



Esri Petroleum GIS Conference

April 30–May 2, 2012 | Houston, Texas | esri.com/pug

ArcGIS Web Map Interfaces

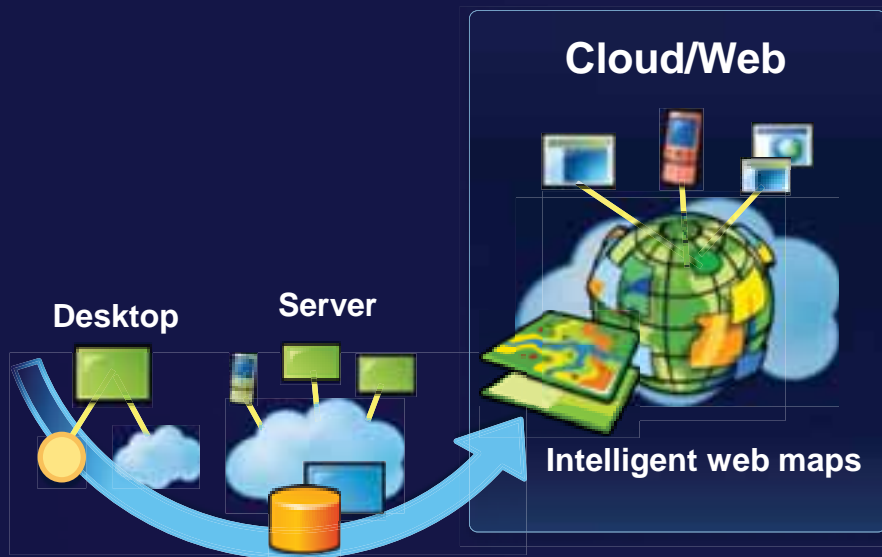
Derek Law
Product Management



Agenda

- **ArcGIS Online Web Maps**
- **ArcGIS for Server/Web Map clients**
 - **ArcGIS Online application templates**
 - **ArcGIS Viewer for Flex**
 - **ArcGIS Viewer for Silverlight**
 - **ArcGIS for SharePoint**

ArcGIS Online is a New GIS Pattern



What is ArcGIS Online?

- **Part of the ArcGIS system**
- **Working with maps & geographic information**
 - **Create**
 - **Share**
 - **Manage**
 - **Analyze**
 - **Visualize**
- **Organize authoritative content**
- **Simple, useful maps & info for organizations**



What is a web map?

