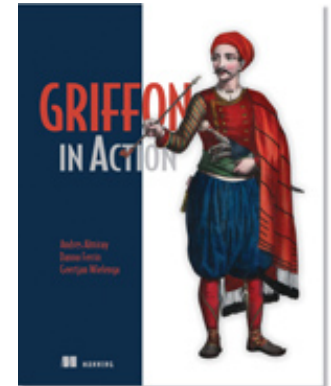
THE JAVAFX ECOSYSTEM

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IX-CHEL RUIZ
@IXCHELRUIZ



canoo





LAYOUT

MigLayout - <http://miglayout.com/>

```
<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.*?>
<?import org.tbee.javafx.scene.layout.fxml.MigPane?>

<MigLayoutPanel xmlns:fx="http://javafx.com/fxml"
    fx:controller="org.example.SampleController"
    layout="fill, wrap 2"
    cols="[label, left, pref!][grow, 50::]">
    <Label text="Username:"/>
    <TextField/>
    <Label text="Password:"/>
    <PasswordField/>
    <Button prefWidth="200.0" text="Login"
        MigLayoutPanel.cc="span 2, right"/>
</MigLayoutPanel>
```

WIDGETS

Medusa - <https://github.com/HanSolo/Medusa>



JideFX - <https://github.com/jidesoft/jidefx-oss>

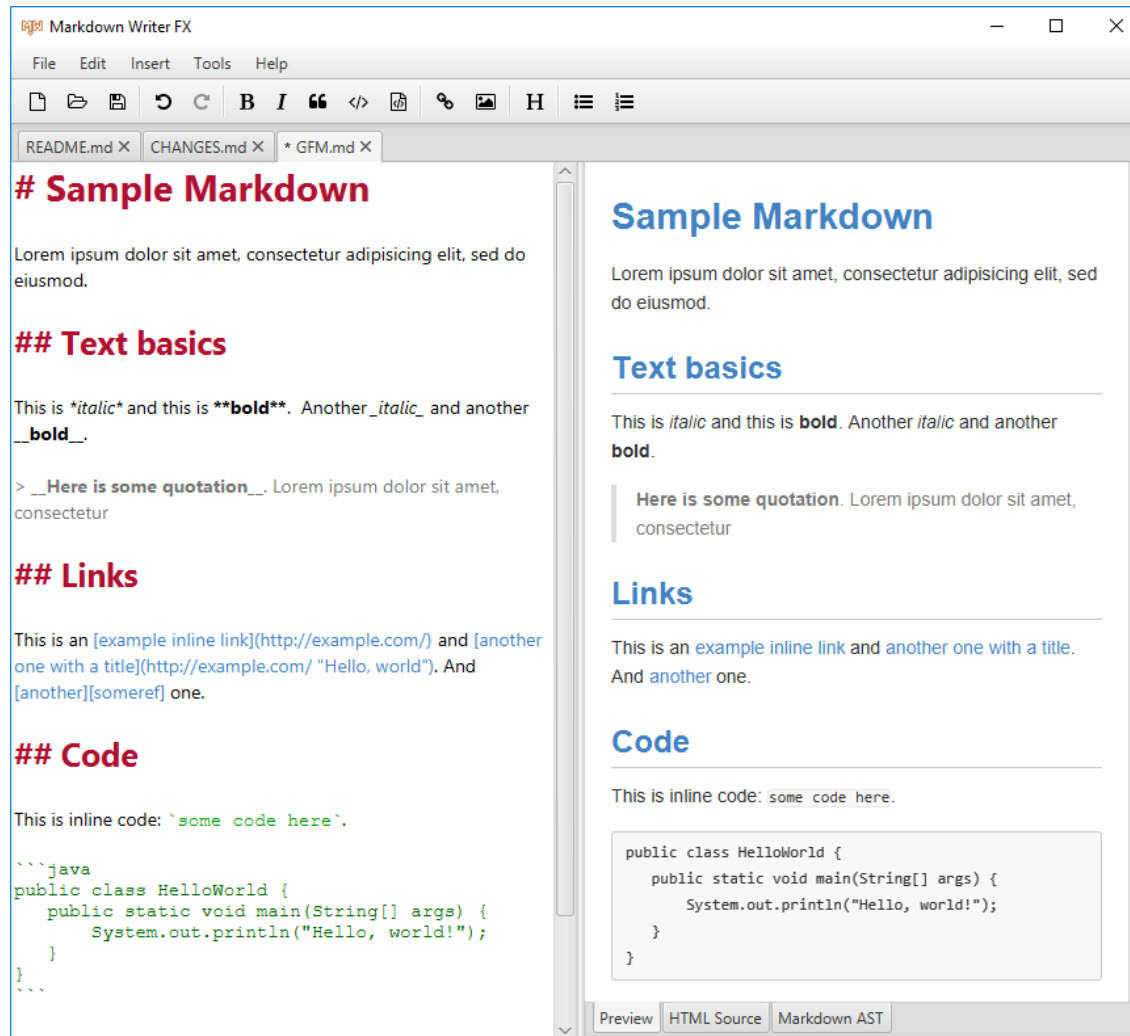
Fields: FormattedTextField, NumericTextField, etc.

