

ESRI Developer Summit

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Using and Extending the ArcGIS WebMap for Flex

Bjorn Svensson

Moxie Zhang (replaced by Mansour Raad)



Agenda

- **Introduce out-of-the-box configurable web mapping application**
 - the new “Flex Viewer”
 - ArcGIS Application for Flex
 - Easy to extend
- **Describing the application “framework”**

Sample Flex Viewer -> ArcGIS Application for Flex

- Same concepts
- Minor changes to configuration files
- Built on Flex 4, thus requires Flash Player 10 or above.

ArcGIS Web Mapping APIs

Building Web clients

- ESRI offers APIs for
 - JavaScript
 - Flex
 - Silverlight
- Provide a comprehensive framework for creating GIS enabled Web mapping applications
 - Fully support ArcGIS Server functionality and services
 - Also work with ArcGIS Online services
- Primarily geared towards developers



Adobe



ArcGIS Application for Flex

“Out-of-the-box” Web application

- ESRI solution for creating GIS enabled Web mapping applications, **without requiring programming**
- Designed with the “non-developer” in mind
- Builds upon and enhances the successful *Sample Flex Viewer*
 - Most popular Flex API code gallery sample
- Download from the **ESRI Resource Center**
- Application source code is available
- Strong community
- Developed by the ESRI core development team
- Technical Support available



ArcGIS Application for Flex

Capabilities

- Enables GIS Web mapping applications to be built easily and quickly
 - Uses a '*configure and deploy*' approach
 - Supports basemaps and operational layers
- Configurable Web Map application
 - Configuration files enable changes to
 - Appearance
 - Functionality (via widgets)
 - Data content
- Widgets → modular functionality
 - Extensible programming model included

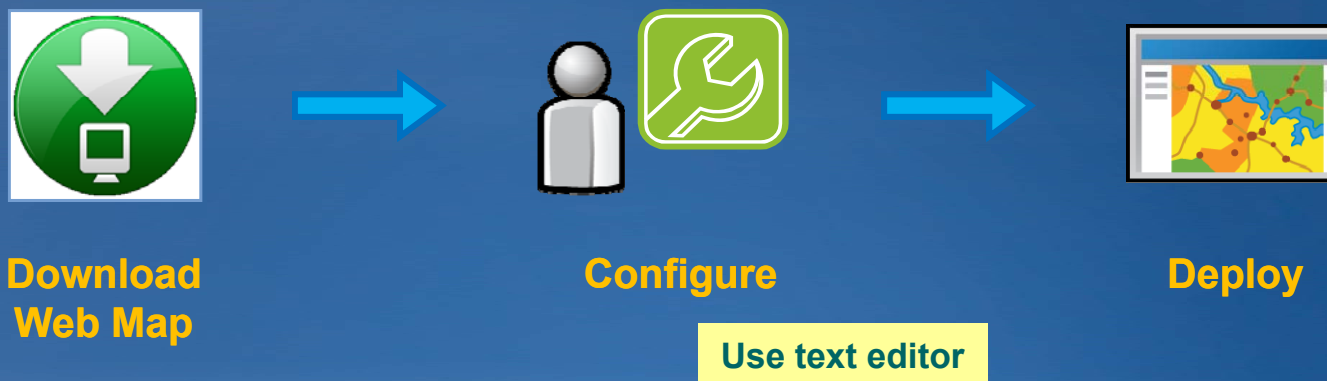


Workflow comparison

- **Web Mapping APIs**



- **ArcGIS Application for Flex**



Authors of the Flex Application

- **Non-developers**

- Configure the application without programming
- Leverage existing widgets
- Create Web applications that access ArcGIS services



- **Developers**

- Focused group of users (e.g., business partners)
- Extend application functionality
 - Change behavior of existing widgets
 - Create new widgets