The foundation for your maps and applications

Intelligent Maps



**Services
And Data**

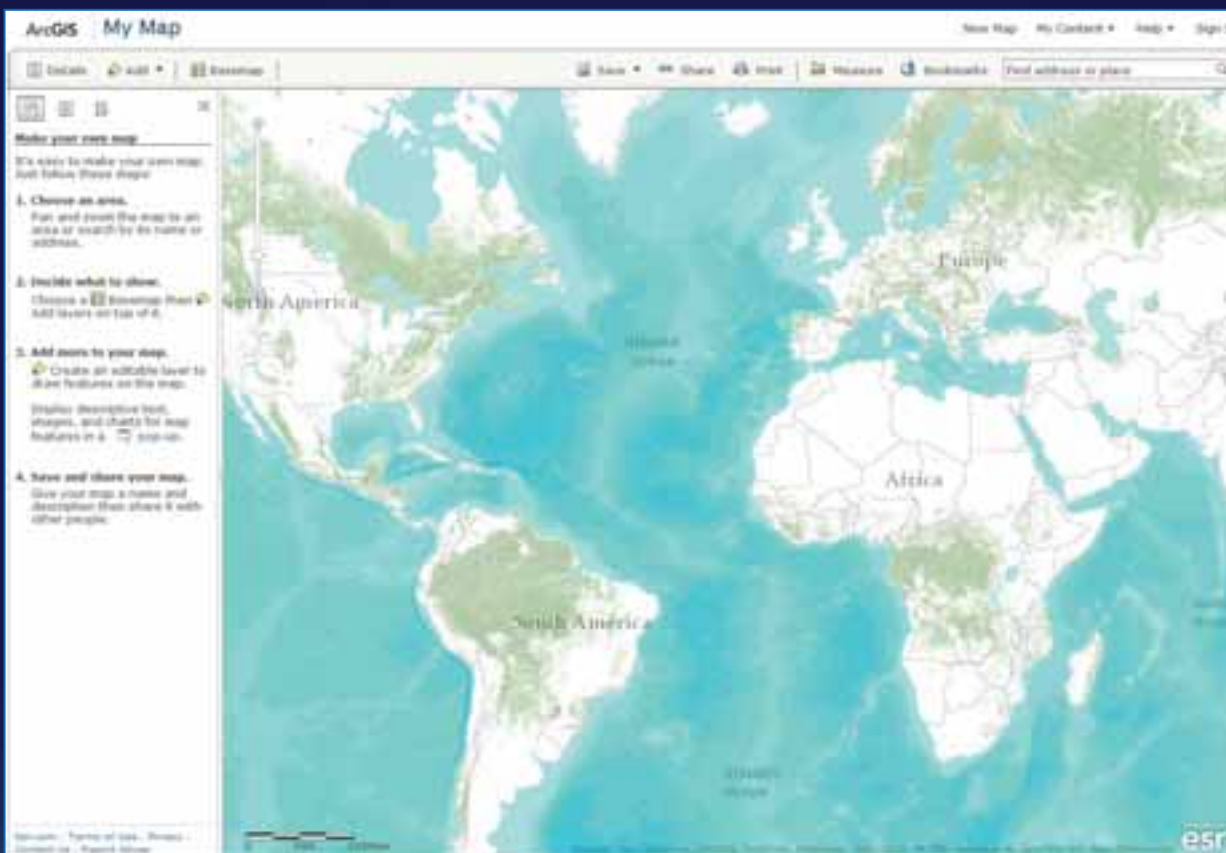


Supporting

- Visualization
- Editing
- Popups
- Analysis
- Time

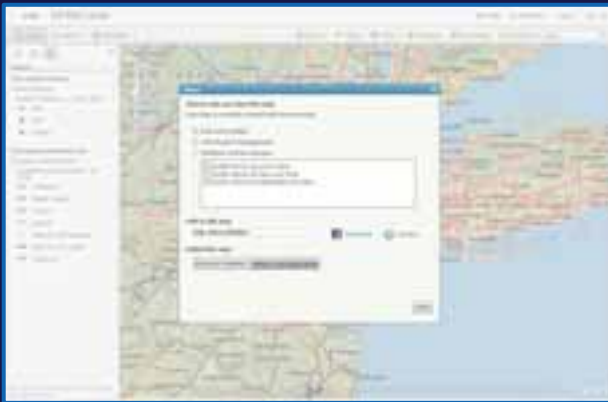
ArcGIS.com Map Viewer

- Create mash-ups and author Web maps



ArcGIS Online application templates

- Leverage from ArcGIS.com Map Viewer
- Create Web Map → Share → application template





Demo:
ArcGIS Online application templates

ArcGIS Viewer for Flex



- Configurable *ready-to-deploy* Web client
 - Built with the **ArcGIS API for Flex**
 - **Hosted on-premise**
- **Easily and quickly** build and implement GIS Web mapping applications



- **No programming required**, designed with the “non-developer” in mind

ArcGIS Viewer for Flex – User Interface

Title
Subtitle
Logo

Widget tray

Map
Switcher
widget



Navigation
widget

Scalebar

ArcGIS Viewer for Flex – User Interface

“Open” widget (from Widget tray)



Working with the ArcGIS Viewer for Flex

“Ready-to-deploy” Web client

- **ESRI solution for creating GIS Web clients effortlessly**
 - Works with ArcGIS Server and ArcGIS Online services
- **Configuration** enables changes to
 - **Appearance**
 - **Functionality (via widgets)**
 - **Data content**
- **Widgets** → modular functionality
 - **Consist of**
 - XML configuration file
 - Compiled Flash (.swf) file



