

Do-It-Yourself Exercise

Experiment with the ArcGIS API for
JavaScript

Section 7 Exercise 2

08/2017



Experiment with the ArcGIS API for JavaScript

Time to complete

Approximately 60-70 minutes.

Introduction

This do-it-yourself exercise is designed to allow you to apply what you've learned in this section's first exercise with less guidance. Feel free to be creative! It also provides you with an opportunity to further explore available resources and samples.

Note: Completing this exercise is not necessary to earn your certificate, but completion is required to be eligible to earn an award from Esri!

Further Explore the ArcGIS API for JavaScript

In this section's guided exercise, you altered sample code to change the web map shown in an app, as well as changed the selection outline in Esri's JavaScript sandbox. In this exercise, we encourage you to challenge yourself and grow your custom-app development skills.

If you are new to JavaScript development, try working with some of the other [JavaScript samples](#) or one of Esri's [HackerLabs](#). Read through the resources at the end of this exercise to learn more about web programming. Don't be afraid to tinker and ask questions.

If you do have experience with JavaScript, you can always build an app without using a template, relying on the API for JavaScript [guide](#). Or, you can download existing template source code from [GitHub](#) and modify it to suit your needs. You will need to host your custom app on a web server and then [register](#) it in ArcGIS Online before you can share it with the MOOC community.

Share Your App

If you created a custom app with the ArcGIS API for JavaScript, or any of the other APIs or SDKs, we want to see it! Share it with your peers in the Custom Apps group if you want feedback from the MOOC community.

There are three main ways you can share your geo apps to the appropriate group.

1. When you create a new web app from a web map

In the Share dialog, before clicking Create a Web App, share your web map with Everyone (public) and the correct group, as shown in the image below.

Share

choose who can view this map.

Your map is currently shared with these people.

Everyone (public)
 Do-It-Yourself Geo Apps
 Members of these groups:

AppStudio apps
 Configured apps
 Custom apps
 GeoForm apps
 Story Map apps
 Web AppBuilder apps

Link to this map
<https://www.arcgis.com/home/webmap/viewer.html?webmap=7bd79644b9124de3b3424ba6438452&extent=-98.0859,-31.2472,98.0859,56.5312>

Share current map extent

Embed this map

[EMBED IN WEBSITE](#) [CREATE A WEB APP](#)

Then, in the Create a New Web App dialog, select Share This App In The Same Way As The Map.

Create a New Web App

Specify a title, tags, and a summary for the new web app.

Title:

Tags: [Add tag\(s\)](#)

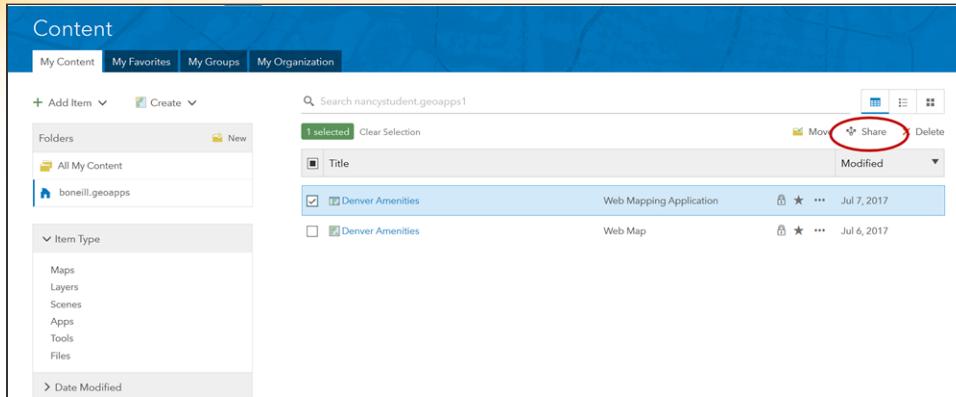
Summary:

Save in folder: Share this app in the same way as the map (Everyone, Do-It-Yourself Geo Apps, Custom apps)

