



Скрипты с Java FX

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План обсуждения



☐ а Java FX?

☐ FX?

☐ ☐ 10k

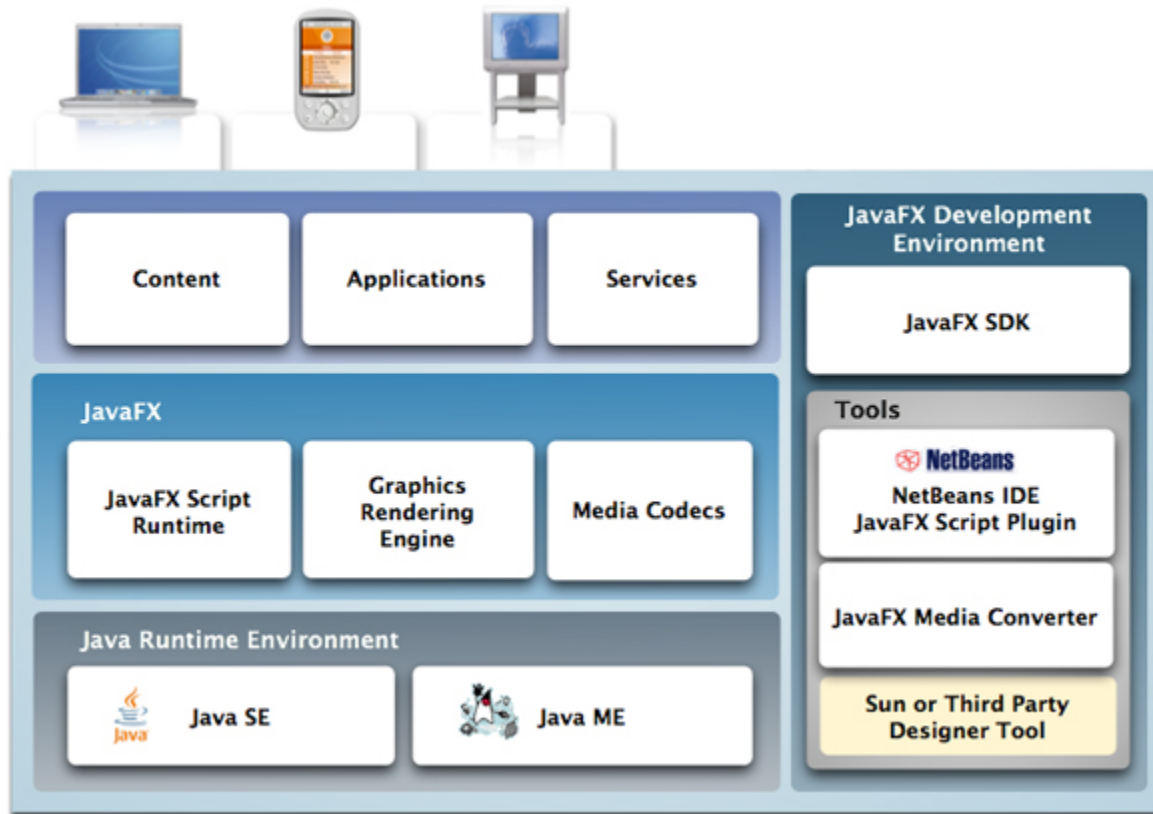
Java FX ☐ ☐ !

☐ ☐ ☐ ☐ n ?

Что такое Java FX?

- JavaFX – технология на стороне клиента для создания Богатых Интернет приложений.
- Нацелена на разные платформы:
 - > ПК,
 - > Мобильные решения,
 - > ТВ,
 - > Браузер (через плагин)
 - > и т.п.