ArcGIS Viewer for Flex functionality

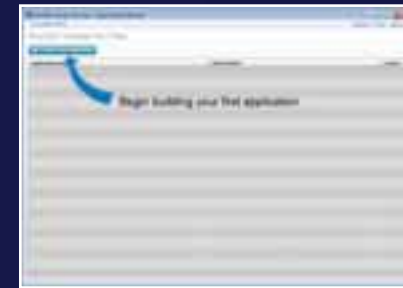


Based on widgets

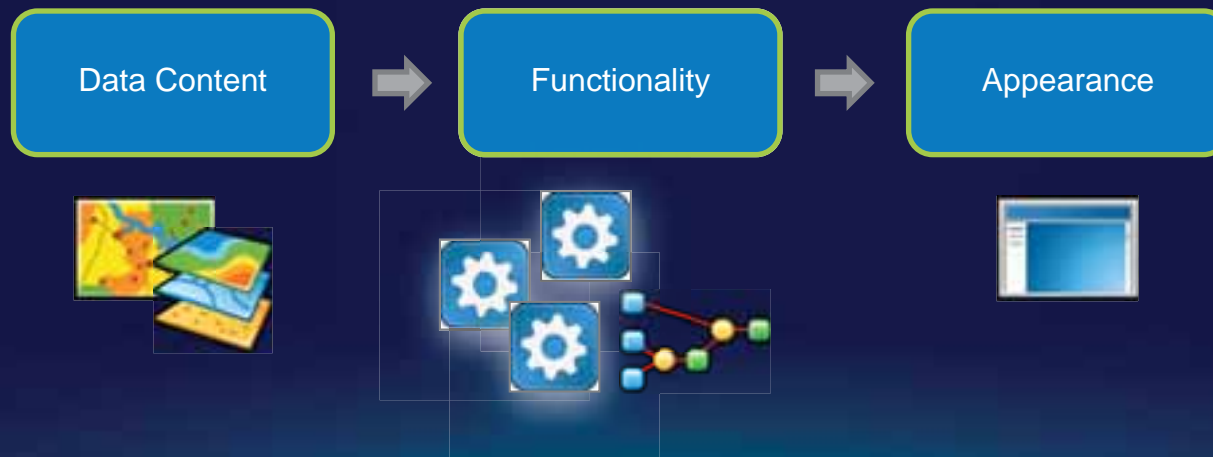
- Viewer application functionality defined by widgets
- **21 core widgets** included
- **Each widget is configurable**
 - No programming required
- Use a select group of widgets to create custom Web clients that address specific business workflows
 - Build focused Web mapping applications
- “Lego-like” approach to client development

Application Builder

- Provides GUI user experience to configure and deploy the Viewer
- Built on Adobe Air technology



Interactively configure:



Application Builder UI

5 control tabs

- Maps tab
 - Specify data content



ArcGIS.com
Web Maps

or



Basemaps &
Operational Layers

Application Builder UI

Define functionality and “look and feel”



Non-linear
workflow



Widgets tab



Layout tab



Design tab



Preview tab



Demo:
ArcGIS Viewer for Flex
application builder

ArcGIS Viewer for Flex – Resource Center

<http://links.esri.com/flexviewer>

- Download the Viewer application
- Help documentation, widget and configuration samples, and support forum



The screenshot shows the ArcGIS Viewer for Flex resource center page. The page features a green header with the product name and navigation links. Below the header, there is a main content area with a title "ArcGIS Viewer for Flex" and a sub-header "December 2, 2011 - version 2.5 released". The main content area includes a paragraph of text, a bulleted list of features, and two screenshots of the application. The first screenshot is labeled "Default configuration" and shows a map with a search bar and a list of results. The second screenshot is labeled "Customizing widget example" and shows a map with a custom widget displaying a 3D terrain model. On the right side of the page, there is a "Quick links" section with several links: "Download Viewer", "Download source code for Viewer for Flex developers", "Video: Quick Start", "Video: Flex Viewer Seminar", "Video Gallery", "Blog", and "The API".

ArcGIS Viewer for Flex

December 2, 2011 - version 2.5 released

Read about [What's new in version 2.5](#) - application builder, Chart widget, enhancements, bug fixes and much more.

The ArcGIS Viewer for Flex is a ready-to-deploy viewer application. It is configurable, so you can easily add tools and data content without programming. You can also extend its functionality with custom widgets available from the Esri community, or create custom widgets yourself with the ArcGIS API for Flex. The ArcGIS Viewer for Flex is ideal if you want more control over the look and feel of your application. It is also a good solution if you want to test your own Web mapping applications.