2. From Content

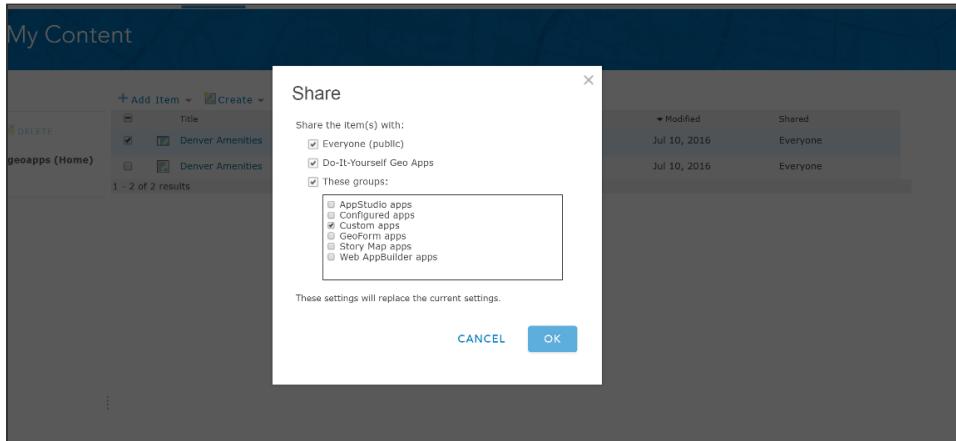
From your My Content page, select the web application and click Share.

Do-It-Yourself Geo Apps MOOC



The screenshot shows the ArcGIS Content interface. On the left, there's a sidebar with 'Folders' containing 'All My Content' and 'boneill.geoapps'. Below it is a 'Item Type' dropdown with options like Maps, Layers, Scenes, Apps, Tools, and Files. The main area lists two items: 'Denver Amenities' (Web Mapping Application) and another 'Denver Amenities' (Web Map). The toolbar at the top has a 'Share' button highlighted with a red circle.

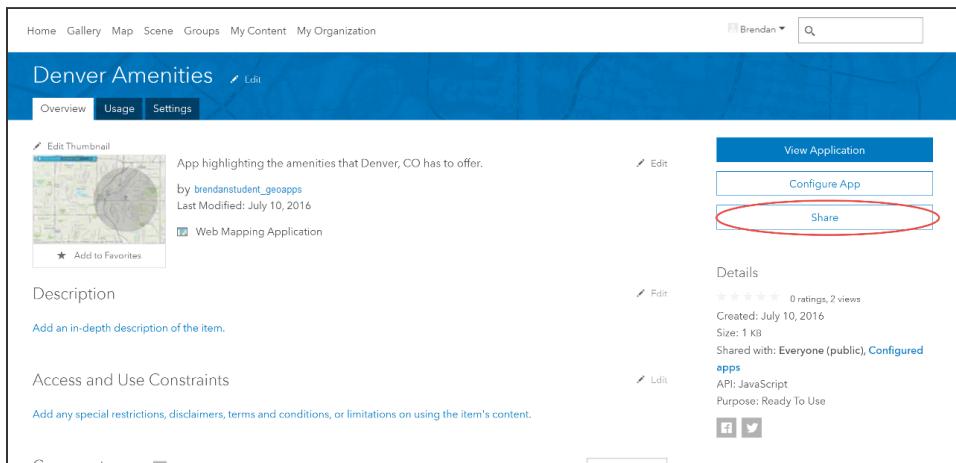
In the Share dialog that appears, select Everyone (public) and the appropriate group.



The screenshot shows the 'Share' dialog box. It lists 'Share the item(s) with:' and includes checkboxes for 'Everyone (public)', 'Do-It-Yourself Geo Apps', and 'These groups:'. Under 'These groups:', 'Custom apps' is checked. At the bottom, it says 'These settings will replace the current settings.' and has 'CANCEL' and 'OK' buttons.

