The Future of Rich Internet Applications

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Adobe Systems
Overall Presentation Goal

Make your eyes bleed with the awesomeness
Agenda

- Flex Today
- Latest Flash Runtime Features
- Flex Tomorrow: Gumbo
- Spring and Flex
- Model-Driven RIAs
What is Flex?

Flex SDK
- MXML
- ActionScript
- Flex Class Library
- Debuggers

Flex Builder IDE

```xml
<?xml version="1.0" encoding="utf-8"?>
    xmlns="*" layout="absolute"
    creationComplete="initApp()">
    <mx:Script>
        private function initApp():void {
            hs.send();
        }
    </mx:Script>

    <mx:HTTPService id="hs" url="data/catalog.xml"/>

    <mx:Panel layout="vertical" top="10" left="10"
    right="10" bottom="10">
        <mx:TileList itemRenderer="Thumb" width="100%" height="100%"
            dataProvider="(hs.lastResult.catalog.product)"/>
    </mx:Panel>
</mx:Application>
```
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Flex Builder IDE

Compile

SWF

Browser
- Flash Player

Web Server

www.devoxx.com
What is Flex?

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Flex Builder IDE

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Browser
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Web Server
- XML/HTTP
- REST
- SOAP

J2EE App Server

Existing Applications & Infrastructure

SOAP
HTTP/S
AMF/S
RTMP/S

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Flex Today

- Applications of all kinds, enterprise, video sites, e-learning, creative tools
- Used inside Adobe (acrobat.com, Premiere Express) and outside
- Fantastic adoption, doubling developer-base every year
- Built on the Flash Platform: 98% of Internet-connected PCs, 90% penetration of a given release in 12 months
Flash Player 10

- Released in October
- 3D: "Billboards in Space" (Cloth demo)
- Pixel Bender (Fotobooth)
- Flash Text Engine (FTE) and Text Layout Framework (TLF) (Text demo)
- Sound (Noteflight)
AIR 1.5 Features

• Released at MAX in November
• Flash Player 10 Features
• Encrypted Local Storage
Flex Tomorrow: Gumbo

• Support for Flash Catalyst
• Spark Component Architecture
• New states model
• New animation model
• … and more!
Spark Components

- Separating the logic from the visuals
- Completely customizable components
New States Model

- Declaring states inline
- More developer-friendly
Gumbo: Animation Model

• Animating arbitrary objects and types
• Adding effects for new Flash Player features
• 3D, PixelBender
• Improving APIs and Functionality of effects
More Flex Future Goodness

- Enhanced CSS Support
- Two-way data binding
- Faster compiler
- ~5,600,786 bug fixes (bugs.adobe.com/flex)
Spring and Flex

• Demo
Model Driven Flex

- Demo
Q&A
Thanks for your attention!