Decoration: apply decorators anywhere (like JXLayer).

Validation: custom validators; builds on top of decoration.

Common utilities for animations, tooltips, hints, search, etc.

RichTextFX - <https://github.com/TomasMikula/RichTextFX>



<https://github.com/JFormDesigner/markdown-writer-fx>

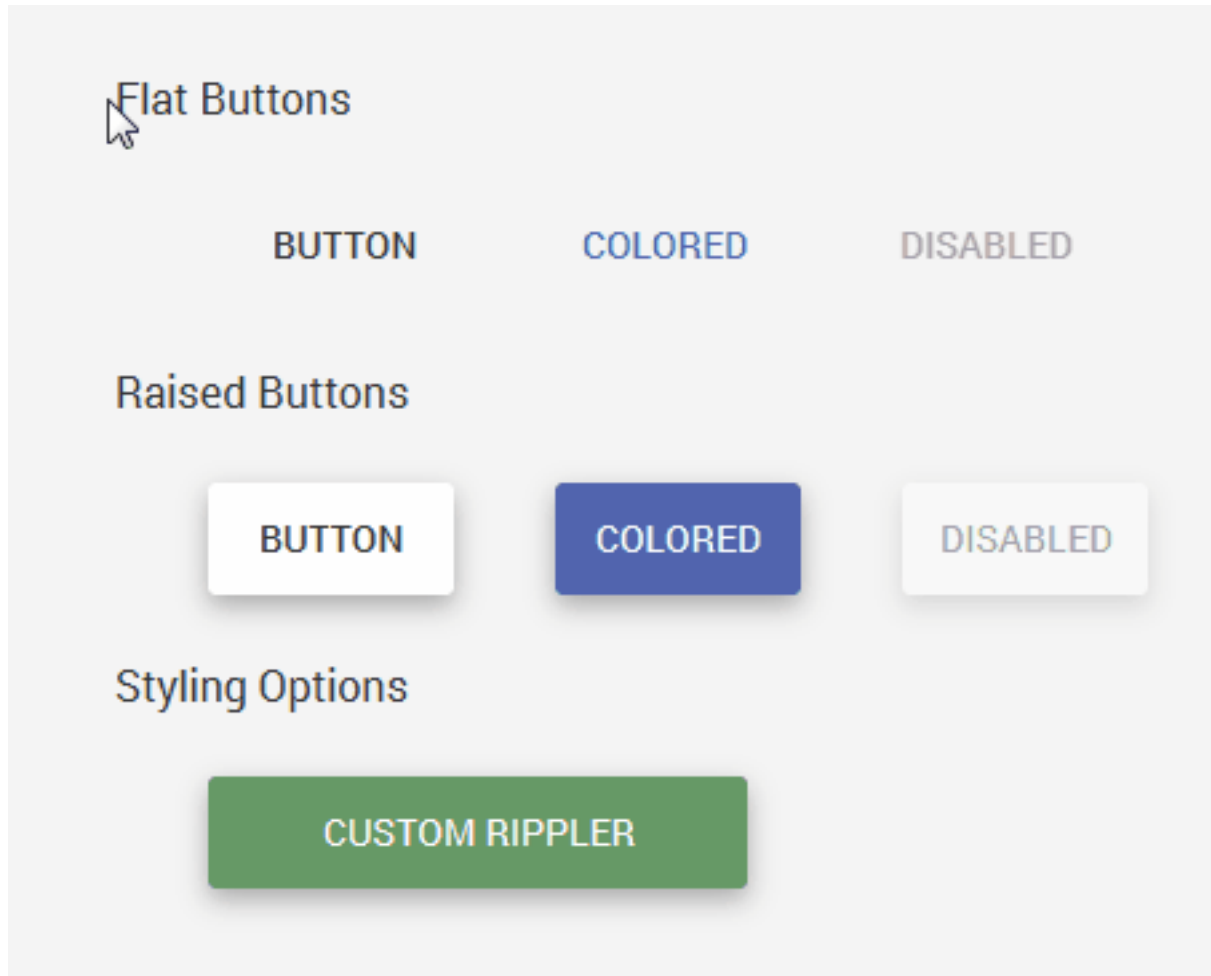
ControlsFX - <http://fxexperience.com/controlsfx/>



