



Customizing and Extending ArcGIS Web Application Templates

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Technical Workshop

What are templates



Language support

图例

关于

图层

图例

▲ 登录到 Twitter

Flickr 照片过滤依据: Typhoon

fr

Twitter 推文过滤依据:

Légende

A propos

Couches

Légende

CoolingDegreeDays1961_1990

CoolingDegreeDays1961_1990

■ A 100 or less

■ B 101 - 400

طبقات

نبذة عن

مفتاح الخريطة

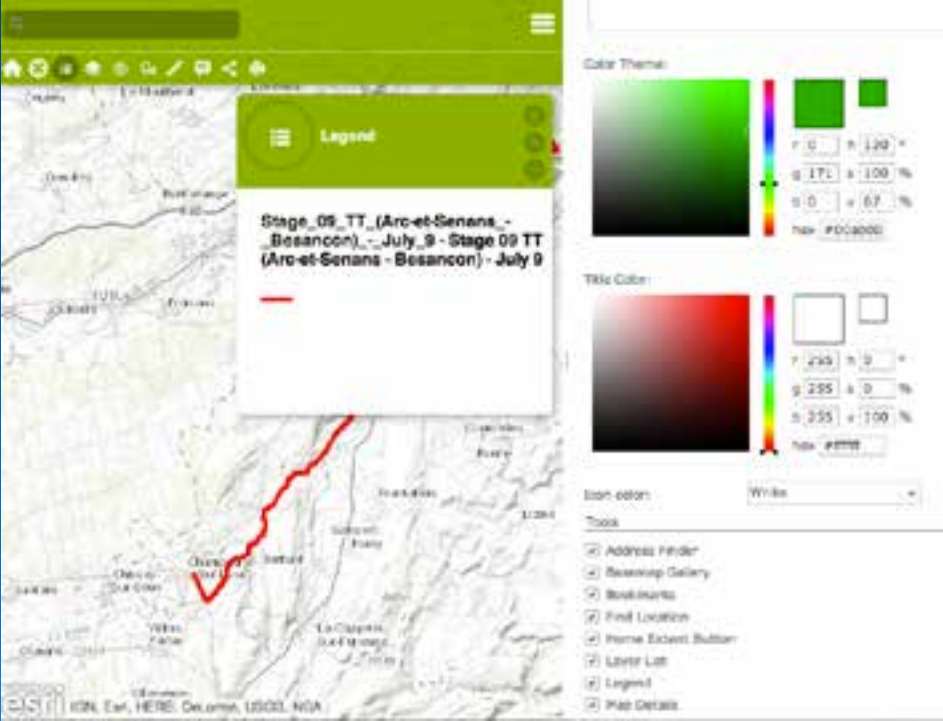
مفتاح الخريطة

▲ تسجيل الدخول إلى Twitter

Flickr يتم تنقية الصور بواسطة: Typhoon

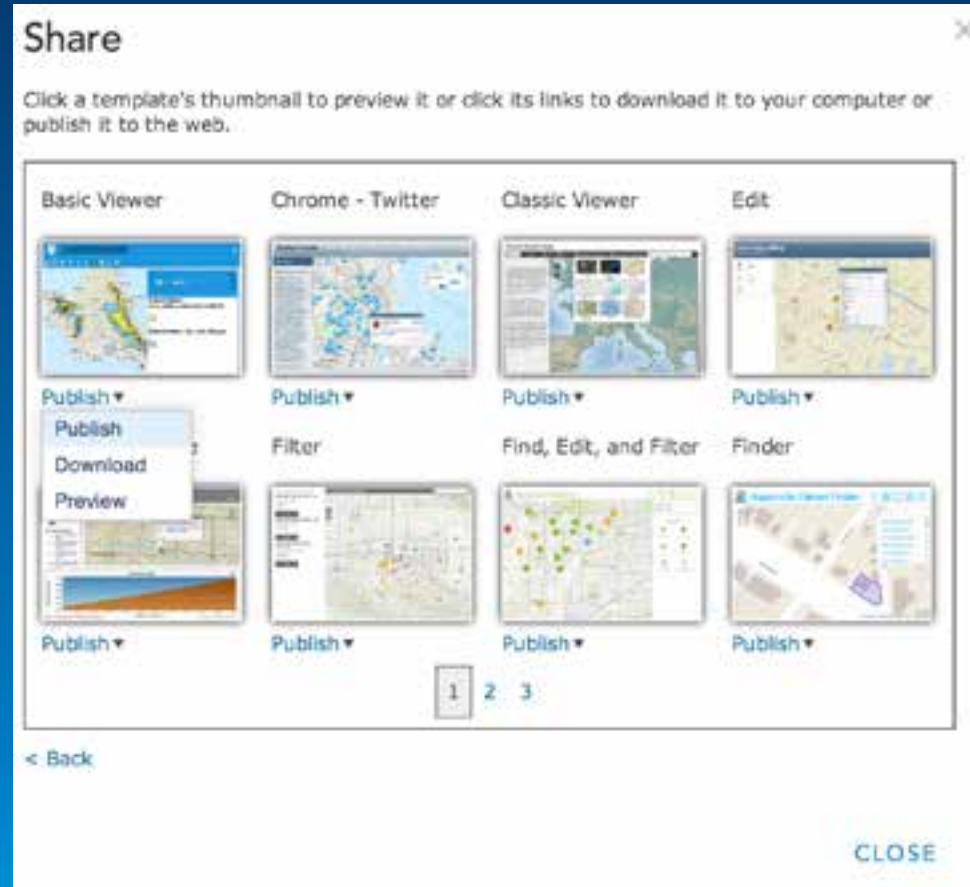
fr

Configurable

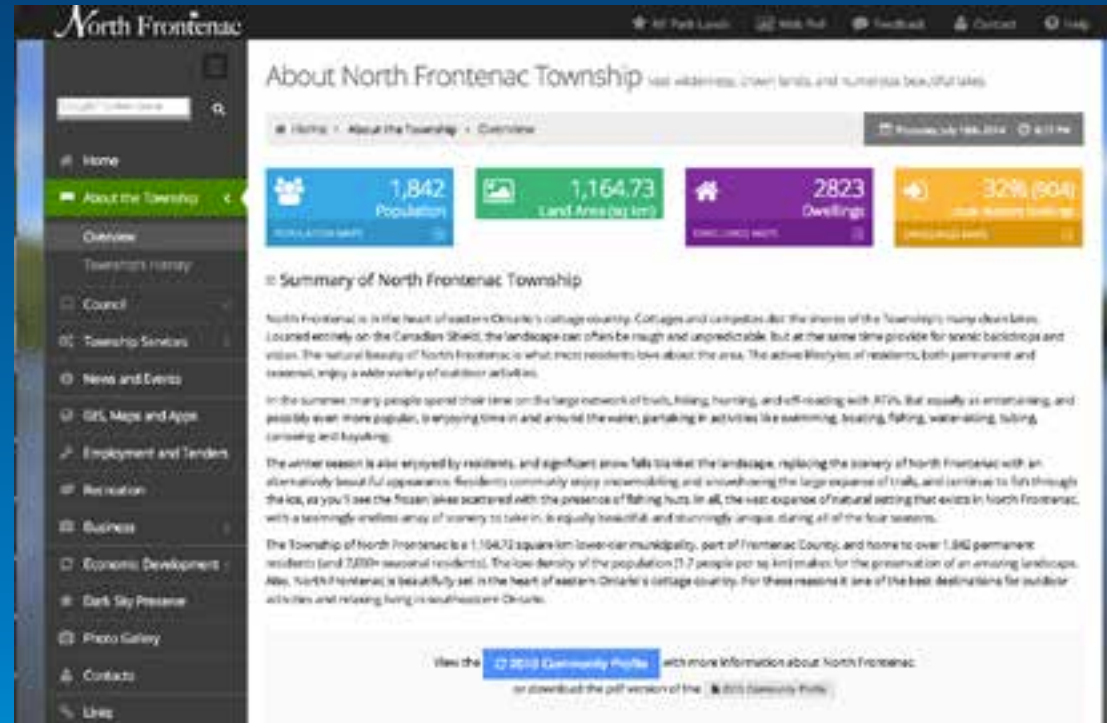


Sharing options

- Publish
- Download



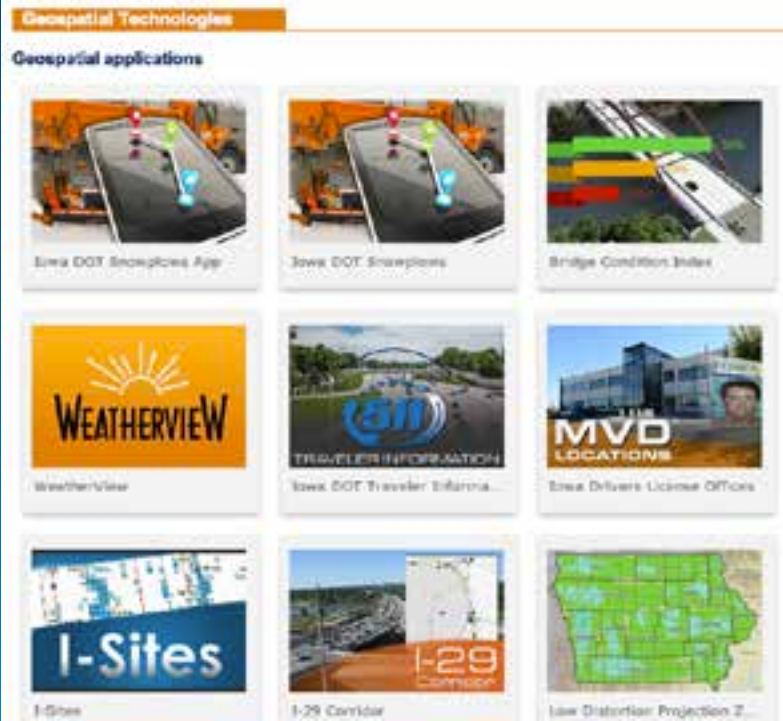
Using templates



