



Introduction to ArcGIS API for JavaScript

**Jeremy Bartley
Kelly Hutchins**

Overview

- What can you do with the JavaScript APIs
- Review of the ArcGIS Server REST API
- Why JavaScript?
- Working with the ArcGIS JavaScript API
- Getting started building apps

What can you do with the JavaScript API?

- Integrate maps and services into existing web pages



- Display interactive map



- Display your data on an ArcGIS Online base map



- Execute a task and display the results



Example data provided for 2010 and 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 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Search Distance .5 mile



Current Location

Latitude: 32.7082

Longitude: -117.1651

Location accurate within 42 meters

Last Updated: Tue Jul 12 2011 21:54:08 GMT-0700 (Pacific Daylight Time)



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King County Road closures and conditions

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November 20, 2009, King County Road Closure Update

Released: Nov 20 2009 5:02PM

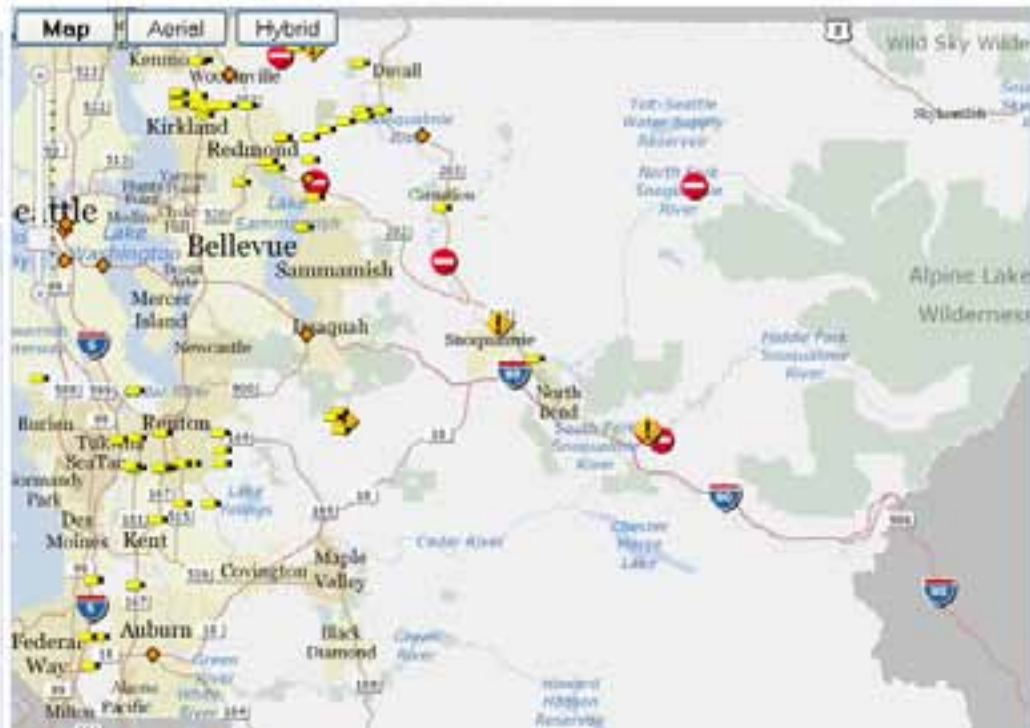
As of 5:00 P.M., November 20, 2009, King County Road Services reports the following road closure updates. This alert will be updated as conditions change.

Status	Location
Closed	NE 165th St between 179th Pl NE and 183rd Pl NE
Closed	Neal Rd SE (north end) 200' from intersection at SR 203
Restricted	NE Woodinville-Duvall Rd at Mink Rd NE
Closed	NE 50th St between Sahalee Way NE and SR 203

Address or intersection

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<http://gismaps.kingcounty.gov/roadalert/>