CONTROLS FX

LOOKS

JFoenix - <https://github.com/jfoenixadmin/JFoenix/>



BootstrapFX - <https://github.com/aalmiray/bootstrapfx/>

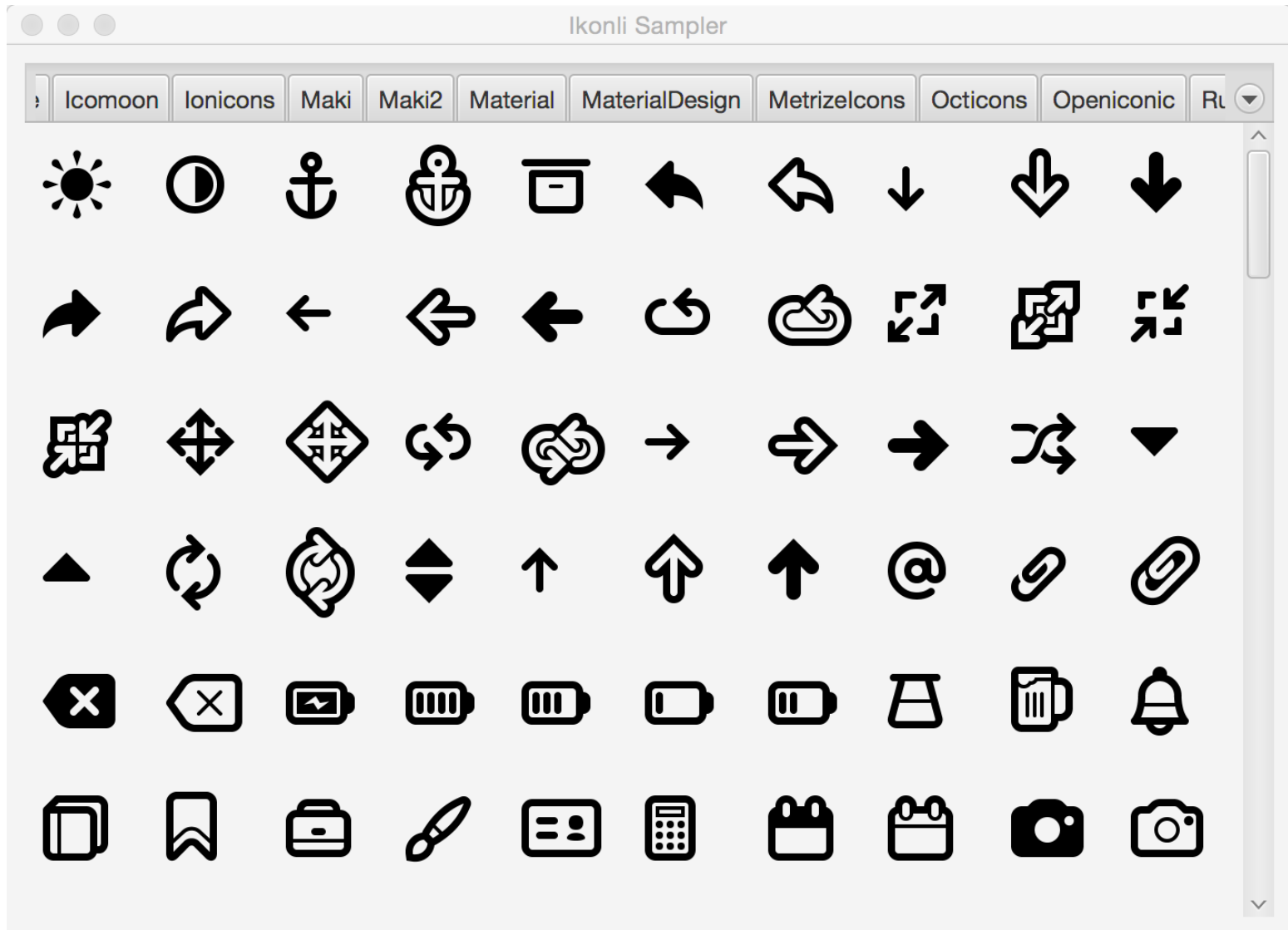
The image shows a screenshot of the 'BootstrapFX Sampler' application. The window title is 'BootstrapFX Sampler'. The application has a top navigation bar with tabs for 'Buttons', 'Labels', 'Alerts', 'Panels', 'Headings', 'Text', 'Paragraph', 'Button Groups', and 'SplitMenuButtons'. The 'Buttons' tab is selected. Below the navigation bar, there is a grid of buttons. The grid has four rows representing different button sizes: 'btn btn-lg', 'btn', 'btn btn-sm', and 'btn btn-xs'. Each row has six columns representing different button styles: 'Default', 'Primary', 'Success', 'Info', 'Warning', and 'Danger'. The 'Default' buttons are white with a light gray border. The 'Primary' buttons are blue. The 'Success' buttons are green. The 'Info' buttons are light blue. The 'Warning' buttons are orange. The 'Danger' buttons are red. At the bottom of the application, there are two tabs: 'Widgets' and 'Source'. The 'Widgets' tab is selected.