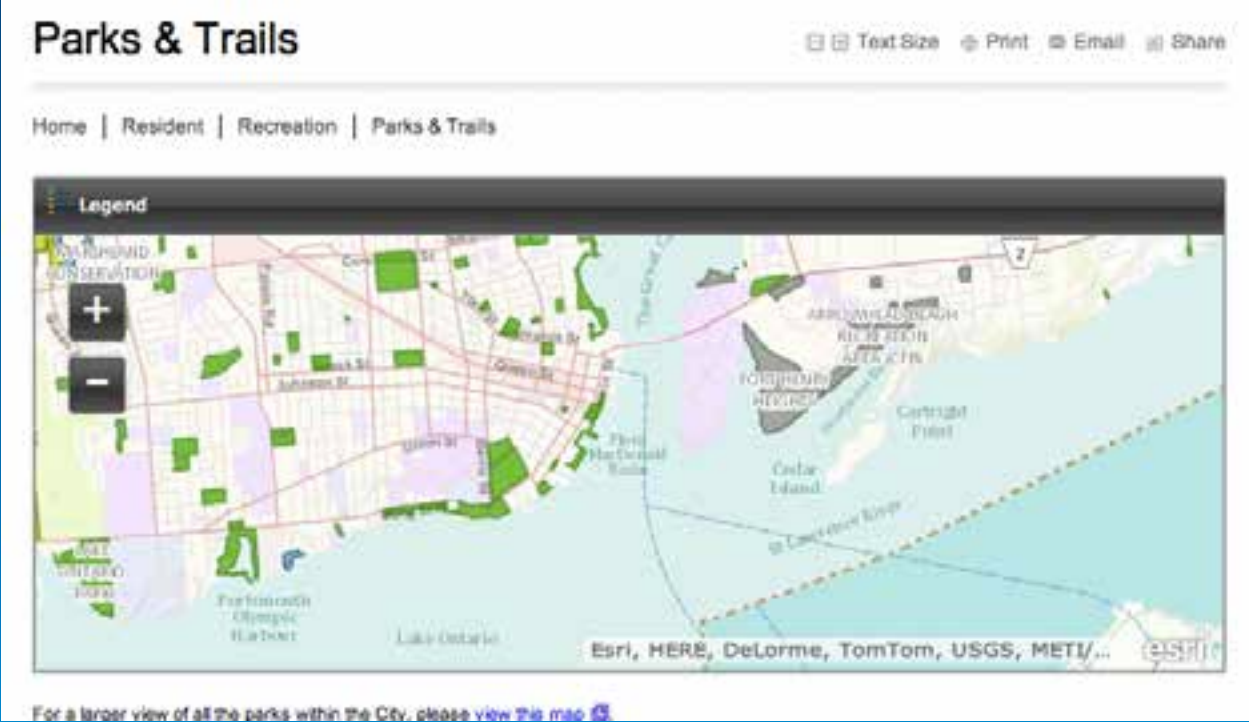
Tell a story



Map and App Gallery

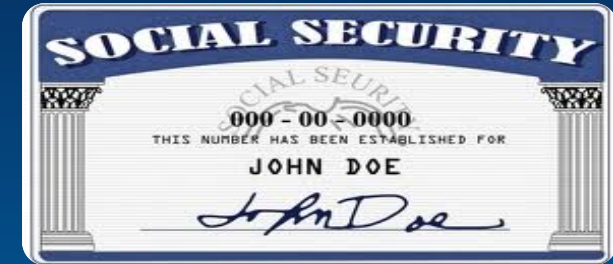


Embed map or gallery



Map id

A unique identifier, like a social security number

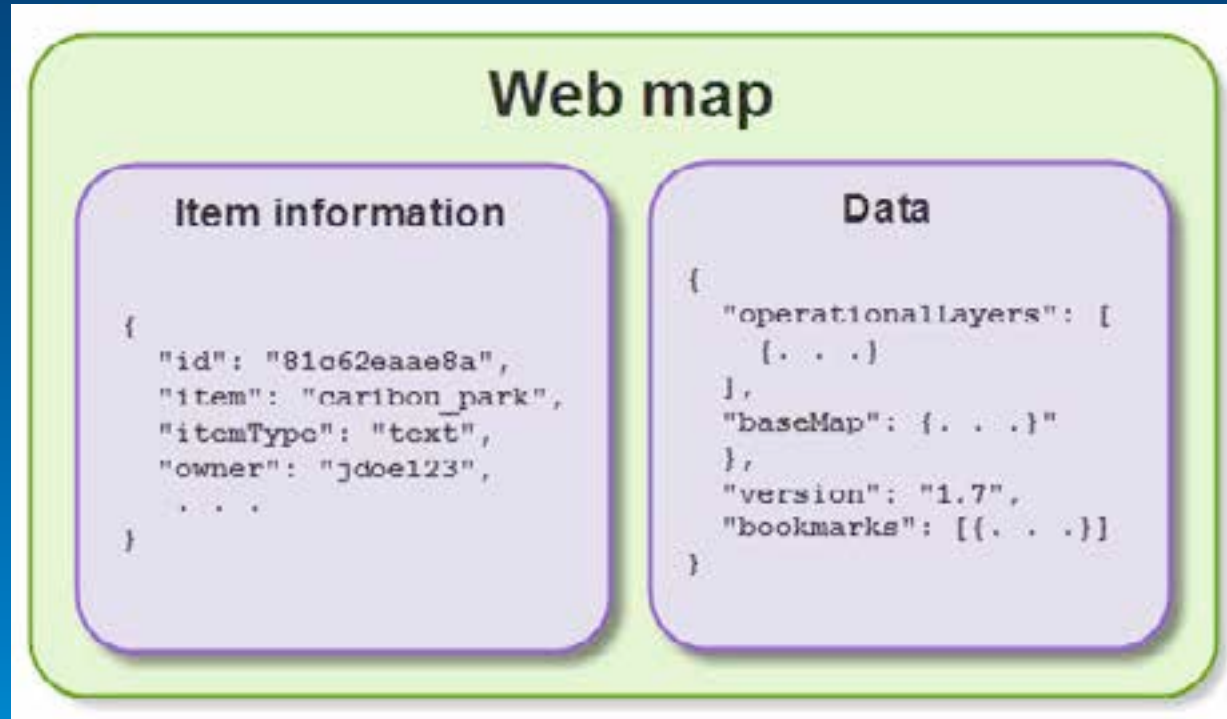


www.arcgis.com/home/webmap/viewer.html?webmap=ef5920f160bd4239bdeb1348de3a3156

Demo: Build a map