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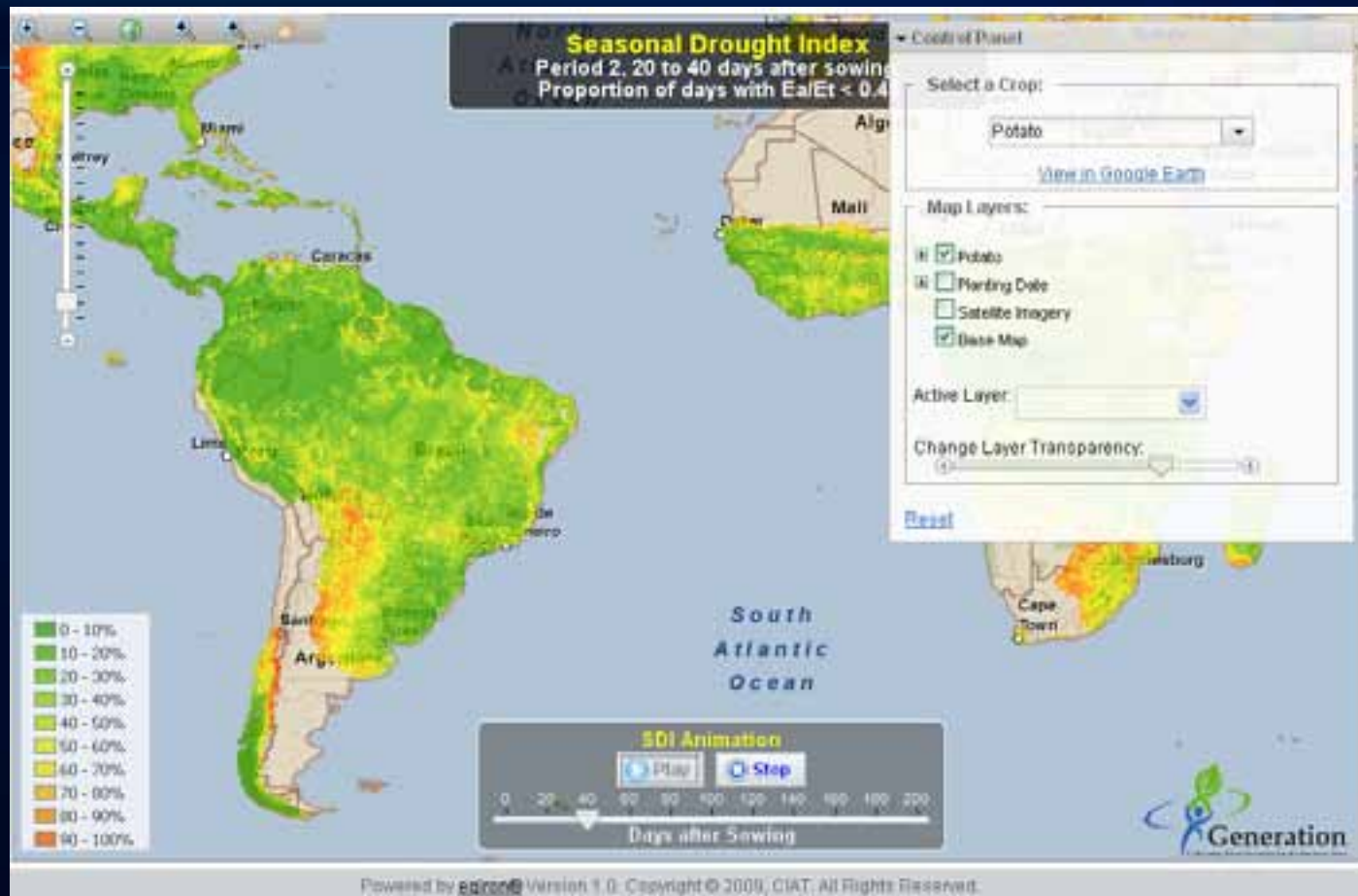
Zoom to Town Zoom to Village Postcode X: 266826.408 Y: 266760.90