Button Size	Default	Primary	Success	Info	Warning	Danger
btn btn-lg	Default	Primary	Success	Info	Warning	Danger
btn	Default	Primary	Success	Info	Warning	Danger
btn btn-sm	Default	Primary	Success	Info	Warning	Danger
btn btn-xs	Default	Primary	Success	Info	Warning	Danger

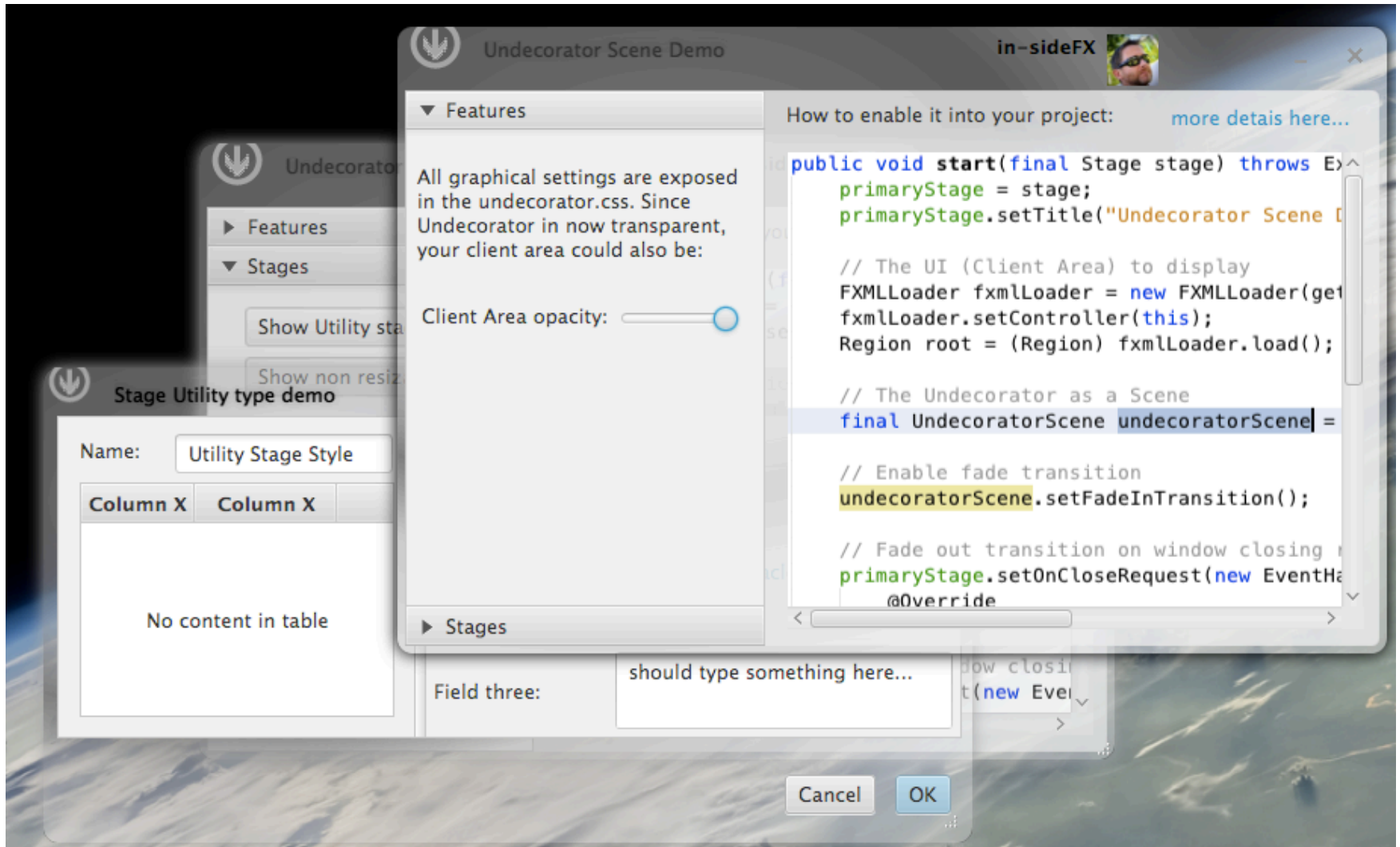
FontawesomeFX - <https://bitbucket.org/Jerady/fontawesomefx/>