- Ready to deploy GIS Web client mapping application for ArcGIS Server built with ArcGIS API for Flex version 2.5.
- Easily configurable to meet custom business needs and requirements - no programming skills required to deploy.
- Viewer functionality is defined by [widgets](#) - many core widgets are included.
- New functionality can be created by [developing custom widgets](#) using the ArcGIS API for Flex.

To download the application, follow the instructions at "[Download Flex Viewer](#)".

Default configuration

Customizing widget example

Quick links

- [Download Viewer](#)
- compiled and ready to go.
- [Download source code for Viewer for Flex developers](#)
- [Video: Quick Start](#)
- 15 minute video
- [Video: Flex Viewer Seminar](#)
- recorded 1 hour training seminar
- [Video Gallery](#)
- conferences presentations etc.
- [Creating a Custom Widget](#)
- [Blog](#)
- announcements, special topics, tips and tricks.
- [The API](#)
- ArcGIS API for Flex

ArcGIS Viewer for Silverlight



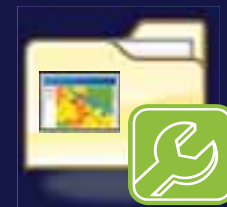
- Configurable *ready-to-deploy* Web client
 - Built with ArcGIS API for Silverlight
- **Easily and quickly** create and implement GIS Web mapping applications



- Complete set of core GIS tools and functionality
- **No programming or editing configuration files**
 - Ideal for novice Web application creators

ArcGIS Viewer for Silverlight overview

- **Web browser-based application**
 - Hosted on-premise
- **Consists of 3 components:**
 1. **Configurable Viewer**
 2. **Application Builder**
 3. **Extensibility Kit**
- **32-bit and 64-bit OS versions available**
- **Localized versions available:**
 - Arabic, Chinese (Simplified), English, French, German, Italian, Japanese, Portuguese (Brazilian), Russian, and Spanish



Working with Application Builder

- Create new Web mapping application based on:
 1. **New map** (from scratch)
 2. **Existing Web Map** (from ArcGIS.com)
 - ArcGIS.com login supported

- **Configure**
 - Data content
 - Functionality
 - Look and feel



Application Builder User Interface

WYSIWYG user experience



Application Builder workflow

- Interactively create Web apps → **WYSIWYG** experience
 - Map content
 - Tools
 - Look and feel