Map Aerial Labels OS Map

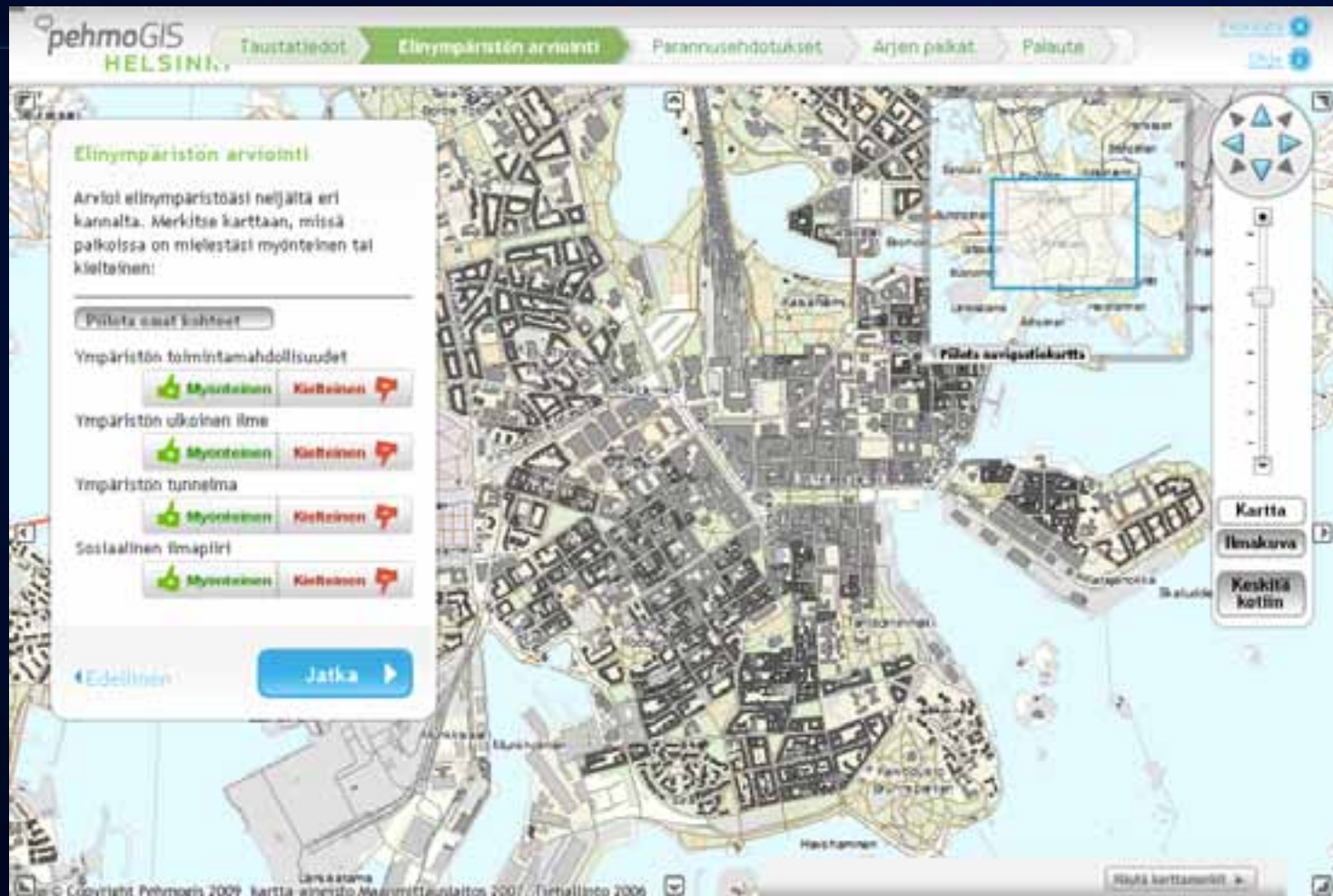
Education:

- ☐ Nursery Schools
- ☐ Primary Schools
- ☐ Middle Schools
- ☐ High Schools
- ☐ Special Schools
- ☐ Public Libraries

<http://gis.worcestershire.gov.uk/wccgisonline/maps.aspx>



<http://www.generationcp.org/sdi/>



<http://pehmogis.hut.fi/pehmogis/fi/helsinki.html>



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Product Search
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Economic Stimulus Act
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Small Tractor Needs Analyzer

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Your address will help us identify your closest John Deere dealers. Currently available for U.S. addresses only.

* Indicates required field

Street Address:

City

State

ZIP

Search Map



Select Primary Task

Loading

Tilling

Mowing

Cutting

Baling

How high will the material be lifted:

4 feet (pickup truck height)

7 feet (dump truck height)

8.5 feet (large dump truck or feed wagon)

11 feet (large dump truck, grinder/mixer, semi trailer)

How fast do you want to load 12 cubic yards (an average dump truck load) of material?