Ikonli - <http://aalmiray.github.io/ikonli/>



Undecorator - <https://github.com/in-sideFX/UndecoratorBis>



TESTING

TestFX - <https://github.com/TestFX/TestFX>

```
public class DesktopPaneTest extends ApplicationTest {
    public void start(Stage stage) { /* init */ }

    @Test
    public void should_drag_file_into_trashcan() {
        // given:
        rightClickOn("#desktop").moveTo("New")
            .clickOn("Text Document");
        write("myTextfile.txt").push(ENTER);

        // when:
        drag(".file").dropTo("#trash-can");

        // then:
        verifyThat("#desktop", hasChildren(0, ".file"));
    }
}
```

FRAMEWORKS

Afterburner.fx - <http://afterburner.adam-bien.com/>

- **High productivity with WYSIWYG editor inclusion**
- **No boilerplate code**
- **Highest possible non-intrusion**
- **No external libraries or dependencies**
- **Maven 3 build support**

JacpFX - <http://jacpfx.org/>

- **Spring support**
- **Maven support**
- **Workbench and Perspective concepts borrowed from Eclipse**
- **Messaging**
- **Light-weight event bus**
- **View templates**

JRebirth - <http://www.jrebirth.org/>

- **Simplify Thread Management**
- **Avoid memory leak**
- **Maintain a good SoC**
- **Be the more convenient as possible for developers**
- **Be lightweight (and modularizable)**
- **Follow OSS spirit and Java Best Practices**
- **Maven compatible**
- **MVC**

MvvmFX - <https://github.com/sialcasa/mvvmFX>

Provides necessary components to implement the MVVM pattern with JavaFX.

Maven compatible.

Griffon - <http://griffon-framework.org/>

- **Application life cycle**
- **Configuration**
- **MVC artifacts**
- **Localized resources (and injection)**
- **Loosely coupled actions**
- **Dependency injection**
- **Event system**
- **Centralized error management**
- **Extension points via plugins**
- **Maven and Gradle support**



