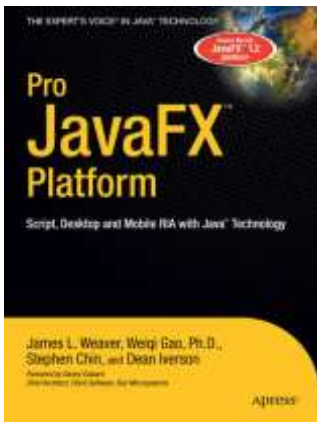




Supercharging Your JavaFX Programs with WidgetFX and JFXtras

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WidgetFX

The JavaFX Desktop Widget Platform



WidgetFX Origins



Why another desktop widget framework?

> **Open-Source**

- But widgets can be licensed commercially

> **Write Widgets in Java & JavaFX**

- HTML, CSS, and Javascript are great for websites, but not app development

> **Cross-Platform Support**

- Windows XP/Vista, Linux, and Mac OS X.

> **One-Click Installation**

- Plus automatic updates of the dock **and** widgets.

> **Robust Security**

- Secure sandbox + signed widgets

Built-in Widgets

- > Clock
 - Skinnable via CSS
- > Slide Show
 - Configurable Directory, Speed, & Filter
- > Web Feed
 - Supports Atom and all RSS flavors



Dock Features

- > Drag to desktop
- > Resize widgets (option for fixed aspect ratio)
- > Per widget transparency
- > Widget settings saved on restart
- > Toggle dock always-on-top
- > Launch on start-up
- > Multi-monitor support
- > Dock and widgets can be styled via CSS

Movie Widget Tutorial



Widget Properties

Name	Type	Inherited From	Description
width	Number	Resizable	Initial width of the widget.
height	Number	Resizable	Initial height of the widget.
aspectRatio	Number	Widget	If set, defines a fixed aspect ratio for the widget width and height.
content	Node[]	Group	Visible children of the widget. Contains a sequence of Nodes.

Widget Definition

```
var widget: Widget;
widget = Widget {
    width: 640
    height: 352
    aspectRatio: bind player.media.width
                  / player.media.height
    content: bind player
}
```

Load the Media

```
var source =  
    "http://projavafx.com/movies/  
    elephants-dream-640x352.flv";  
var player = bind SimpleMoviePlayer {  
    media: Media {  
        source: source  
    }  
    width: bind widget.width  
    height: bind widget.height  
}
```

Run in Widget Runner



Widget Configuration Properties

Class Name	Type	Description
BooleanProperty	Boolean	This class allows you to persist sequences of Booleans
BooleanSequenceProperty	Boolean[]	This class allows you to persist sequences of Booleans
IntegerProperty	Integer	This class allows you to persist Integers
IntegerSequenceProperty	Integer[]	This class allows you to persist sequences of Integers
LongProperty	Long	This class allows you to persist Longs
LongSequenceProperty	Long[]	This class allows you to persist sequences of Longs
NumberProperty	Number	This class allows you to persist Numbers
NumberSequenceProperty	Number[]	This class allows you to persist sequences of Numbers
StringProperty	String	This class allows you to persist Strings
StringSequenceProperty	String[]	This class allows you to persist sequences of Strings

Widget Configuration

```
widget = Widget {  
    ...  
    configuration: Configuration {  
        properties: [  
            StringProperty {  
                name: "source"  
                value: bind source with inverse  
            }  
        ]  
        scene: Scene {...} // see next page  
    }  
}
```

Widget Config Dialog

```
Scene {
  content: Grid {
    rows: row([
      Text {
        content: "Source URL:"
      },
      TextBox {
        columns: 30,
        value: bind source with inverse
      }
    ])
  }
}
```

Add an On-Replace Trigger

```
var player = bind SimpleMoviePlayer {  
  media: Media {  
    source: source  
  }  
  width: bind widget.width  
  height: bind widget.height  
} on replace =oldPlayer {  
  oldPlayer.player.stop();  
}
```

Widget Configuration (demo)



SlideFlow Widget (new)



 launch

The Pac-Man Challenge!

- > “I Wish... Henry Zhang would make a WidgetFX widget from his JavaFX Pac-Man game”

-- Jim Weaver
javafxpert.com



Jim Weaver's
JavaFX™ Blog

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The Pac-Man Challenge!

- > With about one week to go, I think it is interesting and fun to give it a try.

...

After adjusting the width and height, it was just simply working! (see the image on the [right])



-- Henry Zhang



javafxgame.com



So What is With the Bunny?



Meet Nabaztag

- > Wifi-Enabled Rabbit
- > 4 Multi-Colored LEDs
- > Rotating Ears
- > Text to Speech Conversion
- > Audio Sensor for Command Input
- > REST API for Interactions



Nabaztag Widget

- > Widget Functionality:
 - Send Messages Using Text-to-Speech
 - Move the Ears
 - Send a Choreography
 - Play an Audio Stream

Nabaztag API

> REST call for sending messages:

- `http://api.nabaztag.com/v1/FR/api.jsp?sn=0013D3862711&token=1242371191&tts>Hello+SD+Forum`

> REST call for repositioning ears:

- `http://api.nabaztag.com/v1/FR/api.jsp?sn=0013D3862711&token=1242371191&posleft=4&posright=5`

Nabaztag Code & Demo



Widget Development Contest



WidgetFX Developer Contest

Win a

Year of Books

Sponsored By:



<http://widgetfx.org/>

- > Sign up at <http://widgetfx.org/>

Contest Details

> How to Enter:

1. Download the WidgetFX 1.2 SDK
2. Develop a desktop widget that runs in WidgetFX
3. Submit your widget to the Widget Library

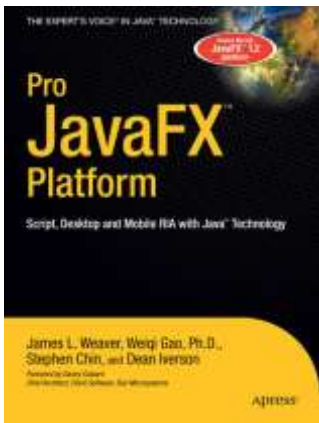
> Prizes:

1. 12 free e-books, one a month for a year
2. 3 free e-books
3. 1 free e-book

> Deadline:

- August 31st

*widget***FX** Thank You



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