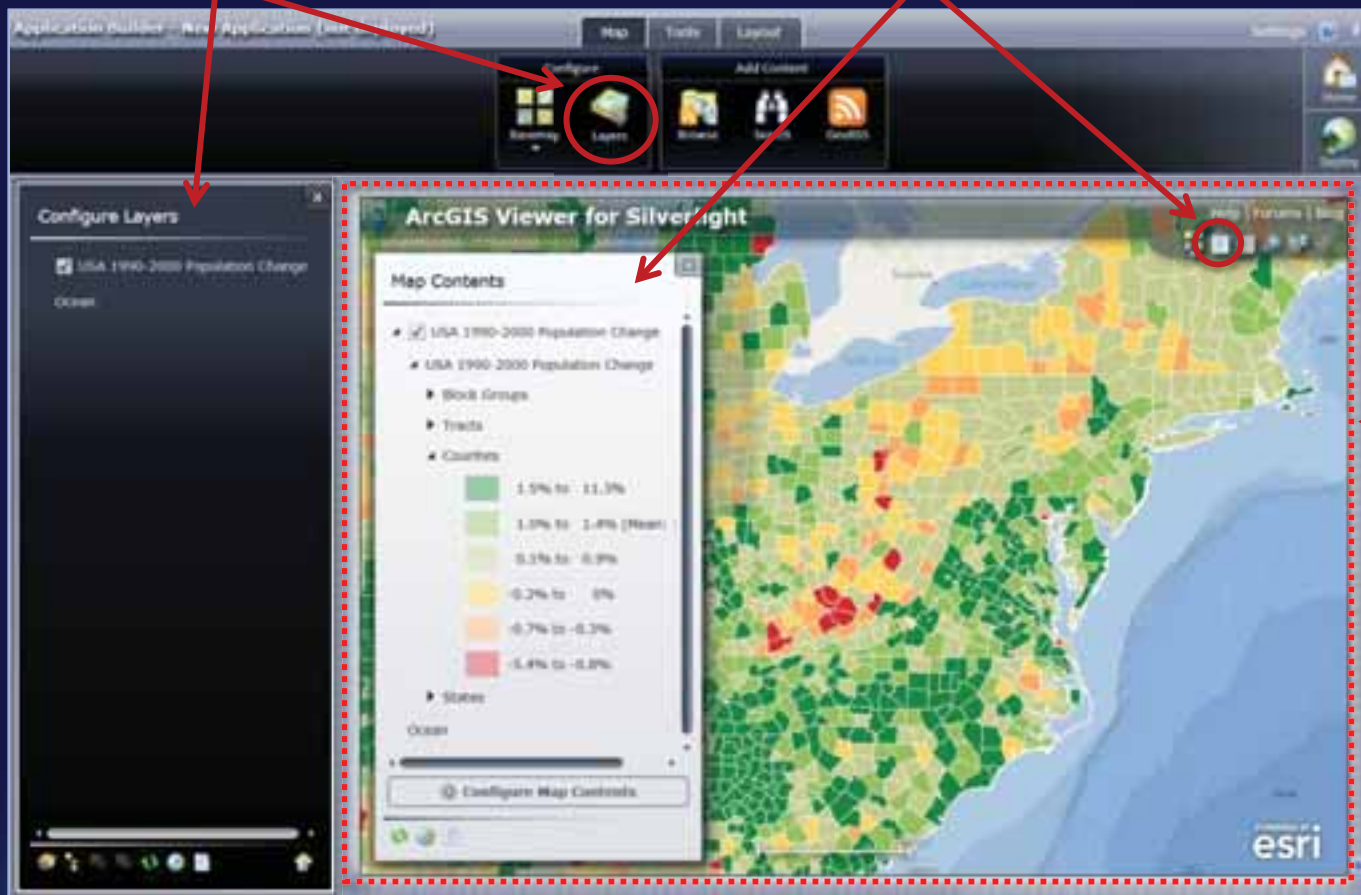


- Deploy configured Viewer applications

Application Builder contains Web App

App Builder
layer management

Web App
table of contents



Web App
preview



Demo:
ArcGIS Viewer for Silverlight
application builder

ArcGIS Viewer for Silverlight – Resource Center

<http://links.esri.com/silverlightviewer>

- Download the application and extensibility kit
- Help documentation, samples, and support forum



The screenshot shows the ArcGIS Resource Center page for ArcGIS Viewer for Silverlight. The page has a green header with the ArcGIS logo and the text "ArcGIS Resource Center". Below the header, there is a search bar and a navigation menu with links for "Home", "Downloads", "Samples", "API Reference", "Support", and "Contact Us". The main content area is titled "ArcGIS Viewer for Silverlight" and includes a "Download" button. The page also features a "Getting started" section with a link to "What's new" and a "Blog" section. A "Features" section lists the capabilities of the viewer, such as using ArcGIS Online, Bing Maps, or ArcGIS Server map services as basemaps, adding data from ArcGIS Server and ArcGIS Online, performing map navigation, and printing maps. A "Get Support" button is located in the bottom left corner of the content area.

ArcGIS Resource Center

ArcGIS Viewer for Silverlight

Download

Getting started

Blog

Features

Use Training

Summary (video)

ArcGIS API for Silverlight

Docs

[Get Support](#)

ArcGIS Viewer for Silverlight

ArcGIS Viewer for Silverlight 1.0.1 Released March 2012. See [What's new](#) for more details.

The ArcGIS Viewer for Silverlight 1.0.1 allows you to quickly create rich web mapping applications using a fully interactive configuration experience. You can set up and modify an application's desktop, operational layers, tools, colors, title, logo, layout, links, and more without writing any code or editing any configuration files. Moreover, the viewer is fully extensible, so designers and developers can implement new tools and create new layouts and easily integrate them into the Viewer.