Платформа Java FX



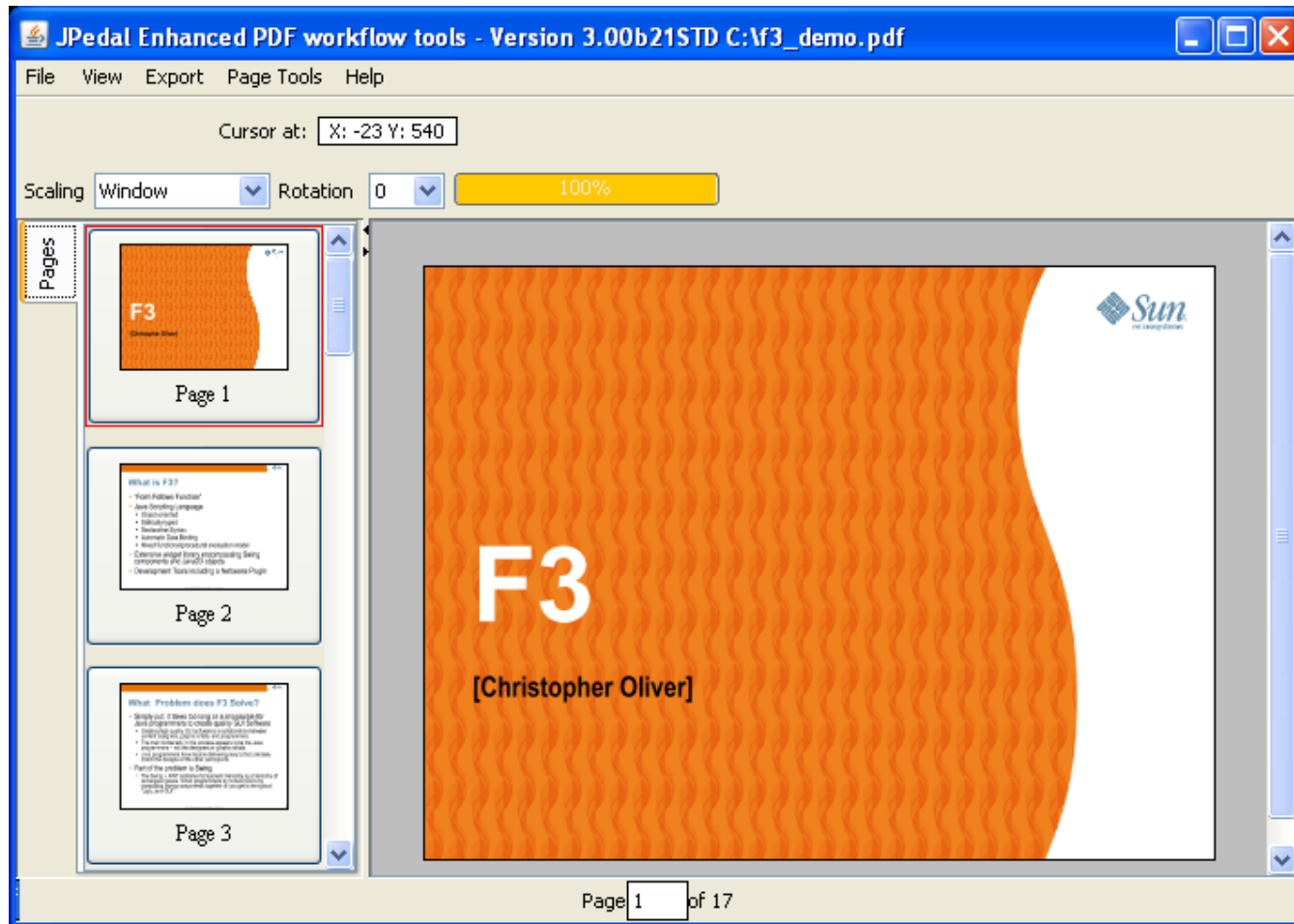
Когда?

- JavaFX Script – бета
- JavaFX Designer Authoring Tool – весна 2008
- JavaFX Media Converter – лето 2008
- JavaFX Desktop – осень 2008
- JavaFX Mobile – весна 2009
- JavaFX TV – лето 2009

Почему Java FX?

- 1. GUI (y)
 - > NetBean a , ...
 - > listeners.
- GUIs (7 Java!)
 - > Flash m
- Java 2D
 - > M (
 - > i “ я
- -+

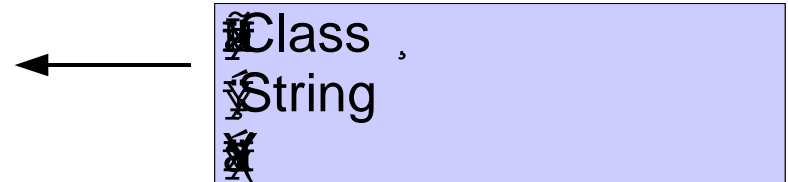
Может выглядеть вот так...



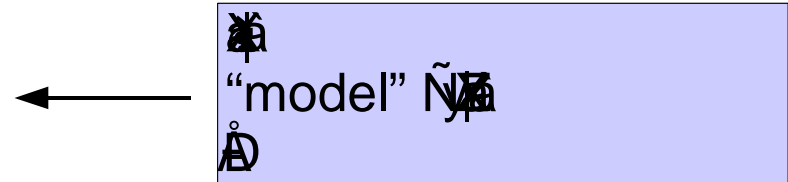
-- Christopher Oliver, Sun Microsystems, Inc. Java One 2007

