Getting Started with ArcGIS API for JavaScript

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Agenda

• History
• A Simple App
• Dev Environment
• Layers and Widgets
• 3rd Party Data, Graphics and New Technologies (HTML5)
• Tips and Tricks

#esrijs
History

• First release:

The ArcGIS JavaScript API is now available to the public
by ArcGIS Server Development Team on July 9, 2008

• Six years of active development
• Rapid release cycle
• Evolves to match capabilities of the web
What can you do with the API?

- Interactive maps
- ArcGIS Online basemaps
- Geocoder Widget
- Directions Widget
- ...explore the samples for more
Supported Environments

- Browsers
- Phones
- Tablets
Get the API

- CDN
- Download and host
Getting Help

• **Community** page in the SDK documentation
• Traditional forum
• GIS.StackExchange
• Twitter: API team is on twitter or use #esrijs
Demo
Building Your First App
Web Maps
Demo
Building A Web Map Based App
Choosing a Development Environment

- Web Server
- Tools
- IDEs
How to run code from web server (IIS)

- File Server vs Web Server
- JSFiddle
- Sample Sandbox
CORS

Browser

Remote Server
Code Assist
```javascript
render: function(o, posts) {

    var out = [];
    v = function (s) { out.push(s); } 

    if (o.icon === true) o.icon = 'm'

    // Apply default options to incom
    for (k in this.defaults)
        if (typeof o[k] === 'undefined')
            o[k] = this.defaults[k];

    // Do some HTML escaping to avoid
    o.title = this.htmlEscape(o.title);
    o.user = "firebugnews"
}
```
ArcGIS API for JavaScript

Get Started
Work through a tutorial to build your first web application using the ArcGIS API for JavaScript.

Let's Go

Get Help
Resources ranging from learning JavaScript to places to ask targeted ArcGIS API for JavaScript questions.

Engage

HTML5 and CSS3
Various HTML5 components are integrated in the API and we provide samples for others.

Develop It

Tons of Samples
Dive into a huge collection of samples that demonstrate functionality included with the API.

Explore

Cloud Friendly
Use ArcGIS.com or your own on-premises cloud. The API provides tools to make working with both simple.

Choose

Browser Support
Chrome, Safari, Firefox and Internet Explorer, as well as mobile browsers, just work.

Learn More

Bundled Widgets
Widgets are included to add commonly required functionality to any app and all are accessible with a couple of lines of code.

Re-Use

ArcGIS Integration
Easily use services from ArcGIS Server or ArcGIS.com.

Consume

Any Screen
Phone or a 27” monitor? Mobile targeted samples run everywhere and more responsive design samples are coming.

Respond
Layers

- Tiled Basemaps
  - ArcGIS.com / ArcGIS Server
  - Web Tiled Layer
- Graphics
- Feature Layer
- KML
- GeoRSS
- Dynamic Map Services / Image Services
- WMS / WMTS
Widgets

- Geocoder
- Directions
- Printing
- Identity Manager
- Legend / Scalebar
- Measurement
- Basemap Gallery
- …others: esriurl.com/jswidgets
House Finch, adult male

froyka posted a photo:

Seen at the Rocky Mountain Arsenal National Wildlife Refuge
File API - Working Draft

Method of manipulating file objects in web applications client-side, as well as programmatically selecting them and accessing their data.

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<th>Firefox</th>
<th>Chrome</th>
<th>Safari</th>
<th>Opera</th>
<th>iOS Safari</th>
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Tips and Tricks

- Displaying lots of data – performance considerations
- Getting the map’s center/zoom level
- Sample Sandbox
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http://esriurl.com/survey

Offering ID: 173