

# JavaFX

Christoph Pickl



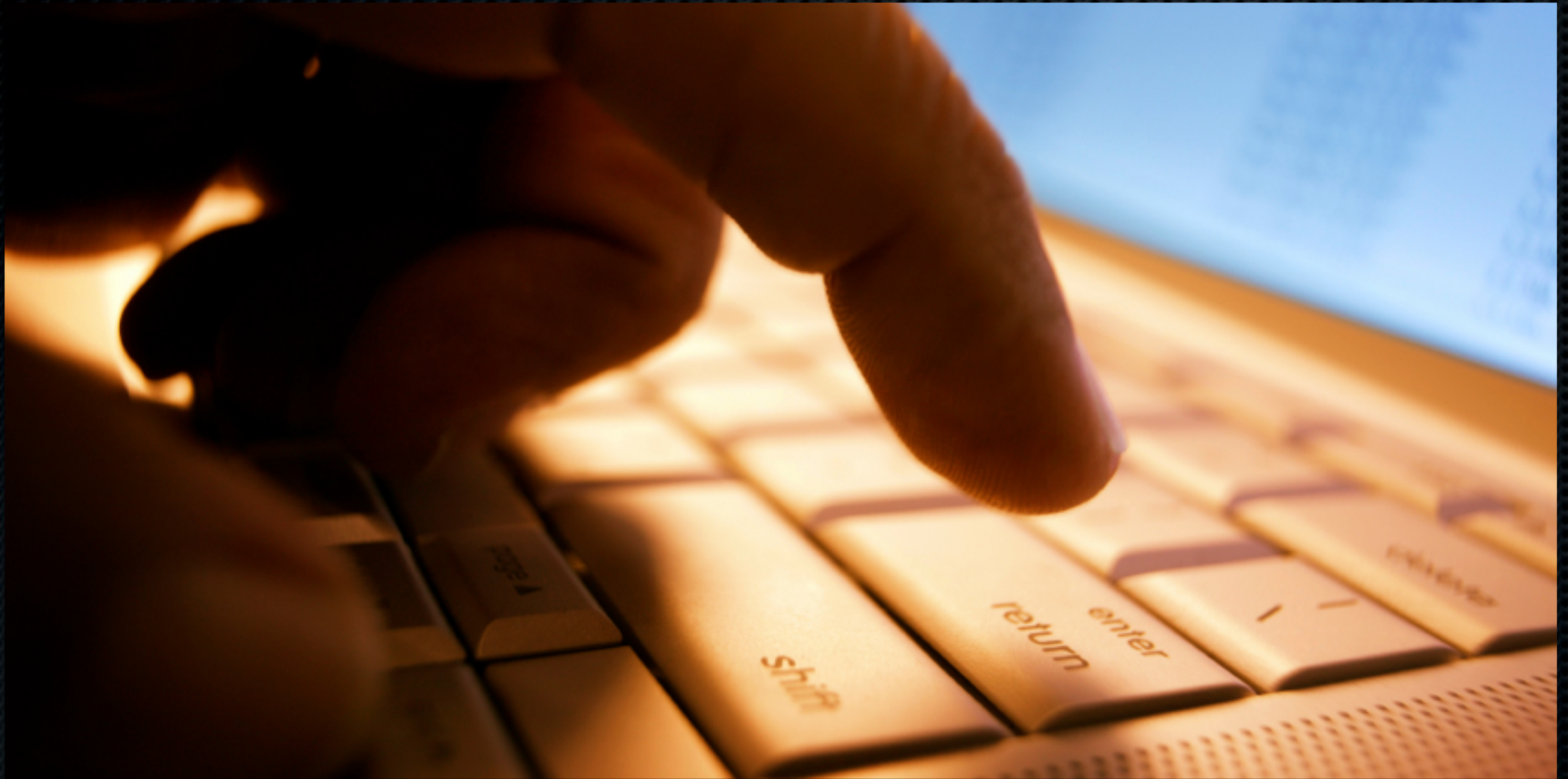
# Agenda

1. Introduction

2. Theory

3. Showcase





# Introduction

History, Background, Troubles



# History

- ✦ JavaFX Script (before F3: Form Follows Function)
- ✦ Sun acquired SeeBeyond Technology 2005
- ✦ First announcement May 2007 at JavaOne
- ✦ was interpreted instead of compiled