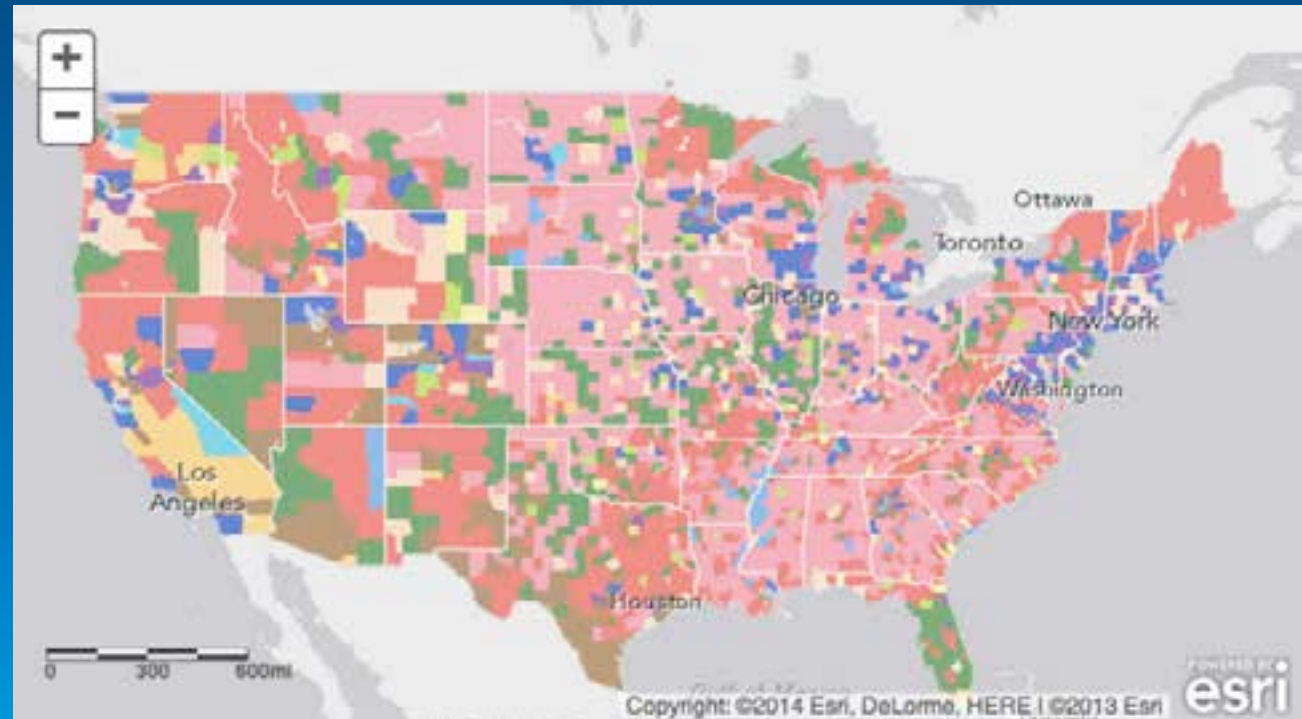


Web Map Specification



Web Maps

- `createMap`
- `getItem`
- `getLegendLayers`

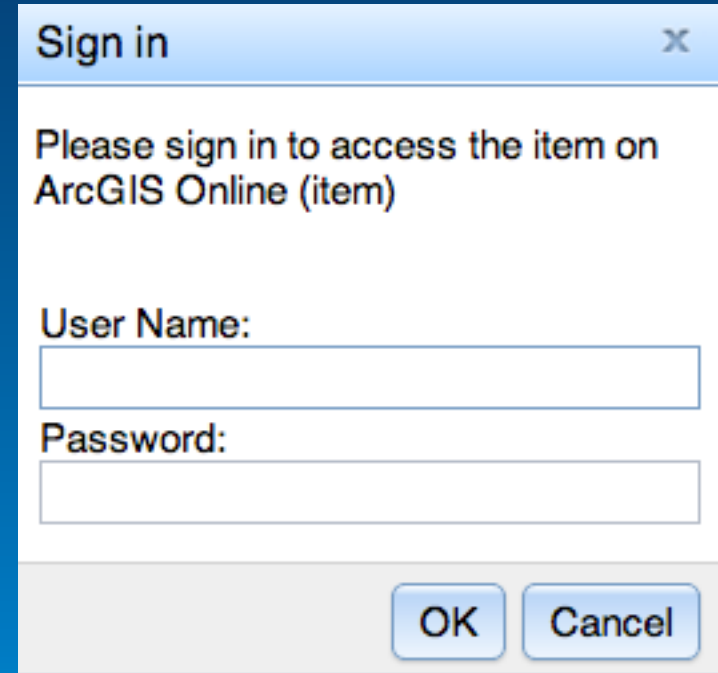


Demo: Working with the web map



Authentication

- Anonymous
- Authenticated
- Supports OAuth2



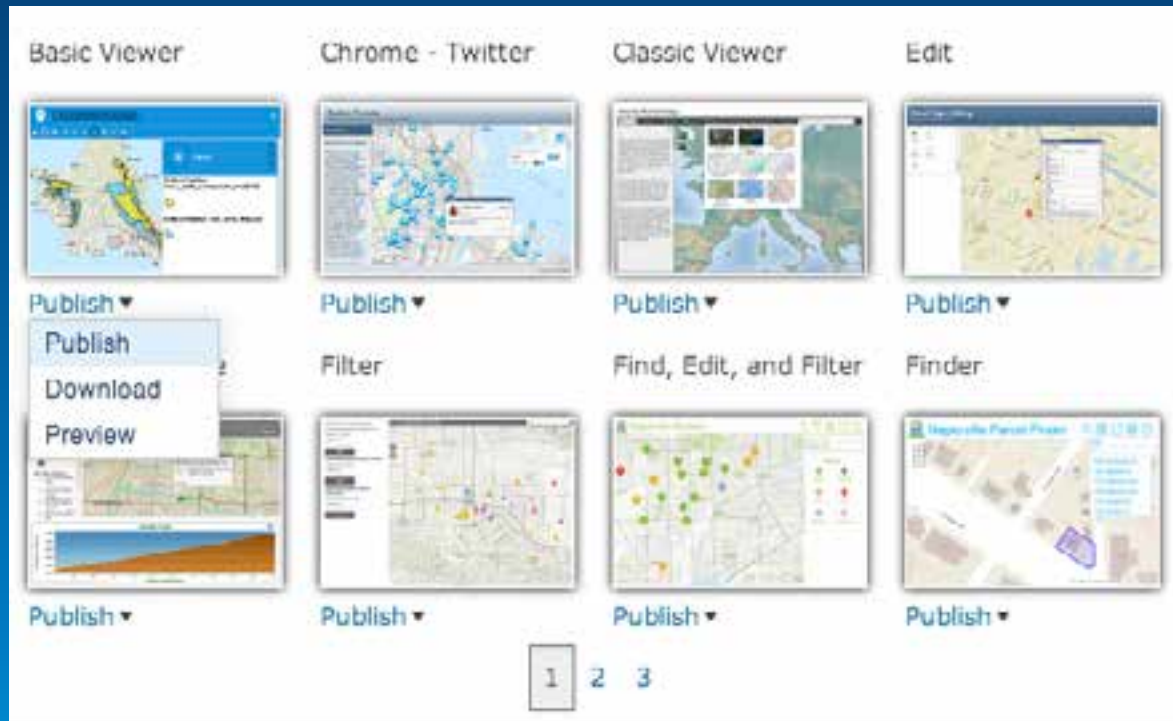
Sign in ✕

Please sign in to access the item on ArcGIS Online (item)