With the ArcGIS viewer for Silverlight, you can:

- Use ArcGIS Online, Bing Maps, or ArcGIS Server map services as basemaps
- Add data from ArcGIS Server and ArcGIS Online on top of your basemap
- Open maps from ArcGIS.com
- Perform map navigation
- Find addresses and place names (through ArcGIS Server or ArcGIS Online services)
- Run GIS analyses (via Geoprocessing services)
- Edit features of feature layers that have editing enabled
- View tabular data for datasets within the map
- Zoom to layers and selected features
- Print using pre-supplied layouts

To use the ArcGIS Viewer for Silverlight, [download](#) and install the ArcGIS viewer for Silverlight and start creating your applications using the Application Builder. To get started developing add-ins for the Viewer, download and install the ArcGIS Extensibility SDK for Silverlight and get started by writing tools and behaviors with Visual Studio 2010, or layouts with Expression Blend 4.

Background: Microsoft SharePoint 2010

Business collaboration platform for the Enterprise and the Web

- **Multipurpose Web application platform**
 - Web content management
 - Documents and records management
 - Forms and workflows
 - Search
- **Connects and empowers users**
- **Provides unified structure**
- **Adapts to business needs**

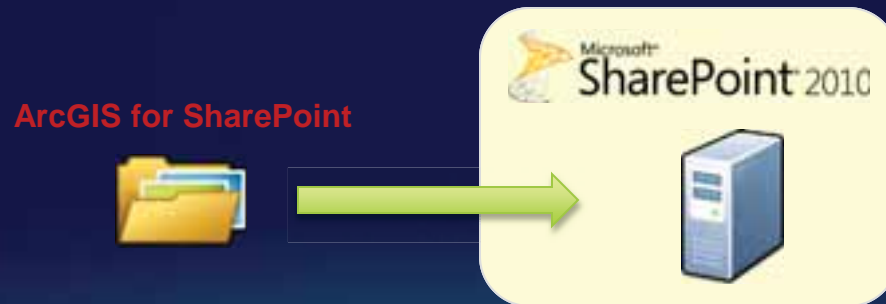


ArcGIS for SharePoint

New product name: Esri Maps for SharePoint



- Configurable *ready-to-deploy* Web client
 - Built with ArcGIS API for Silverlight
- Enables GIS and mapping functionality in SharePoint
- Ideal for users familiar with SharePoint
 - Configuration user experience
- Install on SharePoint instance



Leveraging ArcGIS for SharePoint



- **Visualize SharePoint data in geospatial context**
 - GIS and interactive mapping functionality
 - Display SharePoint data with services from ArcGIS Server and ArcGIS Online
- **Can be integrated as part of a larger IT solution**
 - Collaborate and share with others
- **Promote GIS within your organization**
 - Other Departments may not use GIS, but use SharePoint
 - Sell the “value” of GIS

ArcGIS for SharePoint overview

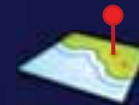
- **Web browser-based application**
 - Hosted on SharePoint instance
- **Complete set of core GIS tools and functionality**
- **Consists of 3 components:**



Map Web Part



**Geocoding
workflow**



Location field

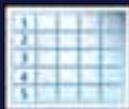
- **Integrate data from**
 - ArcGIS Server and ArcGIS Online
 - SharePoint lists and libraries

Geocoding workflow



Spatially enable your SharePoint data

- **Geocode addresses in SharePoint lists or libraries**
 - Workflow can be automatically applied when item is added or changed
- **Based on SharePoint workflow**
 - Familiar UE for SharePoint users
- **Interactive candidate match**
- **Locators are configurable**

