Advanced Development with ArcGIS API for Flex

Lloyd Heberlie, Mansour Raad
About us

• Lloyd Heberlie
  - Product Engineer
  - Esri Flex Team
  - @lheberlie

• Mansour Raad
  - Senior Software Architect
  - Professional Services / Software Development
  - Esri Flex Team
  - @mradd
Agenda

- Apache Flex
- Esri Flex and GitHub
- Heatmap updates
- Mobile Development
- Big Data
- Road Ahead
Apache Flex® SDK 4.9.1 now available!

The open-source framework for building expressive web and mobile applications
Get involved: dev@flex.apache.org
Apache on GitHub

- [http://git.apache.org](http://git.apache.org)
  - [http://git.apache.org/flex-sdk.git](http://git.apache.org/flex-sdk.git)
  - [http://github.com/apache/flex-sdk](http://github.com/apache/flex-sdk)
Esri Flex Team and GitHub
esri.github.com
What’s on GitHub?

• ArcGIS Viewer for Flex
• ArcGIS API for Flex samples
• Quickstart map library
• ArcGIS Viewer for Flex Heatmap Widget and Library
• ArcGIS Viewer for Flex Thematic Widget
• Building Mobile Apps with ArcGIS API for Flex*
Heatmap Repo
Recap

- git clone [https://github.com/Esri/arcgis-viewer-flex.git](https://github.com/Esri/arcgis-viewer-flex.git)
- git clone [https://github.com/Esri/heatmap-widget-flex.git](https://github.com/Esri/heatmap-widget-flex.git)
- cp ./env-template.properties ./env.properties
  - FLEX_HOME, API_HOME, VIEWER_HOME
- ant –p

What do you get?
- Library, doc, widget ready for Application Builder

*How to Git the ArcGIS Viewer for Flex source code from GitHub*
Advanced Samples in the API

- Extend API
Weighted Heatmap
Heatmap recap

- New layer functions
- New theme support
- Supports wrapAround180
What’s New in the API
What’s new

- Geocoder Component
- Directions Component
- OAuth
- AttributeTable Component
- WebTiledLayer
- CSVLayer
- GeoRSS Layer
What’s new?
Mobile Development
Mobile Development

- Lifecycle
- Geolocation
- Local Layer
- AIR Native Extension
Mobile Lifecycle

- Application
  - Activate
  - Deactivate
- View
  - Initialize
  - creationComplete
  - ViewActivate
  - ViewDeActivate
- ArcGIS API for Flex
  - Map load
  - Layer load
Mobile Lifecycle
Geolocation

- `flash.sensors.Geolocation`
- `isSupported`
- `setRequestedUpdateInterval`
- `GeolocationEvent.UPDATE`
Geolocation
Local Layer support

- ArcGISLocalTiledLayer
- Tiled Package Layer (TPK)
- Enable ArcGIS Runtime Tools
Local Layer
ANE (AIR Native Extension)

• Native Device Code
  - Android (Java)
    - {SDK}/lib/android/FlashRuntimeExtensions.jar
  - iOS (Objective – C)
    - {SDK}/include/FlashRuntimeExtensions.h
  - Binary MyANE.ane

• ActionScript code
  - flash.external.ExtensionContext
  - Xml declarations

• Flex Mobile Project
Hello ANE
Big Data
Big Data
Road Ahead
Road Ahead

- Summer release of ArcGIS
- OAuth support
- Support for more ArcGIS online content services
- Offline capabilities
- More mobile optimizations
- GeoEvent streaming
Offering ID: 303
Please complete the survey!