Select Secondary Task

Loading

Tilling

Mowing

Cutting

Baling

None

Select your tilling rate per acre:

under 20 minutes per acre

25 minutes per acre

30 minutes per acre

35 minutes per acre

40 minutes per acre

45 minutes per acre

Best Match



3320

The 3320 offers a high-quality, cost-efficient, and productive tractor. It has a 32.8 hp, 3-

<http://productselector.deere.com/CustomerTool/NACutsHomeServlet>

gap

Select a zone or state to zoom to a region.

NHLC Zone:

State:

Select a level of land cover detail: Level 1

VIEW

RESET

How to Search Land Cover Data

To create a specific region, use the dropdown lists above to select a NHLC (National Resolution Land Characteristic) Zone, or a State to zoom into for that area. If you choose a State you will be given the option to select a County from another dropdown list.

Legend Display

To view the legend, click on the Legend button. Land cover data is displayed in three levels of detail.

Level 1 contains 9 classes, and generalizes to the level of vegetative physiognomy.

Level 2 contains 40 classes, and incorporates information on elevation and climate.

Level 3 contains the full 250 classifications.

Navigate Map

Zoom: Hold down the left mouse button and move the map.

Zoom in: Double-click on the map, or use the mouse wheel, or use the interactive zoom input tool at the bottom of the map.

Zoom out: Use the mouse wheel, or use the interactive zoom input tool at the bottom of the map.

Identify: Hover the mouse over the map and wait a few seconds to view the land cover classification.