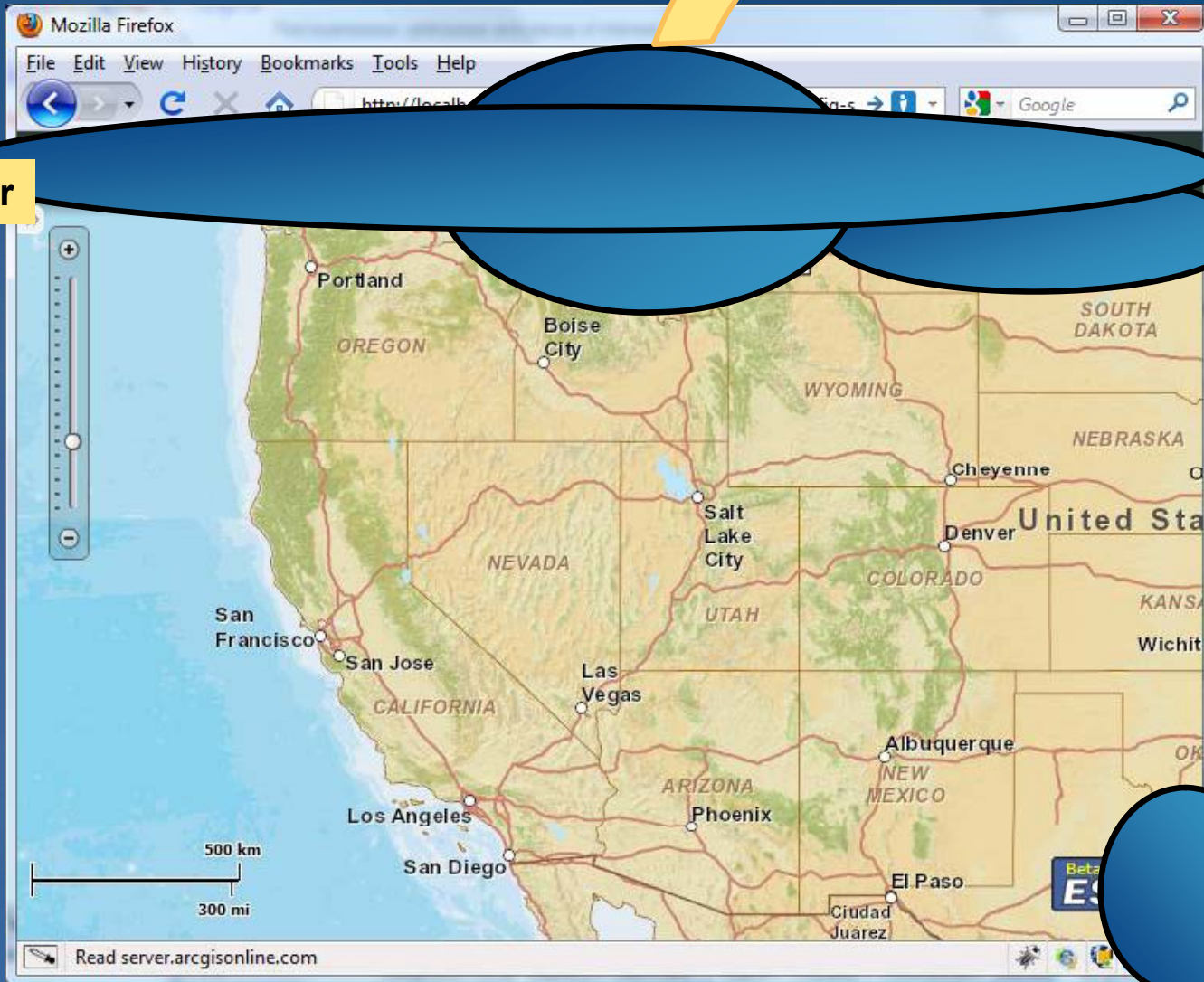
Application components

Widgets

Header Controller

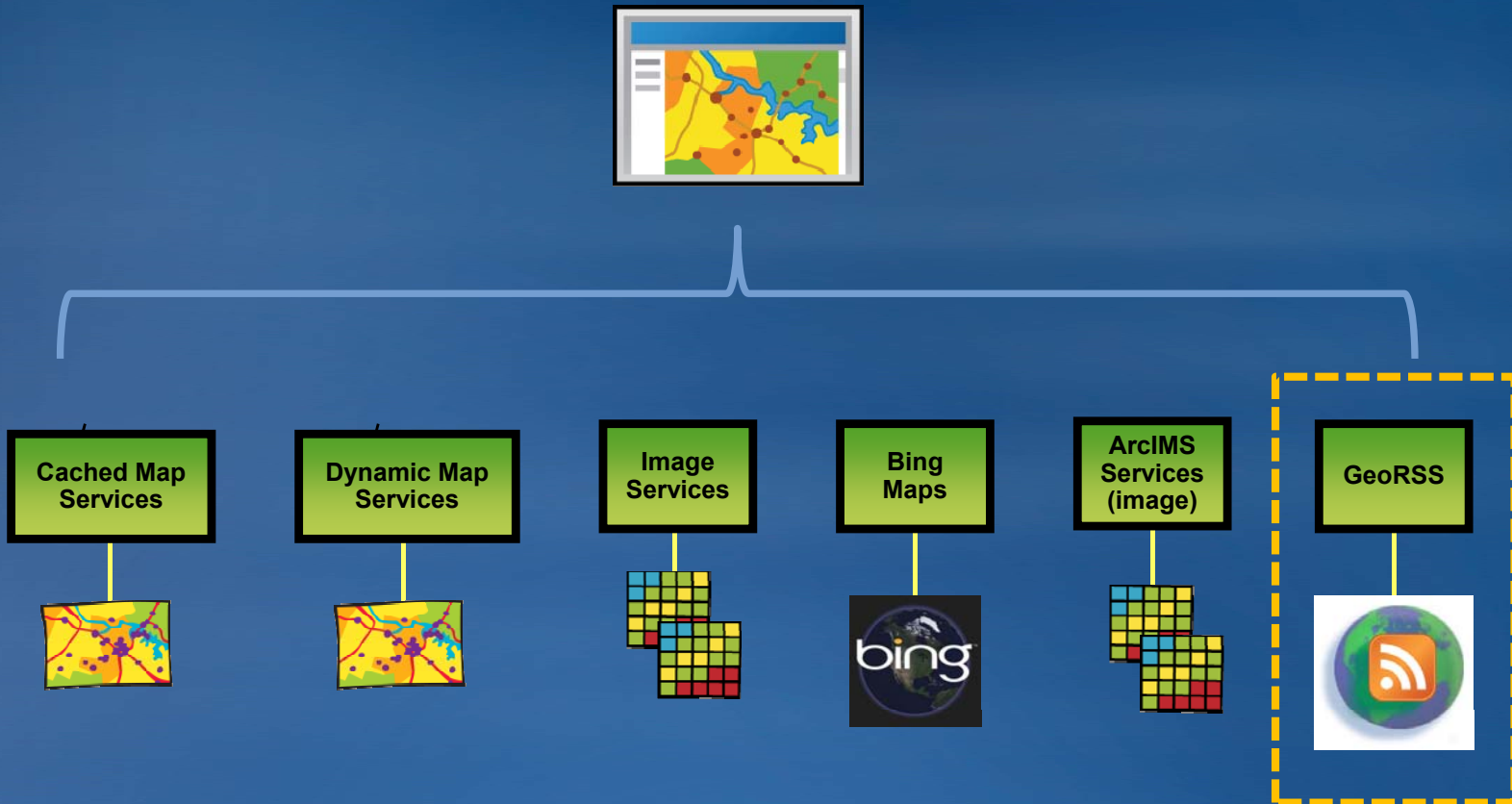
Map Switcher

Overview Map



Supported geographic content

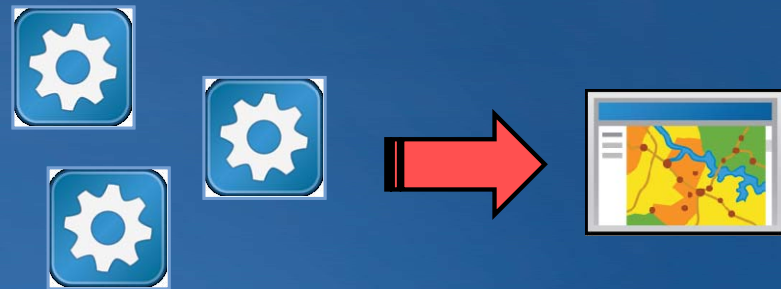
ArcGIS Web Map for Flex



ArcGIS Web Map for Flex functionality

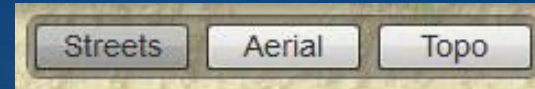
Based on Widgets

- Application functionality defined by widgets
- Several widgets included with application
- Additional widgets available from the Widget Gallery
 - Ready to be used ‘out-of-the-box’
 - Code is available (in most cases)
 - Configurable for use with your own services
 - Part of the ESRI Resource Center



Widget Gallery

- Base Map Switcher
- Overview map
- Bookmark
- Draw/Sketch
- Editing
- Search
- Quick Print
- Share Map
- Routing/Driving Directions
- ...



Base Map Switcher



Bookmarks widget



Overview map widget

Widget Gallery – Possible additions

- **Extract Data ***
- **High Quality Print ***
- **Time Slider**
- **Service Area/Closest Facility**
- **Table of Contents**



