

# Esri Developer Summit

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## Building Large JavaScript Applications – A case study on ArcGIS.com

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# ArcGIS Online



## Your Maps, Your Way

Create, store, and manage your own maps, apps, and data with a personal ArcGIS Online account.

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## Featured Maps



## **It all starts with a team...**

- **Developers**
- **Designers**
- **Testers**

**Kevin, Adelheid, Praveen, Blake, Michael, Mike,  
Ganesh, Jeremy, Jian, Kelly, Derek, Heather,  
Michelle, Kuldeep, Sud**

## Foundation built on the JavaScript API

- **As new features go into the JavaScript API they are exposed directly to the user**
- **Consolidated code base**
  - **No need to reinvent the wheel**
  - **Changes in ArcGIS.com benefit every JSAPI user**

# Architecture

- Works with RESTful ArcGIS Portal API
- Stateless
- Pure JavaScript and HTML
  - Search engine optimization -- link
- Rely heavily on existing widgets
  - Localizable, Accessible

# Change is good

- **UI Should get Simpler**
  - Challenging as you add more functionality
- **Implementation should get Simpler**
  - Don't be afraid to throw away old code





Sign In

Search

### North American Geology

Find on map:  Address, city or place

Contents Identity

Save Link Print

Topo Globe Imagery Basemap





Details Add Basemap

Save Share Print Measure Bookmarks Find address or place



### Abu Dhabi

Satellite and high-resolution aerial imagery for the world with political boundaries, roads, and labels for places and roads.

Web Map by CharlieBartley  
Last Modified: March 26, 2012  
(0 ratings, 0 comments, 3 views)

[More Details...](#)

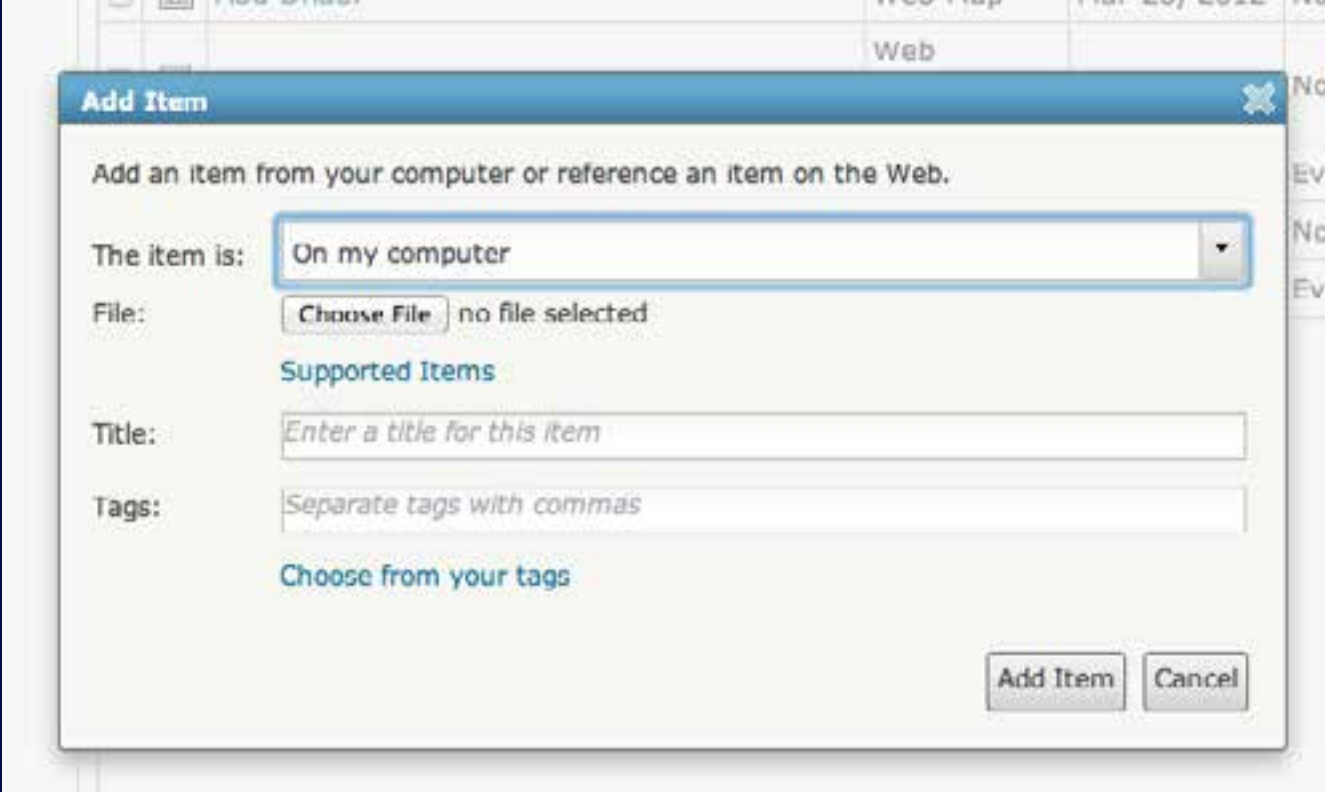
Open this map in:  
[ArcGIS Explorer Online](#)

Make your own map  
[Add to this map](#)  
[Make a new map](#)





# Change is good...



The image shows a screenshot of a software application with a dialog box titled "Add Item". The dialog box has a blue header bar with a close button (X) in the top right corner. Below the header, the text reads "Add an item from your computer or reference an item on the Web." There are two main sections: "The item is:" and "Supported Items".

**The item is:** A dropdown menu is open, showing "On my computer" as the selected option. Below this, there is a "File:" label and a "Choose File" button. To the right of the button, it says "no file selected".

**Supported Items:** This section contains two text input fields. The first is labeled "Title:" and contains the placeholder text "Enter a title for this item". The second is labeled "Tags:" and contains the placeholder text "Separate tags with commas".

At the bottom of the dialog box, there are two buttons: "Add Item" and "Cancel".

# HTML5

- **Targeted use of key capabilities to improve the user experience**
  - **File API**
  - **Drag and Drop API**
  - **Local Storage**
  - **HTML5 CORS**
- **App appropriately advertises what the browser supports**

# Browser inconsistencies

- **UI should look similar across browsers**
- **Slower browsers can be a pain point**
  - **Set different limits for computationally intensive operations**
  - **Enable Chrome Frame to be used where available**
  - **Don't support IE6**



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