VIEW DATA

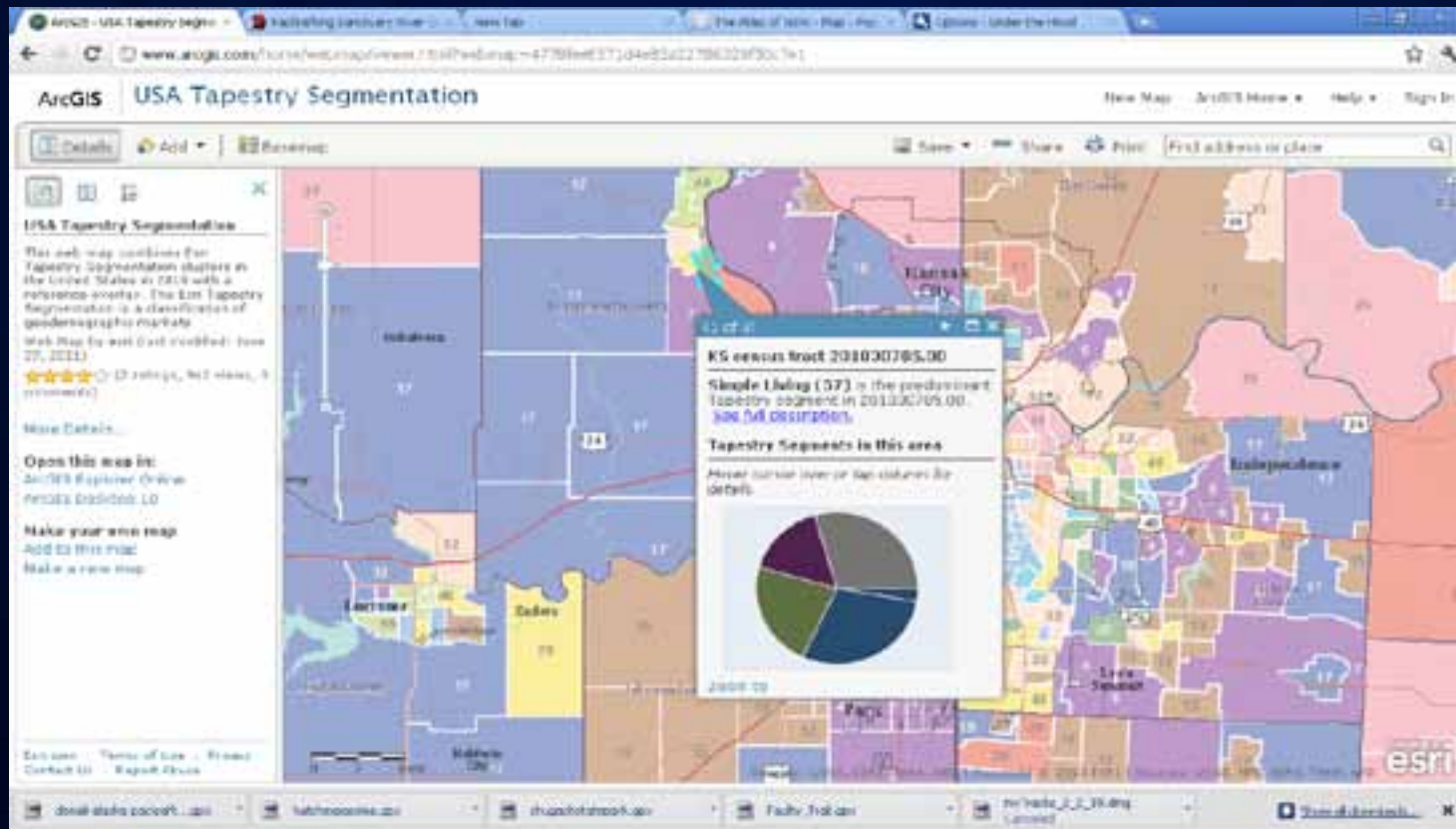
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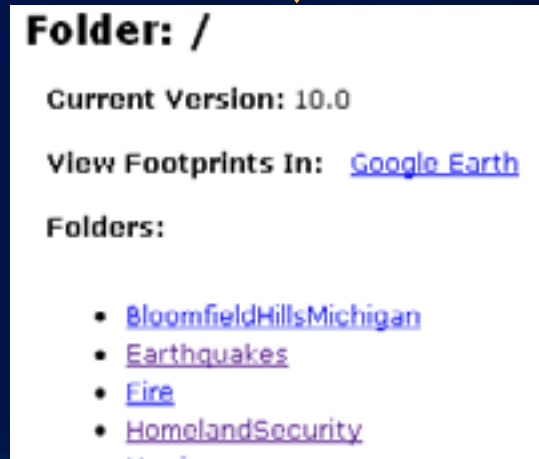
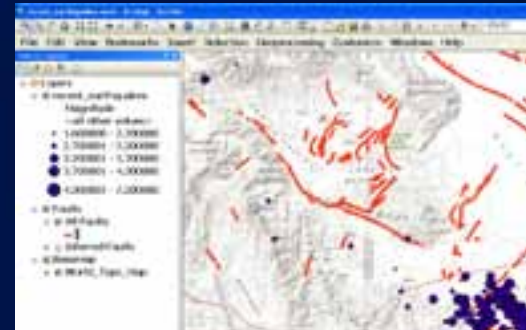
<http://www.gap.uidaho.edu/landcoverviewer.html>

ArcGIS.com



How do you go from your data to a Mashup?

- Author GIS resource using desktop
- Publish GIS resources to create GIS Services.
 - Each capability is exposed to consumers as an independent GIS Web Service accessible over HTTP
- Use JSAPI to build rich client applications that consume GIS resource



ArcGIS Server REST API

Discoverable, accessible, and useable

- New at 9.3, greatly enhanced at 10
- Simple view of ArcGIS Server
- ArcGIS Server hosts a Services Directory
 - Used by developer while building application
- Powers Web APIs



ArcGIS Server REST API

- All GIS Services are exposed as resources
 - Service level metadata
- Some resources have operations
 - Map Service (export, find, identify)
 - Map Service Layers (query)
 - Image Services (export)
 - Geocode Service (findAddressCandidates, Reverse Geocode)
 - Geoprocessing (execute, submit job)
 - Network Analyst (solve route)
 - Geometry Service (project, buffer, and others)

ArcGIS JavaScript APIs – Why JavaScript?