User Name:

Password:

OK Cancel



Configuring Templates



Configure template

[SELECT WEB MAP](#)

Currently displaying GeoForm Test Required Fields web map. Use the button to choose a different web map.

Title:

Title logo:

Description

B I U

Color Theme:

r h °

g s %

b v %

hex

Title Color:

r h °

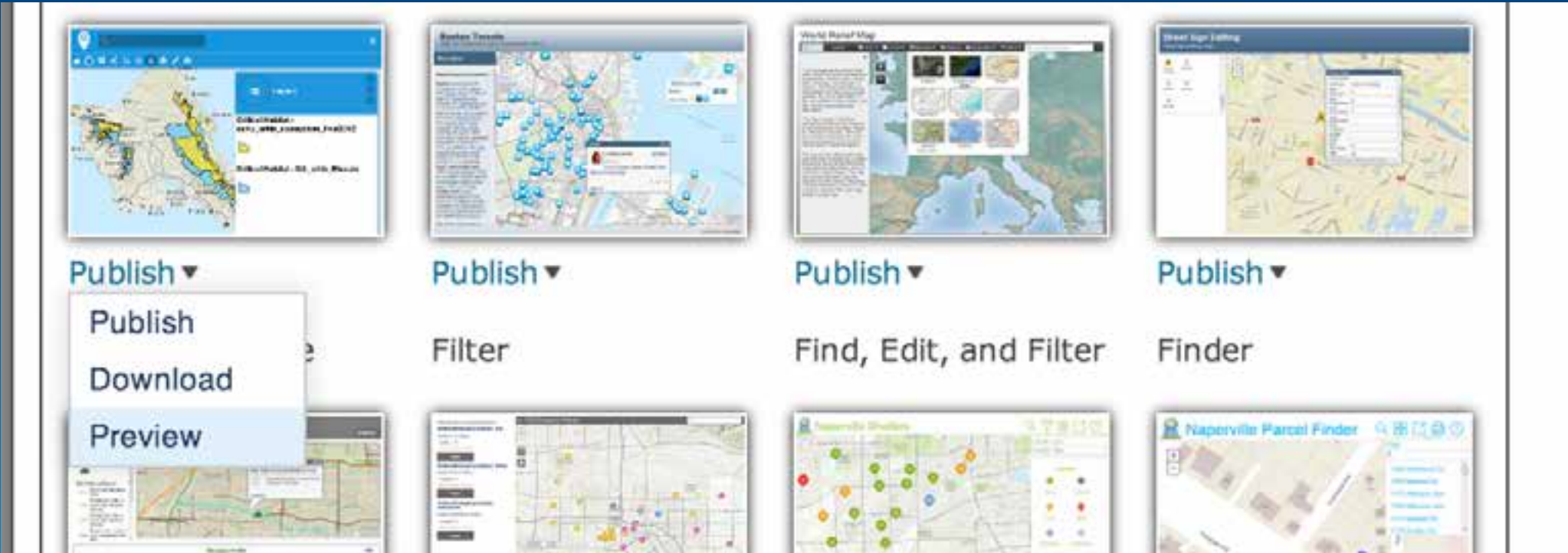
g s %

b v %

hex

Icon color:

Create an application



Group Templates too



Demo: Create an app

Boston Marathon



test

 Web Map by [khutchins_jsapi](#)

Last Modified: July 3, 2014


☆☆☆☆☆ (0 ratings, 7,157 views)

 Facebook  Twitter

Custom Template Gallery

- Early Adopters
- Custom templates

Web App Templates



Web application templates contain sample layouts you can use to build web mapping applications with little or no development. Choose which group contains the web app templates you want to use.

Esri Default

Customizing Templates



Esri

Redlands, California, USA <http://www.esri.com>

Filters ▾

template

+ New

impact-summary-map-template-js

JavaS

This interactive map highlights who and what has been impacted by this incident and the effects of the disaster, its location, and the potential impact it has caused to the infrastructure, businesses, population, and households in and around area of the disaster.

Updated 5 hours ago

geoform-template-js

JavaS

GeoForm is a configurable template for form based data editing of a Feature Service.

Updated 4 days ago

public-information-map-template-js

JavaS

An ArcGIS Online mapping template to showcase social media on a map for disaster response public information.