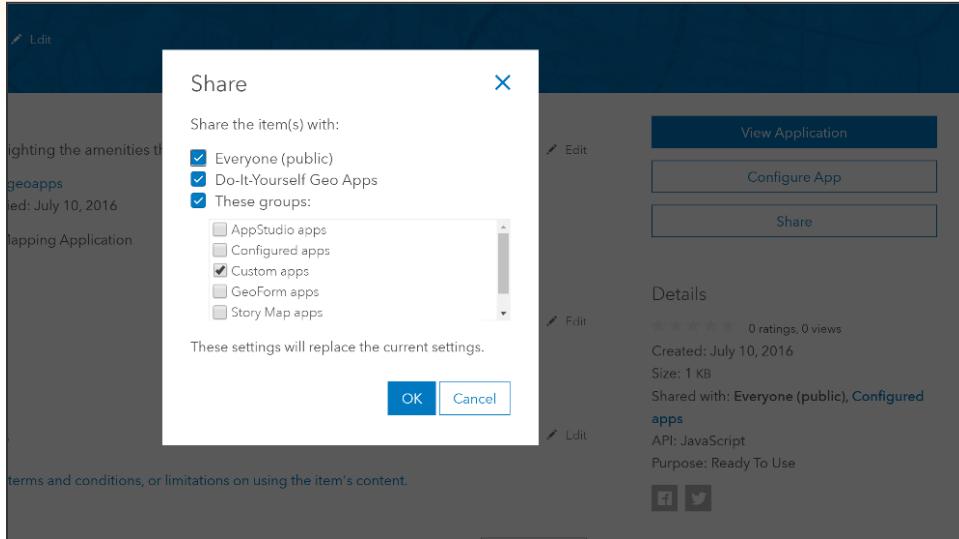
3. From the Item Details page

On the Item Details page, click the Share button.

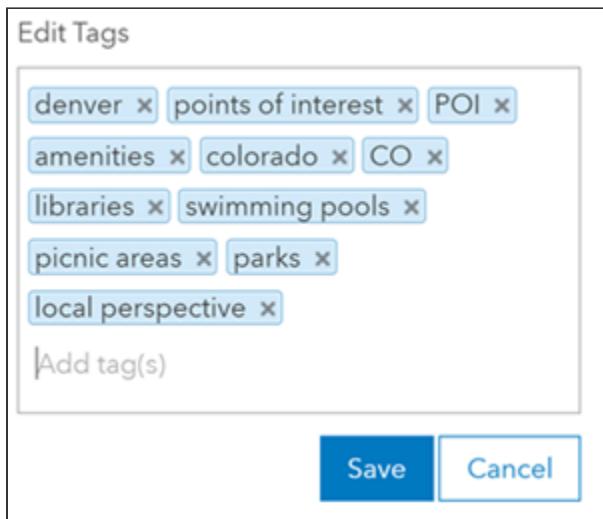


The screenshot shows the 'Denver Amenities' item details page. The 'Usage' tab is active. In the top right, there's a 'Share' button highlighted with a red circle. Other buttons like 'View Application' and 'Configure App' are also visible. The page includes sections for 'Edit Thumbnail', 'Description', 'Access and Use Constraints', and 'Details'.

In the Share dialog, select Everyone (public) and the appropriate group.



Tagging your apps appropriately will also help users search and find them.



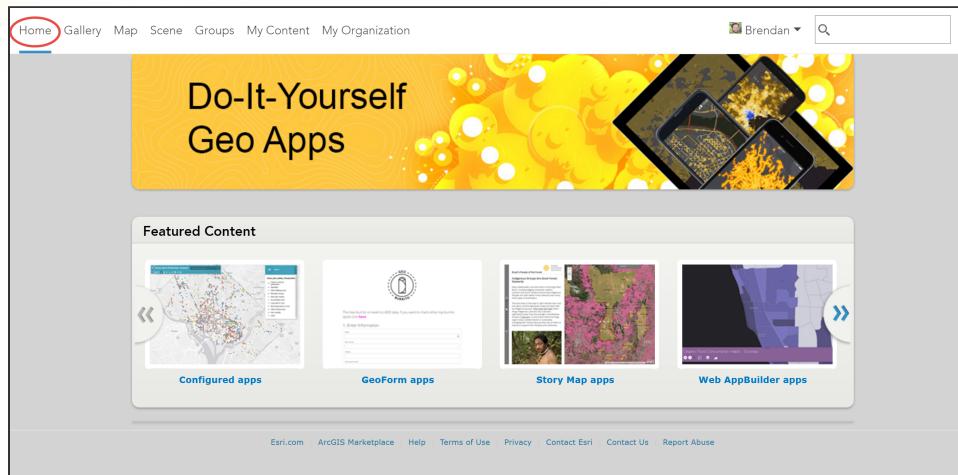
Promote Your App in Udemy and on Twitter

Let your peers know about your creation in Udemy. Post a comment in this lecture space to promote your app. You can also use the hashtag #DIYGeoApps to post your creations on Twitter.