Chris Oliver



# Background

- ✦ targets Rich Internet Application domain
- ✦ replaces Swing and Webstart
- ✦ Open Sourced via OpenJFX project (GPL)
- ✦ Intended for Swing-/Web-Developers
- ✦ Java SE 6 recommended (5 supported)





# Troubles

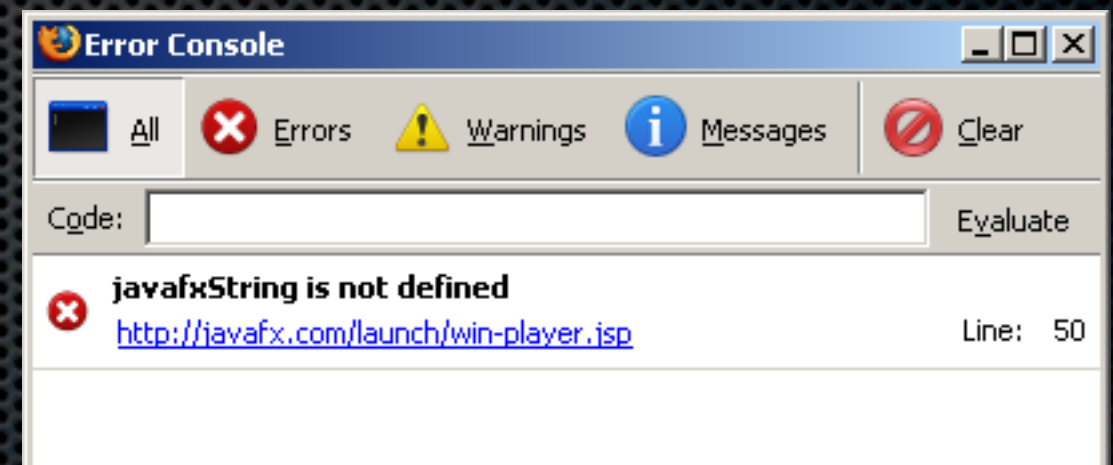
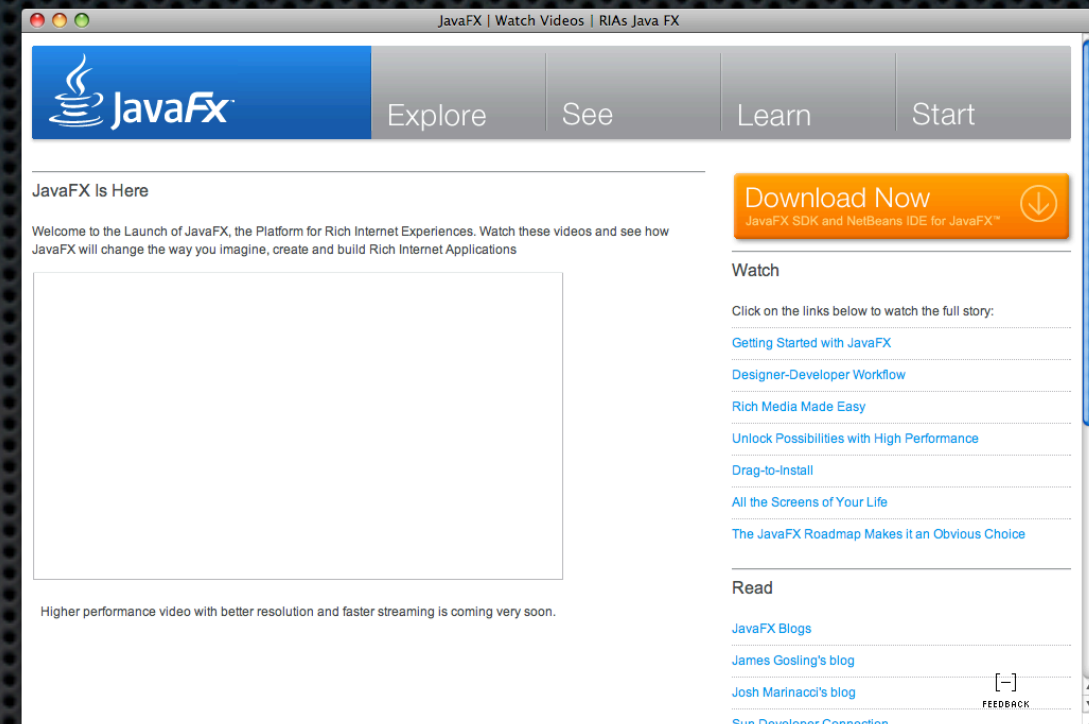
Website broken