Updated 4 days ago

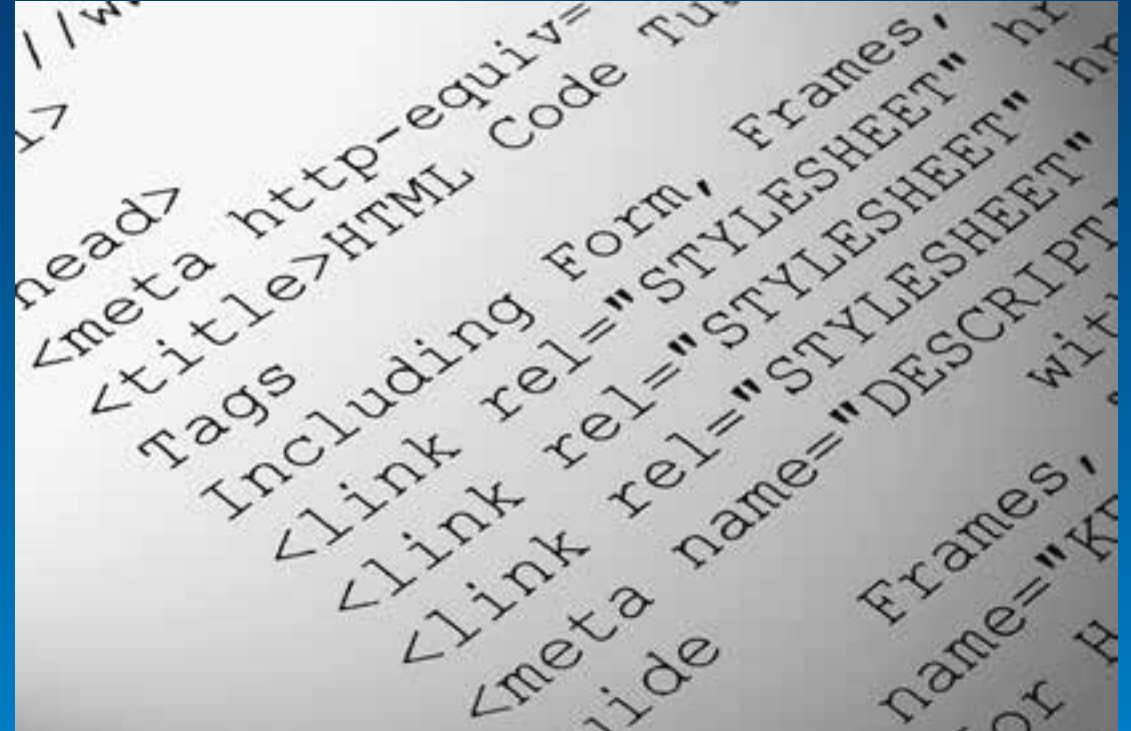
social-media-map-template-js

JavaS

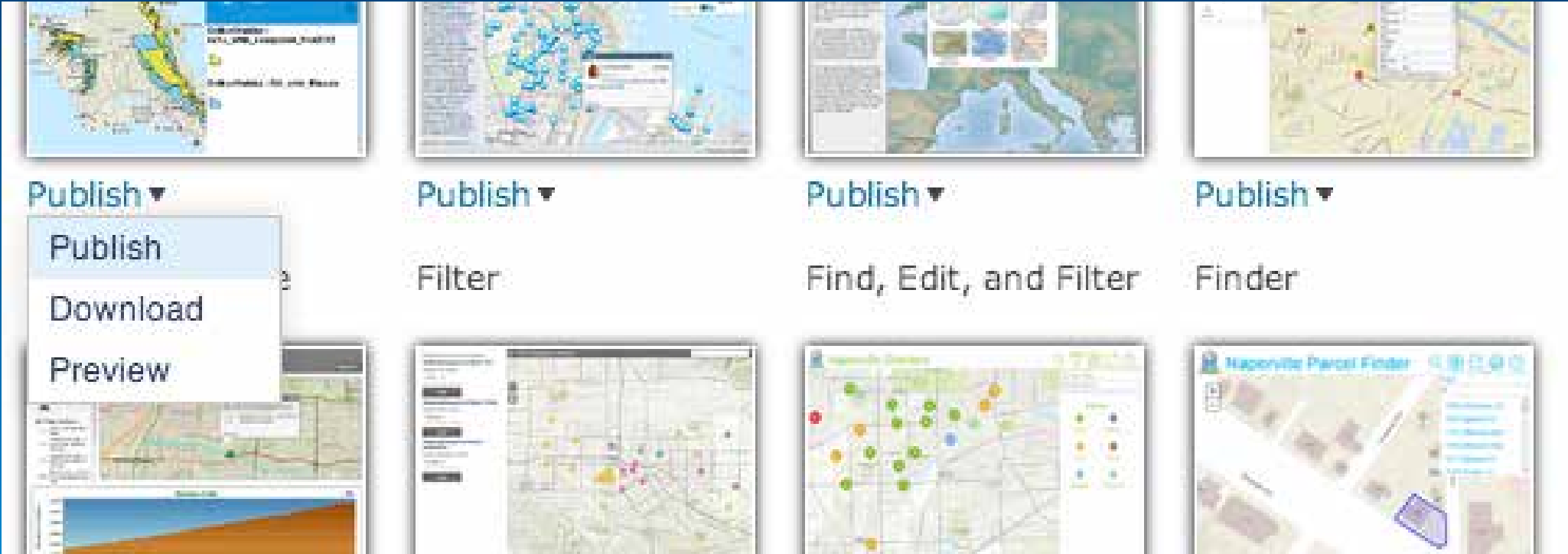
The Social Media Template has an innovative use of social media, which allows you to date, keyword-targeted social media points on a map.

Updated 4 days ago

Methods of Customization



Webmap Web Application



Download Item (PIM)

The screenshot shows the GitHub repository page for 'public-information-map-template-js'. At the top, it displays repository statistics: 298 commits, 3 branches, 3 releases, and 3 contributors. Below this is a navigation bar with a dropdown menu set to 'branch: master' and the repository name 'public-information-map-template-js / +'. The main content area shows a commit history table with the following entries:

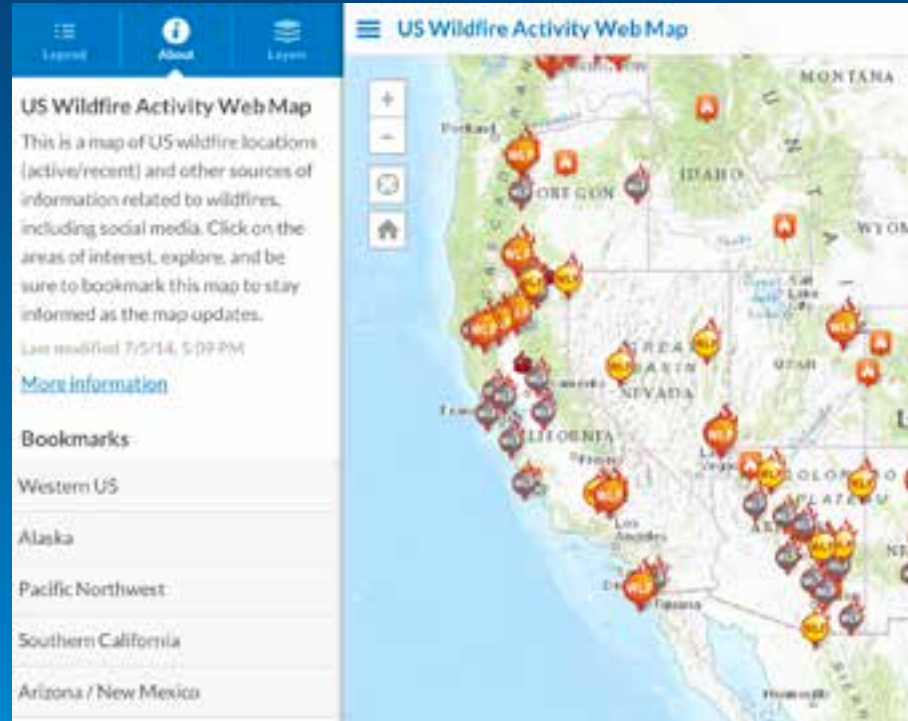
Commit Message	Author	Time
always use https for flickr	driskull	21 hours ago
update boilerplate		a month ago
fix youtube		a month ago
#4 fix selecting input boxes. Also added link icon incase user wants ...		2 months ago
add youtube, clean up search params		a month ago
always use https for flickr		21 hours ago
add time to instagram and flickr		a month ago
JS Hint config		5 months ago

On the right side of the repository page, there is a sidebar with navigation links: Issues (2), Pull Requests (0), Wiki, Pulse, Graphs, Network, and Settings. At the bottom of the sidebar, there is a section for the 'HTTPS clone URL' with the address 'https://github.com/Er...' and a copy icon.

Demo: Getting the Code & GitHub Issues

The screenshot displays a GitHub Issues interface. At the top, there are tabs for "Browse Issues" and "Milestones", and a green "New Issue" button. Below the tabs, a filter menu is open, showing "Everyone's Issues" with a count of 2, "Assigned to you" with 1, "Created by you" with 0, and "Mentioning you" with 1. To the right of the filter menu, there are buttons for "2 Open" and "12 Closed", and a "Sort: Newest" dropdown. The main content area shows a list of issues. The first issue is "Change Logo and Add Printer Function" with the label "enhancement" and ID "#12", opened by "afrocodes" 23 days ago with 3 comments. The second issue is "Panels are hidden when user scrolls down on TOC." with the label "enhancement" and ID "#6", opened by "pjdoherlygis" on May 12 with 2 comments. At the bottom left, there is a "Labels" section showing "enhancement" with a count of 2. On the right side, there is a vertical toolbar with various icons for navigation and actions.

DEMO: Customize PIM Template



Application Boilerplate

HTML



CSS



JS



What is it?

- **Starter Application**
- **Includes template & app logic**
- **Working with ArcGIS Online**
 - **Webmaps**
 - **Services**
 - **i18n**
 - **Authentication**
 - **Configurable**



Why would I need it?

- **Makes life simpler**
- **Handles common template logic**
- **Mixes in data**
- **oAuth workflow**
- **Template configuration for Arcgis.com**
- **Used in newer templates on AGOL**

Defaults

- Theme, proxy, custom settings for your app

Localization (Optional)

Sign-in Status

Web Map, Group, Group Items (1 or more)

- Portal class if necessary

Organization (Optional)

- Geocoders, print tasks, geometry services

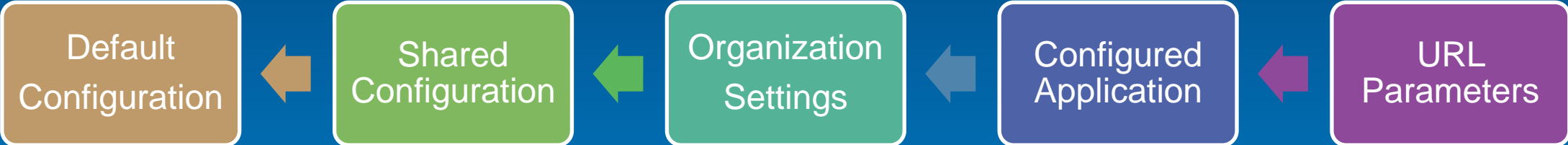
Configured Application (Optional)

- ?appid=<id>

URL Parameters (Optional)