- JavaScript is one of the most used programming languages in the world.
- Applications run in browser
 - Desktop and Mobile (iOS, Android, ...)
- JS Frameworks abstract away the browser complexity
 - YUI, Dojo, EXTJS, jQuery
- Accessible programming language
- IDE's are getting better. Aptana, Notepad ++, Visual Studio
- Multiple development patterns supported

Race for the fastest browser – HTML5

- JavaScript Engine
 - Just in time compilation to byte code
 - Faster property access
 - Efficient garbage collection
- Graphics engine improvements
- DOM improvements
- CSS3





Simple Marker Symbol	IE8	IE9	IE10 Test 1	IE10 Test 2	Chrome 11.0	Firefox 4.0.1	Safari 5.05
Query Time	1031	377	421	76	478	555	547
Draw Time	1140	201	199	199	148	163	76
Clear Time	141	29	28	29	9	46	75
Pan Time	4538	702	542	549	474	518	508

*IE9 – tested with document mode in IE9 standards

*IE10 (Test 1) – tested with document mode in IE9 standards

*IE10 (Test 2) – tested with document mode in IE10 standards

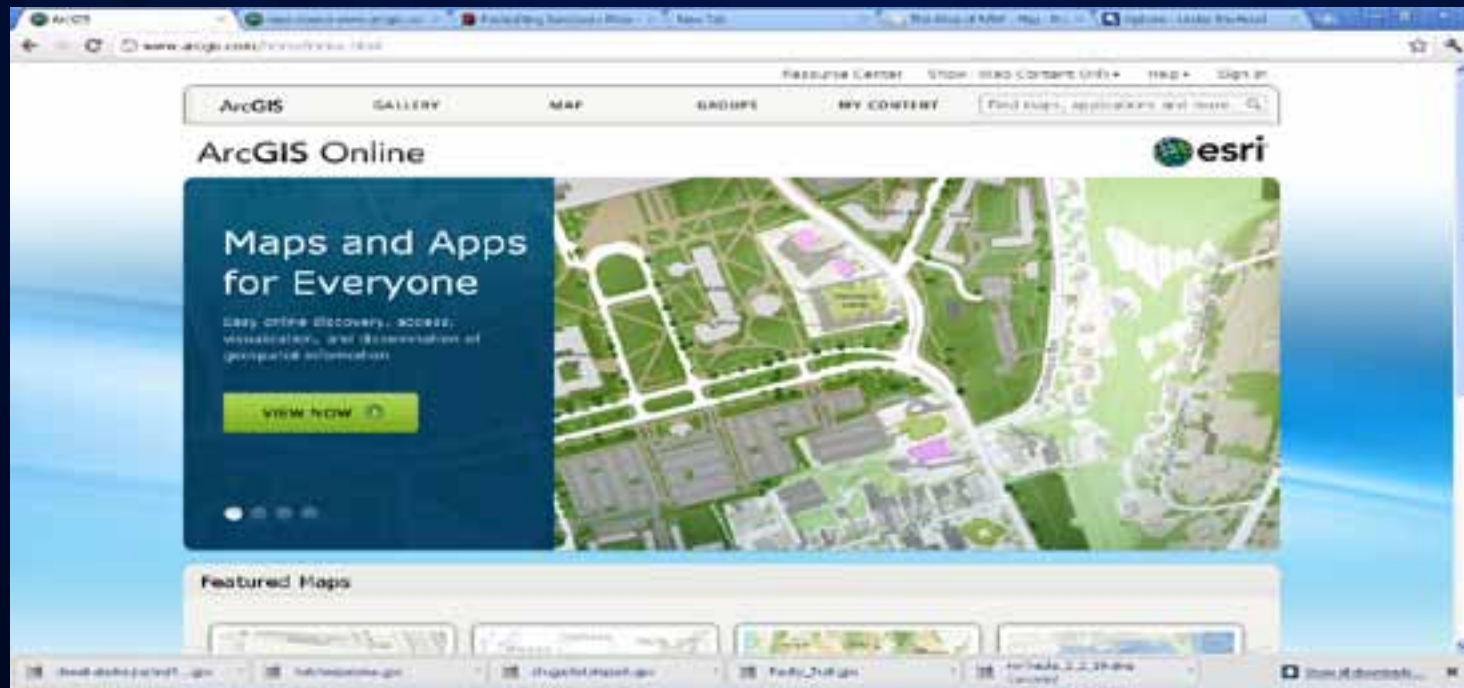
ARCGIS JAVASCRIPT API

ArcGIS JavaScript API

- Embed maps and tasks from any ArcGIS Server into your website
- Use basemaps provided by ESRI or use your own basemap with your geospatial data
- Map can be in any supported projection
- Built on top of Dojo JavaScript toolkit.