PLATFORMS

e(fx)clipse - <http://efxclipse.bestsolution.at/>

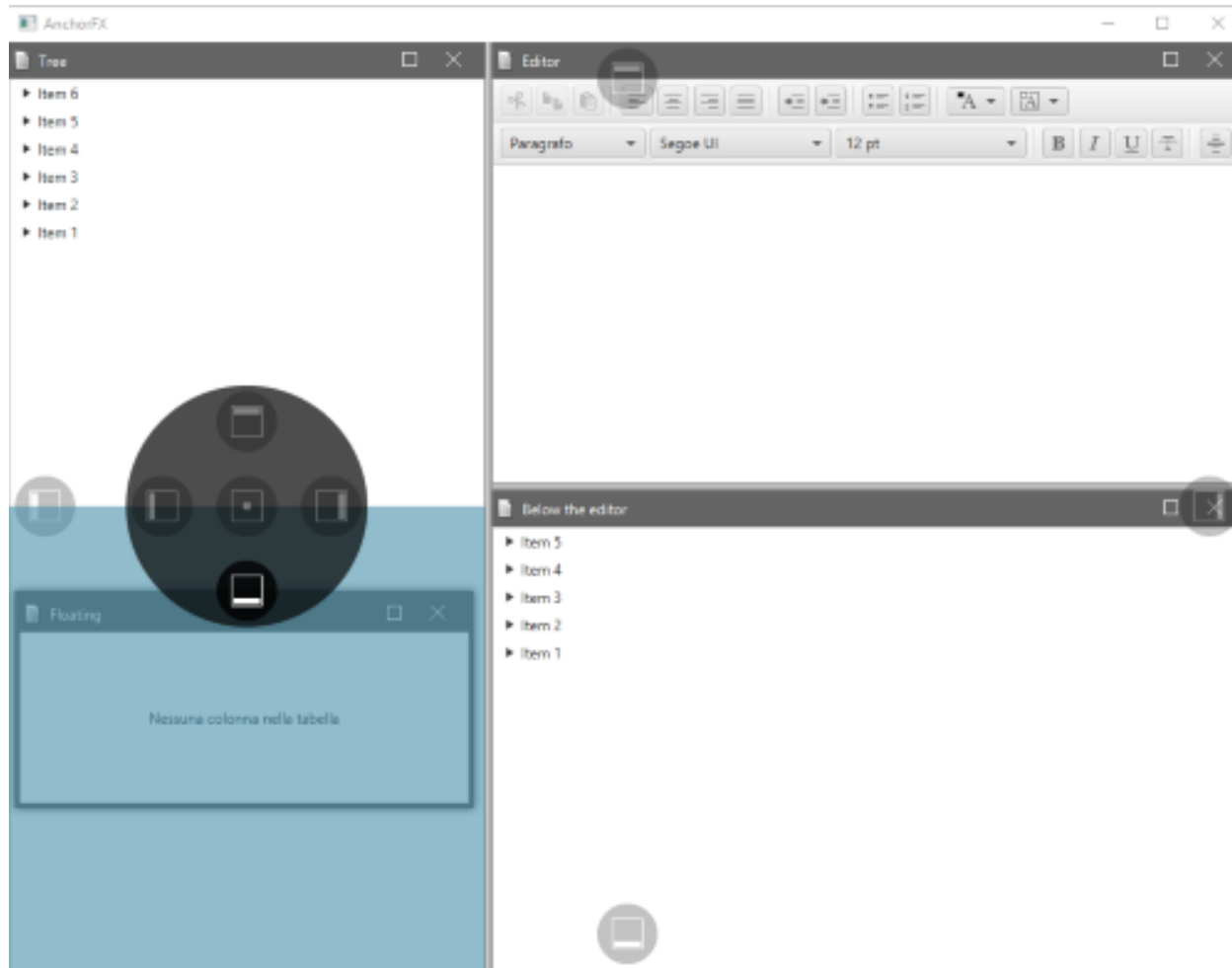
Eclipse RCP + JavaFX Views

eFX - <https://bitbucket.org/sreimers/efx>

NetBeans RCP + JavaFX Views

LIBRARIES

AnchorFX - <https://github.com/aalmiray/AnchorFX>



VWorkflows - <https://github.com/miho/VWorkflows>



ReactFX - <https://github.com/TomasMikula/ReactFX>

Flowless - <https://github.com/TomasMikula/Flowless>

UndoFX - <https://github.com/TomasMikula/UndoFX>

WellbehavedFX - <https://github.com/TomasMikula/WellBehavedFX>

RxJavaFX - <https://github.com/ReactiveX/RxJavaFX>

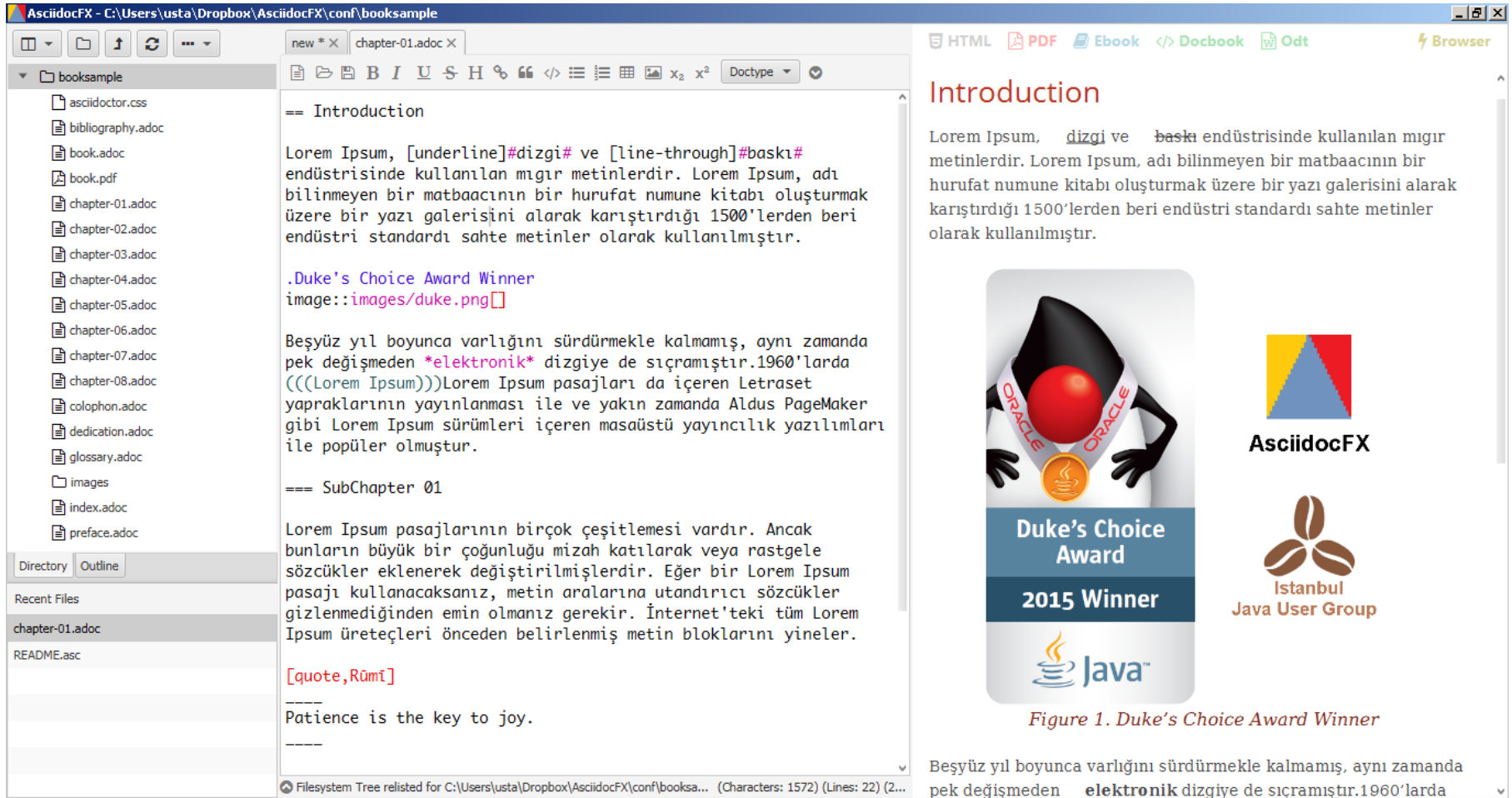
MISC

GroovyFX - <http://groovyfx.org/>



```
application(title: 'Sample', sizeToScene: true,
centerOnScreen: true) {
    scene(fill: WHITE, width: 300, height: 120) {
        migLayoutPane(layoutConstraints: 'fill') {
            label 'Username:', constraints: 'left'
            textField constraints: 'grow, wrap')
            label 'Password:', constraints: 'left'
            passwordField constraints: 'grow, wrap')
            button loginAction, constraints: 'span 2, right'
        }
    }
}
```


AsciiDocFX - <http://asciidocfx.com/>



The screenshot displays the AsciiDocFX application interface. On the left, a file explorer shows a directory named 'booksample' containing various files like 'asciidoc.css', 'bibliography.adoc', 'book.adoc', 'book.pdf', and several 'chapter-01.adoc' through 'chapter-08.adoc' files. The main editor area shows the content of 'chapter-01.adoc' with the following text:

```
== Introduction

Lorem Ipsum, [underline]#dizgi# ve [line-through]#baskı#
endüstrisinde kullanılan mığır metinlerdir. Lorem Ipsum, adı
bilinmeyen bir matbaacının bir hurufat numune kitabı oluşturmak
üzere bir yazı galerisini alarak karıştırdığı 1500'lerden beri
endüstri standardı sahte metinler olarak kullanılmıştır.

.Duke's Choice Award Winner
image::images/duke.png[]

Beşyüz yıl boyunca varlığını sürdürmekle kalmamış, aynı zamanda
pek değişmeden *elektronik* dizgiye de sıçramıştır.1960'larda
(((Lorem Ipsum)))Lorem Ipsum pasajları da içeren Letraset
yapraklarının yayınlanması ile ve yakın zamanda Aldus PageMaker
gibi Lorem Ipsum sürümleri içeren masaüstü yayıncılık yazılımları
ile popüler olmuştur.

=== SubChapter 01


Lorem Ipsum pasajlarının birçok çeşitlemesi vardır. Ancak
bunların büyük bir çoğunluğu mizah katılarak veya rastgele
sözcükler eklenerek değiştirilmişlerdir. Eğer bir Lorem Ipsum
pasajı kullanacaksanız, metin aralarına utandırıcı sözcükler
gizlenmediğinden emin olmanız gerekir. İnternet'teki tüm Lorem
Ipsum üreticileri önceden belirlenmiş metin bloklarını yineler.

[quote,Rüml]
-----
Patience is the key to joy.
-----
```


On the right, the rendered HTML preview shows the same content with the following structure:

Introduction


Lorem Ipsum, dizgi ve ~~baskı~~ endüstrisinde kullanılan mığır metinlerdir. Lorem Ipsum, adı bilinmeyen bir matbaacının bir hurufat numune kitabı oluşturmak üzere bir yazı galerisini alarak karıştırdığı 1500'lerden beri endüstri standardı sahte metinler olarak kullanılmıştır.