- ?webmap=<webmap>

Mixing-in Layers of Data

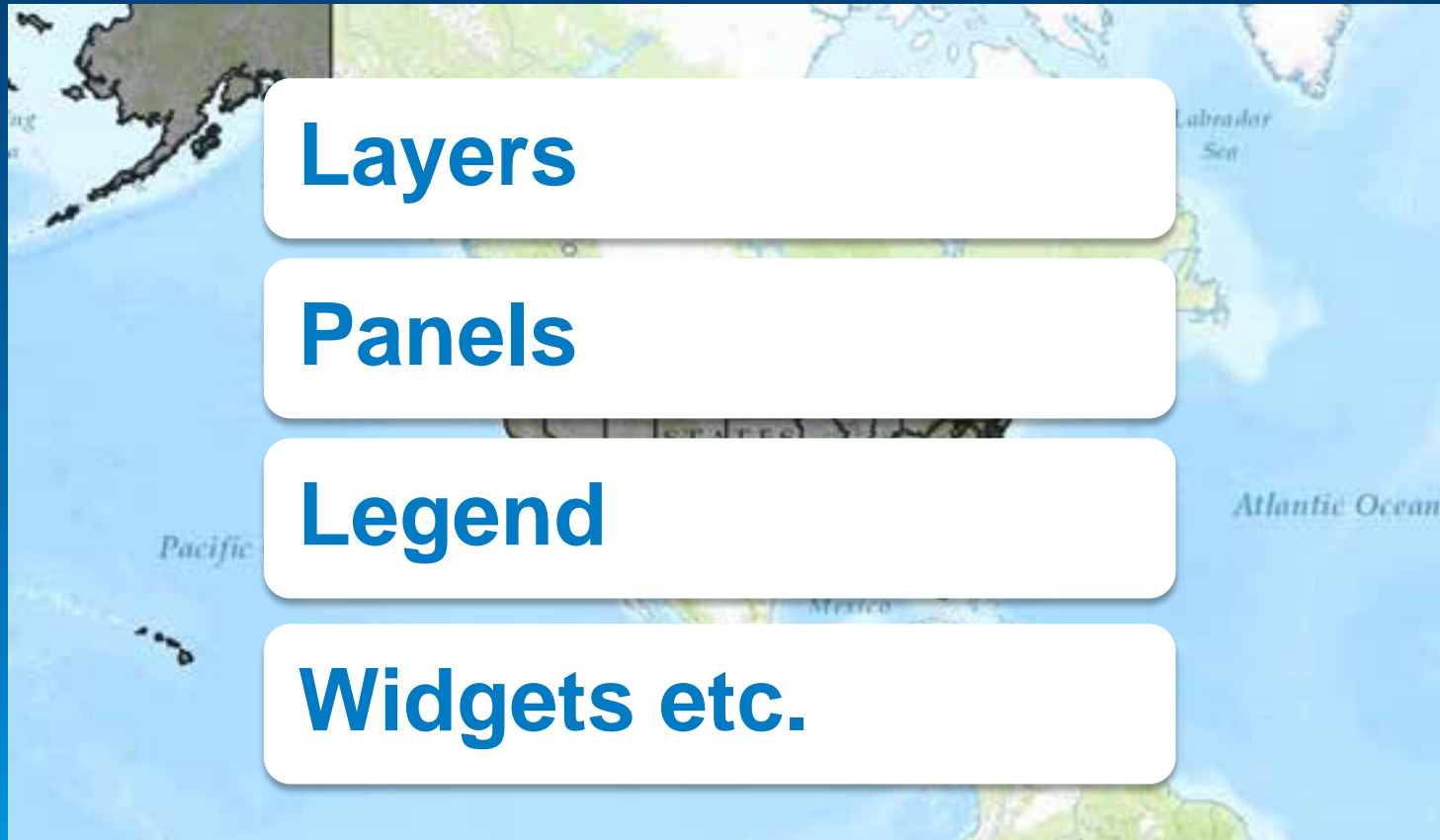


Authentication

- **OAuth2**
 - **User Logins**
 - **App Logins**
 - **Can be stored**



Customizing



Demo: Dissecting the Boilerplate

```
51         templateConfig,  
52         Template,  
53         Main  
54     ){  
55         // create the template. This will take care of all the logic requi  
template applications  
56         var myTemplate = new Template(templateConfig);  
57         // create my main application. Start placing your logic in the mai  
58         var myApp = new Main();  
59         // start template  
60         myTemplate.startup().then(function(config) {  
61             // The config object contains the following properties: helper  
(optionally)  
62             // i18n, appid, webmap and any custom values defined by the ap  
63             // In this example we have one called theme
```

Demo: Lets customize!



Webmap, Group, GroupItems



Demo: Customize Boilerplate & Create Template

- **Add Locate Button**
- **Add Legend**
- **Modify Configuration JSON**
- **Create Item on AGOL**
- **Share Item into template group**
- **Preview Item**
- **Configure Item**

Edit Application Item



Configurable Demo App

Web Mapping Application by matt.driscoll

Last Modified: March 6, 2014

☆☆☆☆ (0 ratings, 36 views)

Facebook Twitter

OPEN ▾

SHARE

EDIT

DELETE

MOVE ▾

CHANGE OWNER

ATTACH CODE

JSON!

```
{
  "configurationSettings": [{
    "category": "<b>Choose template theme</b>",
    "fields": [{
      "placeholder": "Defaults to map owner",
      "label": "Owner Text:",
      "fieldName": "owner",
      "type": "string",
      "tooltip": "Defaults to map owner"
    }, {
      "type": "string",
      "fieldName": "theme",
      "tooltip": "Color theme to use",
      "label": "Color Scheme:",
      "options": [{
        "label": "Chrome",
        "value": "chrome"
      }, {
        "label": "Seaside",
        "value": "seaside"
      }, {
        "label": "Pavement",
        "value": "pavement"
      }
    ]
  }
],
  "values": {}
}
```

Configuration Parameters

Properties

URL

Purpose

API

Tags

Credits

Delete Protection Prevent this item from being accidentally deleted.

Extent

Configuration Parameters

{ JSON }

Code on GitHub

application-boilerplate-js

The Application Boilerplate is a starter application for building custom templates with the ArcGIS API for JavaScript.

Features

This bare-bones app includes all the code you need to build an ArcGIS Online template. It will save you time when:

- Making an ArcGIS Online compatible template.
- Using your ArcGIS Online webmap to power the template.
- Localizing your application in different languages.
- Capturing URL parameters and using them in your application.
- Using settings from your ArcGIS Online organization or configured application.
- Enabling your application to sign-in to ArcGIS Online using [OAuth 2.0](#).

[View it live](#)





GitHub

esriurl.com/boilerplate

Thank you...

- **Please fill out the session survey:**

Wed 7/16: 1274

Thu 7/17: 1393

Online – www.esri.com/ucsessionsurveys

Paper – pick up and put in drop box



Understanding our world.