What's New in ArcGIS API for Flex

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Agenda

Working with Data
Geocoding & Directions
Flex Mobile Development
Community & Social Coding
Roadmap
Agenda

**Working with data**
Geocoding & Directions
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Working with Data

• Layer types
  - Four ArcGIS.*MapServiceLayer
  - GraphicsLayer, FeatureLayer, and **CSVLayer**
  - KMLLayer and **GeoRSSLayer**
  - OpenStreetMapLayer and **WebTiledLayer**
  - WMSLayer and WMTSLayer

• Components and Tools
  - **AttributeTable**
  - Editor
    - AttributeInspector, AttachmentInspector, **RelationshipInspector**
    - DrawTool and EditTool

• IdentityManager
AttributeTable component

- Displays a feature layer in datagrid
- Supports export to csv
  - Coordinates exported for point data
- Supports attachments (if layer does)
- Supports related records (if layer does)
Editing with AttributeTable component

- Editing enabled (if layer supports)
- Similar to AttributeInspector
  - Support for domains, date fields etc
  - Throws event for delete, update
WebTiledLayer – new layer class at 3.1

- Set the urlTemplate
CSVLayer – new layer class at 3.1

- Specify URL
- Specify latitude and longitude field names

```xml
<esri:CSVLayer
  latitudeFieldName="GPSLatitude"
  longitudeFieldName="GPSLongitude"
  symbol="{crossPineapple}"
```
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Integrating Rich Data Layers
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Geocoder Component

- Multiple Sources
- Search Map Services (layers and tables)
- Geocoder/Placefinder
  - By default, ArcGIS Online World Geocoder
- Predictive text
- Skinnable
Routing & Directions

- Embeds geocoder for destinations
- Can click on map to add destination
  - reverse geocoding
- Skinnable
- By default: AGOL World Routing Service
Traffic

- Visualize Traffic at any time
- Predictive
- Historic
- Real time & accidents
Demo
Directions App Deconstruction
Agenda

Working with Data
Geocoding & Directions
**Flex Mobile Development**
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Why Flex?

- Consistency
- Productivity
- Tooling
- Expressiveness
UX & Device Integration

- **Sizing your app:**
  - Stage.stageWidth, Stage.stageHeight, Capabilities.screenDPI

- **Orientation**

- **Full screen**

- **Touch input/Gestures**

- **Native extensions** for Adobe AIR, i.e.
  - Network info
  - Push Notifications

- **File Storage**
Sensors

Examples

- **Geolocation**: latitude and longitude, heading, speed
- **Accelerometer**
- **CameraUI and CameraRoll**
- **Gestures**
Adobe Flex SDK & Mobile

- Runtime: Adobe AIR on mobile devices
- Apps are installed on the device
- Spark components and skins optimized for touch input
  - touch-and-throw scrolling
What’s the Scoop?

Debugging

Adobe Flex SDK
ArcGIS API for Flex

Pick a run configuration (simulate or device)

Debug application
What’s the Scoop?
Release Builds

Adobe Flex SDK
ArcGIS API for Flex

Export Release Build

Package for Target Platform

Export Release Build

Target platforms
- Google Android
- Apple iOS
- BlackBerry Tablet OS

Export
- Export to folder: /BasicMap
- Base filename: BasicMap

Export as:
- Signed packages for each target platform
- Signed AIR package for installation on desktop
- Intermediate AIRI package that must be manually signed later

Deploy Application: Depends on Platform
Development with the ArcGIS API for Flex

- **Offline workflows**
  - LocalTileLayer (ArcGISLocalTiledLayer)
  - Tile Packages (TPK)
- **Map Rotation**
- **Sparkifying components & skinning**
  - Geocoder component
- **Mobile Samples**
Demo

Flex Mobile App

Flex API mobile samples
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Forums

- Flex Viewer has a strong, active community forum
Find us on GitHub!

Esri is on GitHub!
We're excited about helping developers build and share software. Browse our open source code and get started with our powerful ArcGIS platform.

BROWSE ON GITHUB

Filter by language or keyword:

quickstart-map-library-flex
ActionScript
Easy mapping for Flex developers - Open Source project demonstrating the powers of the ArcGIS API for Flex

arcgis-viewer-flex
ActionScript
Source code for ArcGIS Viewer for Flex - a great application framework for web applications

map-gallery-template-js
JavaScript
This Public Gallery template is designed for anyone who wants to showcase their ArcGIS Online maps, layers, and mobile apps in a dynamic web gallery.
ArcGIS For Developers (developers.arcgis.com)

• Great place to start!
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Roadmap
GeoEnrichment
Analysis Tools

Summarize Data
- Aggregate Points
- Summarize Nearby
- Summarize Within

Find Locations
Data Enrichment
Analyze Patterns
Use Proximity
Manage Data
More what's coming

- Offline data for mobile
- Security: more OAuth
Questions

http://esriurl.com/survey

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