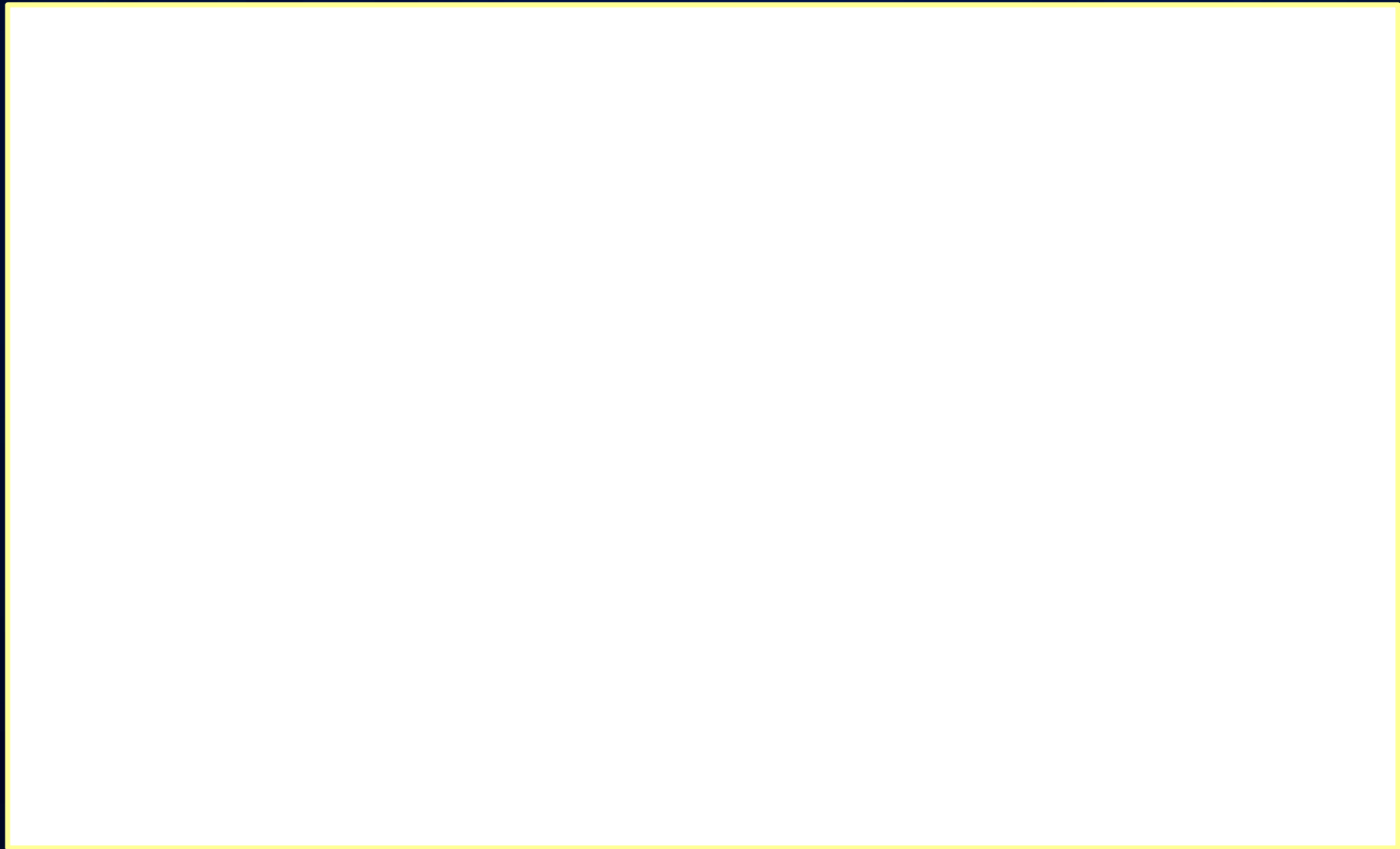
Integrating Dojo Dijits into your application