Java FX: Учим за 10 минут

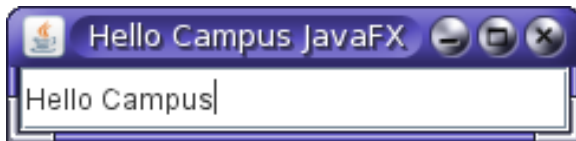
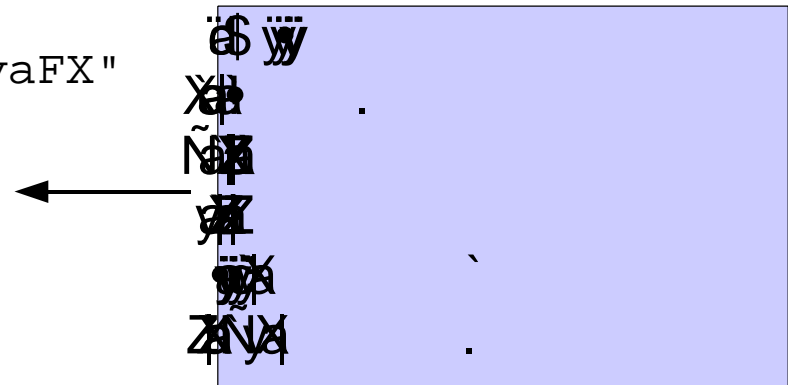
```
class HelloWorldModel {
    attribute saying: String;
}
```



```
var model = HelloWorldModel {
    saying: "Hello Campus"
};
```



```
var win = Frame {
    title: bind "{model.saying} JavaFX"
    width: 200
    content: TextField {
        value: bind model.saying
    }
    visible: true
};
```



Java FX: Учим за 10 минут

```
import java.lang.StringIndexOutOfBoundsException;

operation substring(s:String, n:Number): String {
  try {
    return s.substring(n);
  } catch (e:StringIndexOutOfBoundsException) {
    throw "sorry, index out of bounds";
  }
}
```

StringIndexOutOfBoundsException

Java

String

Java FX: Учим за 10 минут

<code>var x = [1,2,3];</code>	←	<code>本本</code>
<code>insert 10 into x;</code>	←	<code>yields [1, 2, 3, 10]</code>
<code>insert 12 before x[1];</code>	←	<code>yields [1, 12, 2, 3, 10]</code>
<code>delete x[. == 12];</code>	←	<code>yields [1, 2, 3, 10]</code>
<code>delete x[. >= 3];</code>	←	<code>yields [1, 2]</code>
<code>insert 5 after x[. == 1];</code>	←	<code>yields [1, 5, 2]</code>
<code>insert 13 as first into x;</code>	←	<code>yields [13, 1, 5, 2]</code>
<code>delete x;</code>	←	<code>yields []</code>

```
function factors(n) {
    return select i from i in [1..n/2] where n % i == 0;
}
```

`本本`
`本 本 !!!`

Java FX: Учим за 10 минут

```

class X {
    attribute nums: Number*;
}

trigger on new X {
    insert [3,4] into this.nums;
}

trigger on insert num into X.nums {
    System.out.println("just inserted {num} into X.nums at
        position {indexof num}");
}

trigger on X.num[oldValue] = newValue {
    System.out.println("X.num: just replaced {oldValue} with
        {newValue}");
}

```



Java FX: Учим за 10 минут

```
import javafx.ui.canvas.*;
import javafx.ui.*;
```

Canvas 

~~Canvas~~ ~~äÅ~~

```
Canvas {
  content: Group {
```

~~Group~~ ~~äÅ~~

```
    transform: [rotate(20,0,0)]
```

~~rotate~~ ~~äÅ~~

```
    content:
      [Rect {
        x: 20
        y: 20
        height: 80
        width: 300
        ...
      },
```

~~Rect~~ ~~2D~~

```
      Ellipse {
        cx: 150
        cy: 80
        ...
      },
```

```
    ]
  }
}
```

demo



Java FX

Что делать



- Java FX & Netbeans Eclipse
- OpenJFX Java.net
- Java FX
- Java FX
- -

<http://openjfx.dev.java.net>

Java FX Ресурсы

- Java FX Project Site: <http://openjfx.dev.java.net>
 - > Java.net: Download early versions of Java FX
 - > IDE Plugins, Tutorials, Forums, FAQs
 - > “Getting Started With the JavaFX Script Language”
 - > “JavaFX Script 2D Graphics Tutorial”
 - > “The JavaFX Script Programming Language Reference”
- Planet FX Wiki: http://jfx.wikia.com/wiki/Main_Page
 - > Open-source documentation site for Java FX
- Chris Oliver's Blog: <http://blogs.sun.com/chrisoliver/>
 - > Latest news, other informal information
 - > Source code for lots of demos (Space Invaders, Calculator)
- Sun's Java FX Site: <http://www.sun.com/software/javafx/>
 - > Sun Microsystems official product page



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<http://openjfx.dev.java.net>

СПАСИБО!

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