Eclipse Plugin

Maven Plugin

Unstable Syntax

Outdated Tutorials







# Theory

Syntax, Language Features



# Syntax

- ✦ Declarative or Procedural Syntax (object-oriented)
- ✦ kind of JSON notation (no XML)
- ✦ static typed with type inference (declaration optional)
- ✦ no other language extensions (such as: E4X, LINQ)

```
javafx.stage.Stage { title: "Hello JSUG"  
    width: 200 height: 150 visible: true }
```



# Syntax

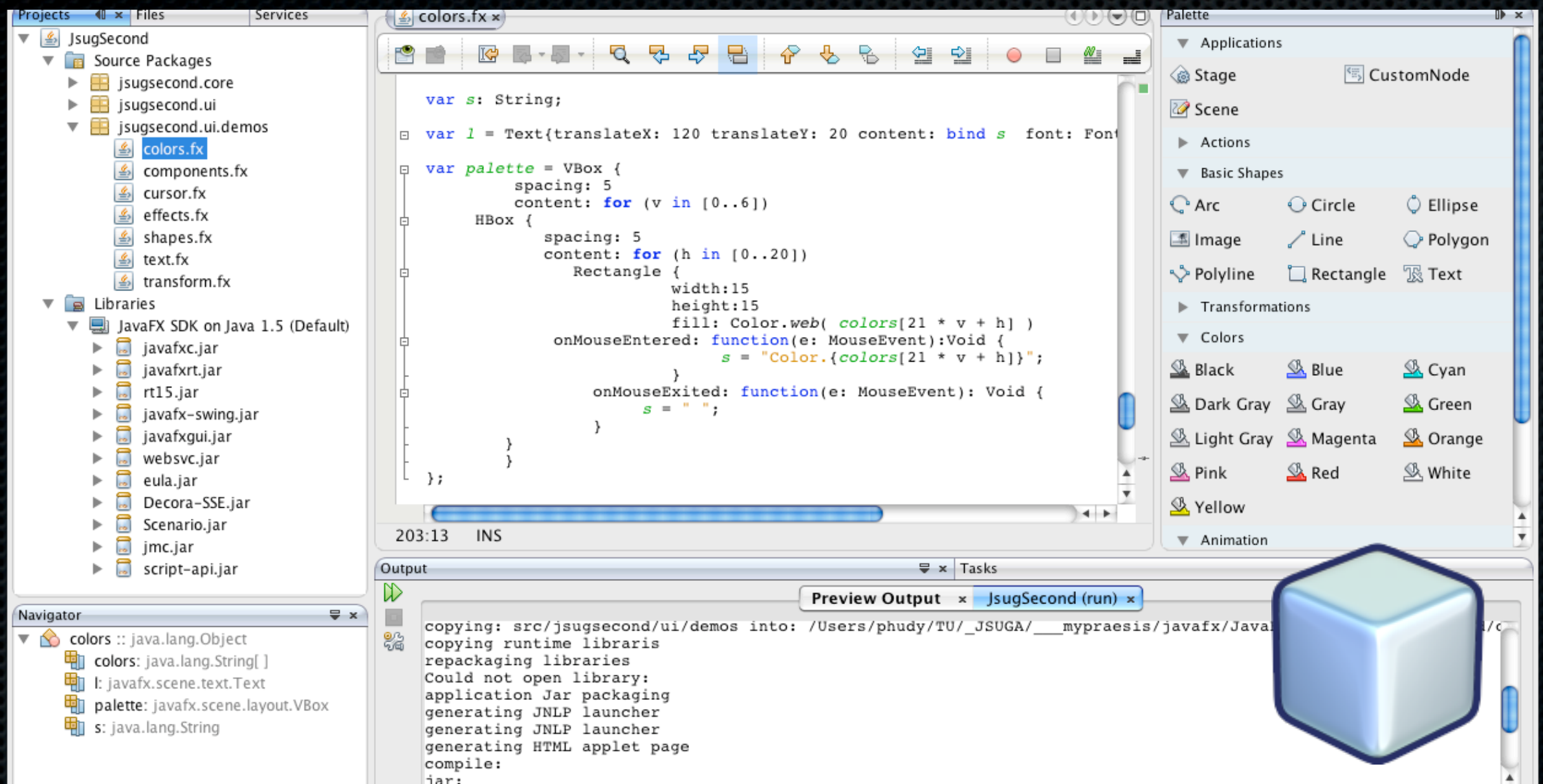
	Java	JavaFX
<b>Simple</b>	<code>= + - * / %</code>	<code>= + - * / mod</code>
<b>Compound</b>	<code>+= -= *= /= %=</code>	<code>+= -= *= /=</code>
<b>Comparison</b>	<code>&lt; &lt;= &gt; &gt;= !=</code>	<code>&lt; &lt;= &gt; &gt;= !=</code>
<b>Logical</b>	<code>&amp;&amp;   </code>	<code>and or</code>
<b>Creation</b>	<code>new X();</code>	<code>new X(); X { };</code>
<b>Variable</b>	<code>Person p;</code>	<code>var p: Person;</code>
<b>Method</b>	<code>private String f();</code>	<code>function f(): String;</code>
<b>Strings</b>	<code>println("x: " + x);</code>	<code>println("x: {x}");</code>