Rotator Widget



Configure Panels

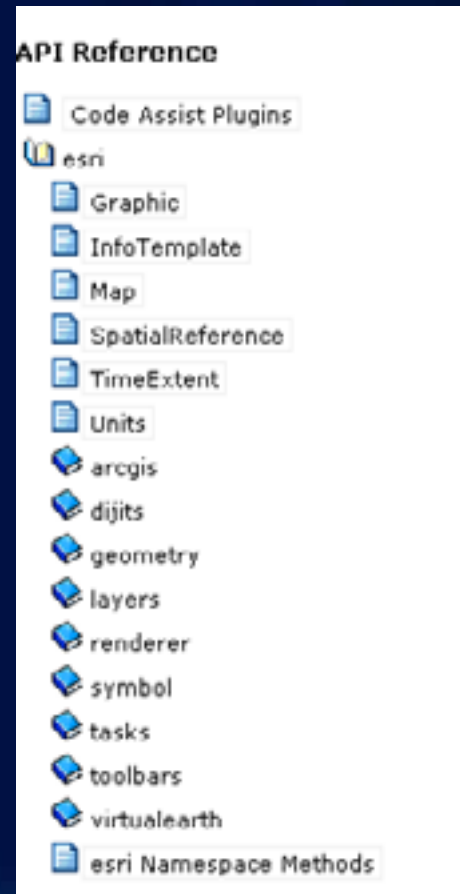


ArcGIS JavaScript API Status

- **Fast development cycle**
 - Initial Release May 2008
 - Current Version 2.4—released July 8rd, 2011
- **2.4 works with ArcGIS Server 10 and 9.3 (also works with 10.1 beta)**
- **When going from one version to the next we try not to break compatibility**
- **Older versions are set in stone and will not change**
 - 1.0 through 2.4

What is in the JavaScript API?

- Map control
- Widgets (Dijits)
 - Overview, Editor, Template Picker, Attribute Inspector, Time Slider, Measurement
- Layers
 - Tiled, Dynamic, FeatureLayer, WMS, WMTS, KML, Graphics
- Graphics
- Tasks
 - GP, Network, Geometry, Query, Locator
- Geometry
- Symbolology
 - ArcGIS Server Symbolology
- Toolbars
 - Edit, Draw, Navigation

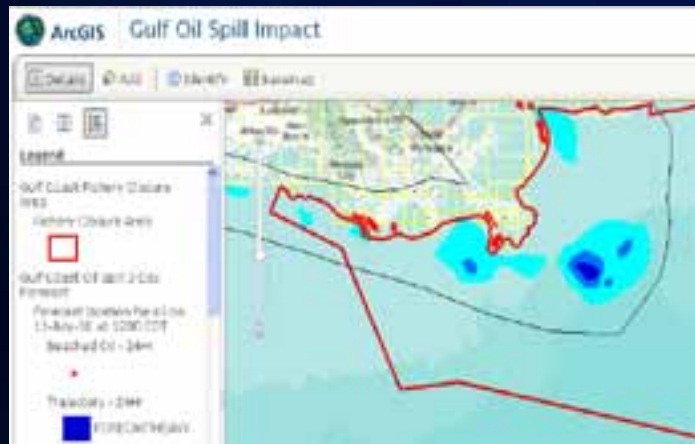


Tour of API through SDK...

Let's build some apps...

ArcGIS.com

- **ArcGIS.com is an easy way to author maps for the web**
- **JSAPI can read ArcGIS Web Maps**
- **Build applications quickly by consuming ArcGIS Web Maps**



ArcGIS JavaScript API – What do you need to know?

- Online SDK -- <http://links.esri.com/javascript>
 - Sample driven
 - Code gallery
 - Samples powered by an ArcGIS Server sample server
 - <http://sampleserver1.arcgisonline.com/arcgis/rest/services> (9.3.1)
 - <http://sampleserver2.arcgisonline.com/arcgis/rest/services> (9.3.1)
 - <http://sampleserver3.arcgisonline.com/arcgis/rest/services> (10.0)
 - <http://sampleserver4.arcgisonline.com/arcgis/rest/services> (10.0)
 - <http://sampleserver5.arcgisonline.com/arcgis/rest/services> (10.0)
- JavaScript hosted by ESRI
 - <http://serverapi.arcgisonline.com/jsapi/arcgis/?v=2.4> and <http://serverapi.arcgisonline.com/jsapi/arcgis/?v=2.4compact>
 - Flexible release cycle
 - Hosted by ArcGIS Online -- 24/7