Data extraction widget

System Requirements

- **Flex SDK 4.0**
- **Flash Player 10.0**
- **A text editor: Notepad, TextPad etc**
- **For widget developers: Flash Builder 4.**

ArcGIS Web Map for Flex

Benefits and business value

1. Business solution

- Starting template to create custom Web mapping applications
- Address specific business requirement needs
- Simplify end user experience

2. Application development

- Focus on developing functional solutions on an existing UI
 - No need to re-architect underlying framework
- Create new widgets to add functionality to the application
- Low entry barrier to learn Flex API development

Summary – ArcGIS Web Map for Flex



- ESRI solution for creating GIS enabled Web maps, **without requiring programming**
- Designed with the “non-developer” in mind
- **Configurable Web Map application**
 - Enables GIS Web maps to be built easily and quickly
 - Uses a ‘*configure and deploy*’ approach
 - Includes an **extensible widget programming model**
- Developed by the ESRI core development team
- Technical Support available

Deployment

Looking ahead

- **Public beta early summer**
- **Final release summer 2010**

Summary

- Today we covered
 - Configurable GIS Web mapping application
 - Extendable – all source code available

Still have questions?

Other Flex Sessions...

- **Meet the Team**
 - Tue. 3/23, 6:00 – 7:30 p.m.
- **Technical Sessions**
 - **Working with the ArcGIS API for Flex**
 - Wed. 3/24, 10:30am-11:45am, Primrose A (PSCC)
 - Thu. 3/25, 1:30pm-2:45pm, Pasadena/Ventura/Sierra
 - **Patterns and Best Practices for Building Applications with ArcGIS API for Flex**
 - Thu. 3/24, 10:15am-11:30am, Pasadena/Ventura/Sierra

Please complete the session survey!

Want to Learn More?

ESRI and Adobe Resources

- **ArcGIS Resource Center**

- Samples, API Reference, Concepts, Community

- 9.3: <http://resources.esri.com/arcgisserver/apis/flex/>

- 10.0: <http://resources.arcgis.com/content/arcgis-api-flex>

- **Adobe**

- Flex developer Center

- <http://www.adobe.com/devnet/flex/>

- Using Flex 4 SDK

- http://help.adobe.com/en_US/Flex/4.0/UsingSDK/index.html