# Language Features

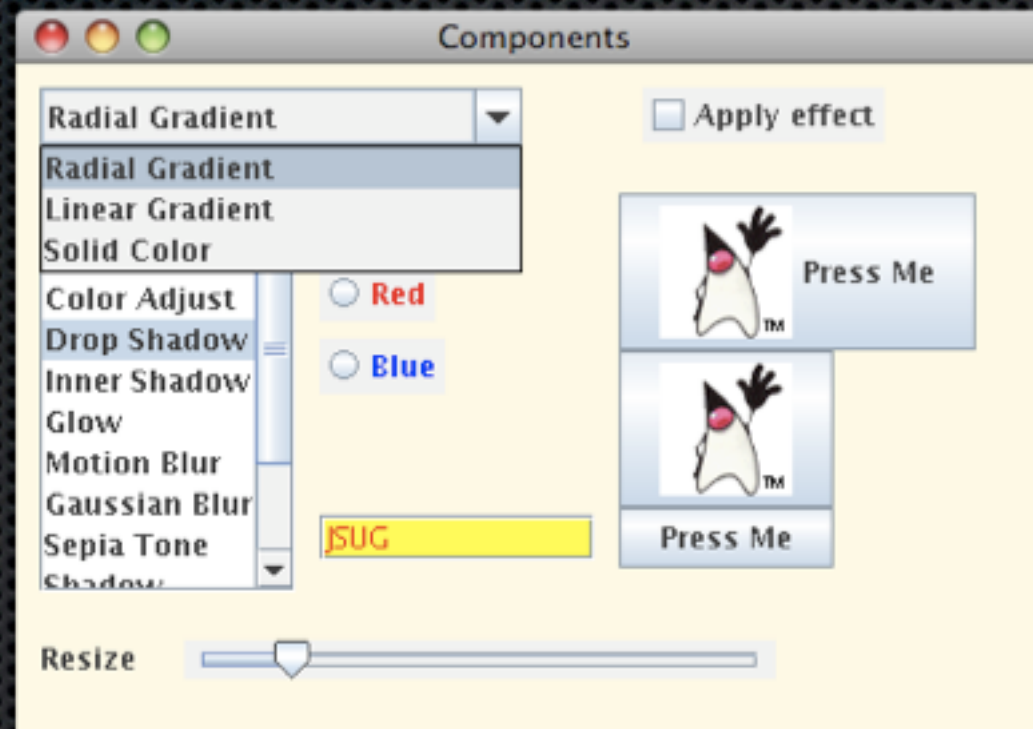
- ✧ Binding
- ✧ Sequences
- ✧ Object Literal Notation
- ✧ Multiple Inheritance, Exceptions
- ✧ ... Java!





# Showcase







# Links

- ✧ <http://javafx.com>
- ✧ <http://java.sun.com/javafx/1/tutorials/core/>
- ✧ <http://java.sun.com/javafx/1/tutorials/ui/>
- ✧ ... [http://jsug.fsinf.at/Meeting\\_8](http://jsug.fsinf.at/Meeting_8)