The badge features a cartoon character wearing a white cape with 'ORACLE' written on it, holding a gold medal. Below the character, the text reads 'Duke's Choice Award' and '2015 Winner'. At the bottom, the Java logo is displayed.



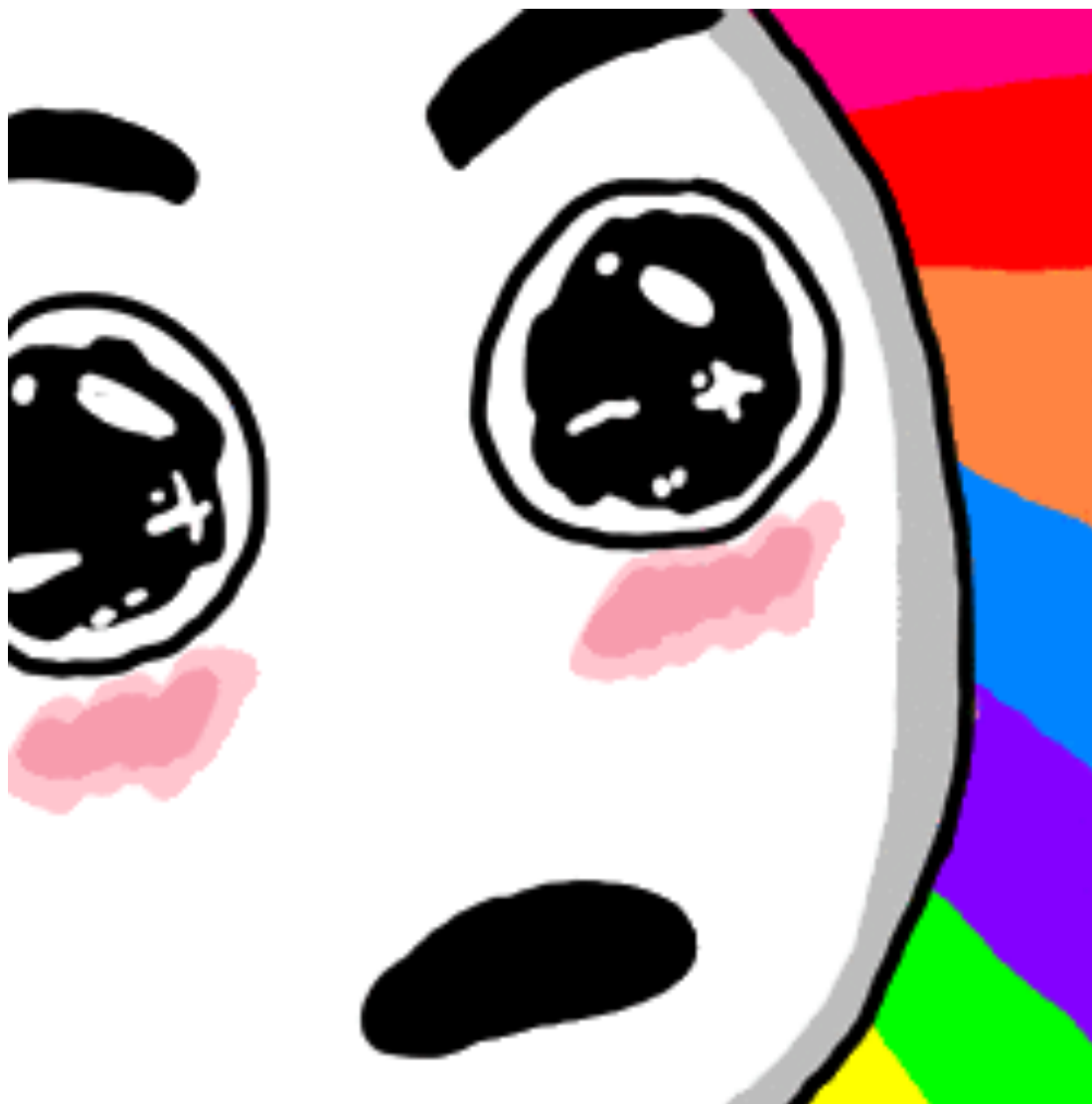
The logo consists of a square divided into four triangles of different colors: yellow, red, blue, and white.



The logo features three stylized coffee beans arranged in a triangular pattern, with the text 'Istanbul Java User Group' below it.

Figure 1. Duke's Choice Award Winner

Beşyüz yıl boyunca varlığını sürdürmekle kalmamış, aynı zamanda pek değişmeden **elektronik** dizgiye de sıçramıştır.1960'larda



THANK YOU!

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