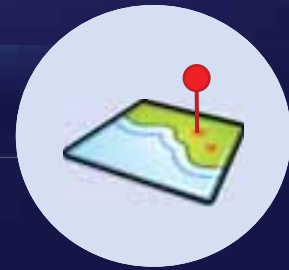


SharePoint data

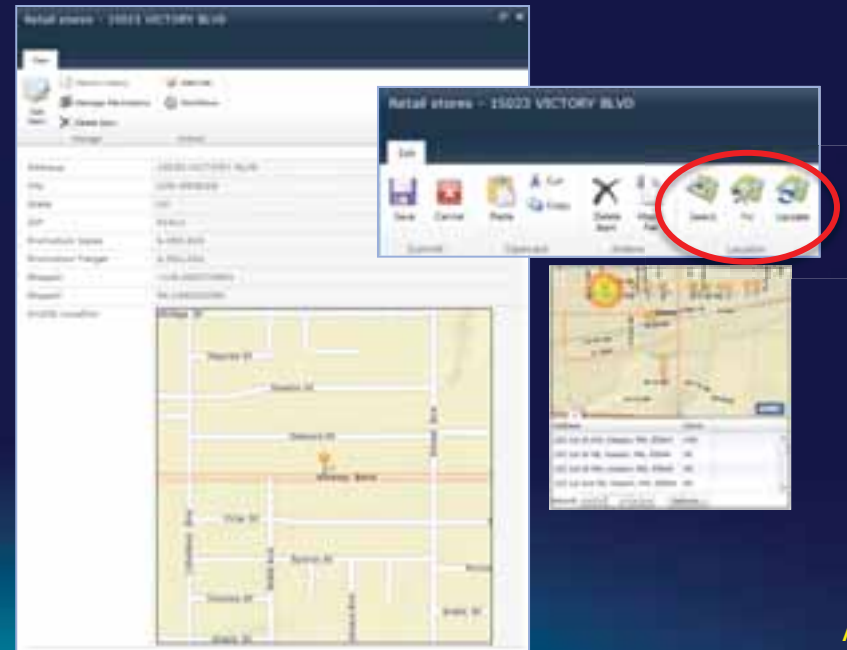


Point layer

Location field



- **Custom data type available to SharePoint**
 - Added when a geocoding workflow is applied to SharePoint data
- **Stores geographic location of associated SharePoint spatial data**
 - Displays on basemap
- **Geographic location can be edited**





Demo: ArcGIS for SharePoint

ArcGIS for SharePoint – Resource Center

<http://links.esri.com/sharepoint>

- Download the application and extensibility kit
- Help documentation, samples, and support forum



The screenshot shows the ArcGIS Resource Center website for ArcGIS for SharePoint. The page features a navigation menu with links for Home, Downloads, Features, All Information, Forums, and Code Gallery. The main content area is titled "ArcGIS for SharePoint" and includes a "Download" section. A sidebar on the left contains links for "Getting started", "Blog", "Forums", "ArcGIS API for Silverlight", and "Ideas", along with a "Get Support" button. The main text describes the product components: ArcGIS Map Web Part, ArcGIS Location Field, and ArcGIS Geocoding Workflow. It also provides a detailed description of the Map Web Part and Location Field. An illustration of a tablet with a map and a yellow arrow points to a "Download Now" button.

ArcGIS Resource Center

ArcGIS for SharePoint

Home Downloads Features All Information Forums Code Gallery

ArcGIS for SharePoint

Download

Getting started **Version 2.1.1 released January 2012. See [What's new in 2.1.1](#) for more details.**

Blog

Forums

ArcGIS API for Silverlight

Ideas

[Get Support](#)

ArcGIS for SharePoint™ provides configurable mapping components for use with Microsoft SharePoint sites.

The product contains the following components:

- ArcGIS Map Web Part
- ArcGIS Location Field
- ArcGIS Geocoding Workflow

The Map Web Part can be used to display geographic data stored in ArcGIS Server map services, Spatial Data Service tables, and SharePoint lists on ArcGIS Online, ArcGIS Server, or Bing Maps basemaps. You can also configure the Map Web Part's functionality, leveraging ArcGIS Server geoprocessing services or tools implemented using the Map Web Part's Extensibility framework and the ArcGIS API for Silverlight. The Geocoding Workflow allows you to spatially enable your SharePoint data so that it can be shown on a map. The Location Field allows you to easily visualize and manipulate the location of items in a SharePoint list.

[Download Now](#)

Summary

- **ArcGIS Online Web Maps**
- **ArcGIS for Server/Web Map clients**
 - **ArcGIS Online application templates**
 - **ArcGIS Viewer for Flex**
 - **ArcGIS Viewer for Silverlight**
 - **ArcGIS for SharePoint**



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