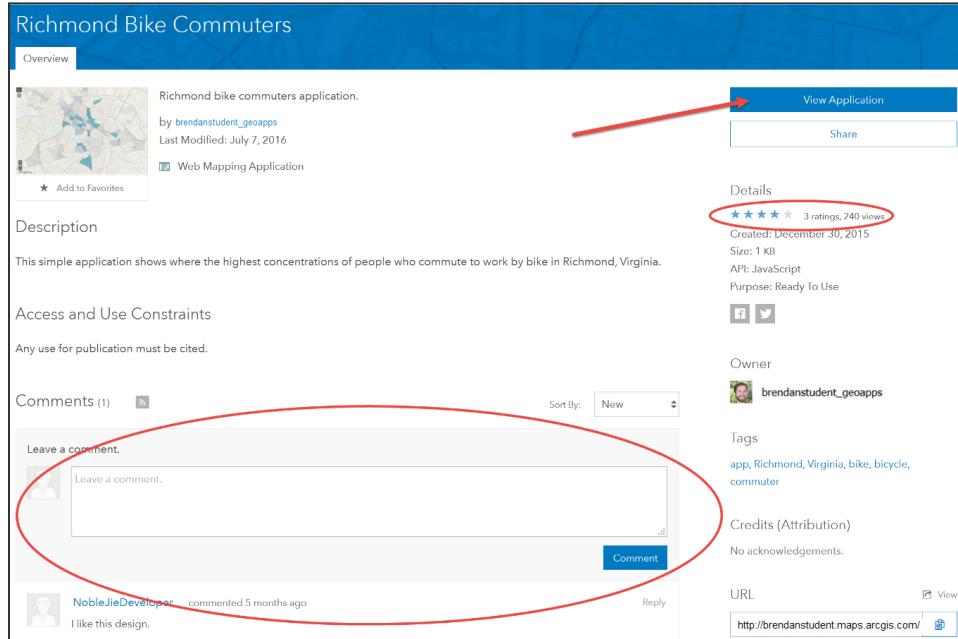
View and Rate Your Peers' Geo Apps

Do-It-Yourself Geo Apps MOOC

All shared work is easily accessed from your Do-It-Yourself Geo Apps organization Home page. Be sure to view the work of your fellow students and assess the quality of their apps.



After viewing the application, don't forget to rate it and give feedback in the Comments section.



Earn an Award!

The makers of the most popular geo apps will earn awards at the end of the course, so it is in your best interest to share your apps to the appropriate groups, make your apps searchable, and to promote them in Udemy and Twitter.

Learn More

Learn more about the topics in this section:

Resources

HTML

<http://www.w3schools.com/html/>

<https://www.codecademy.com/learn/web>

CSS

<http://www.w3schools.com/css/>

<https://www.codecademy.com/learn/web>

JavaScript

<https://www.codecademy.com/learn/javascript>

<https://www.codeschool.com/learn/javascript>

<https://teamtreehouse.com/learn-to-code/javascript>

<http://javascriptplayground.com/>

<http://www.codeavengers.com/>

<http://www.codewars.com/>

<http://coderbyte.com/>

Hacker Resources

Esri Hackathon Handbook

<http://hackathon-handbook.com/appendix.html>

This handbook includes several how-to-quickly-get-started links with various Esri APIs. Learn how to put maps in your apps using the ArcGIS platform!

Esri Hackerlabs Repo

<https://github.com/Esri/geodev-hackerlabs>

A place to learn how to build geo apps with the ArcGIS platform.