

# ArcGIS Online Mapping

Using ESRI's ArcGIS Online Mapping Service

## In this activity, you will:

- Create an ArcGIS Online Map
- Add layers using static web layers
- Add layers using a streaming data web service
- Add layers using a local file
- Add layers using map notes



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# Creating an ArcGIS Online Map

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Exercise: Students and teachers will create an ArcGIS Online Map using the four methods for adding data.

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**Summary of skills covered:**

- Creating an ArcGIS Online Map
- Add layers using static web layers
- Add layers using a streaming data web service
- Add layers using a local file
- Add layers using map notes

**Data needed:**

Students will create an online map using existing data or through collection of data.

**Equipment and Software needed:**

**Software:** Supported Internet Browser (see <http://doc.arcgis.com/en/arcgis-online/reference/browsers.htm> for supported browsers)

**Related book exercise (if applicable):**

No text necessary.

**Data Source:**

None.

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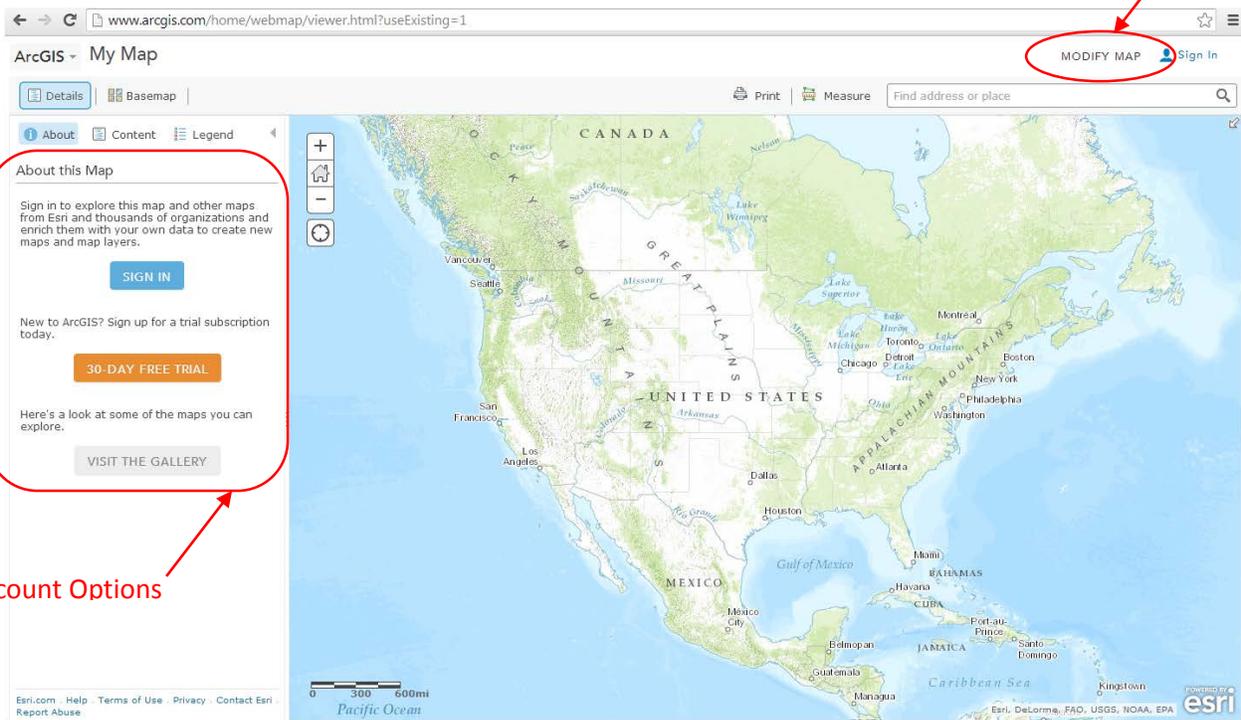
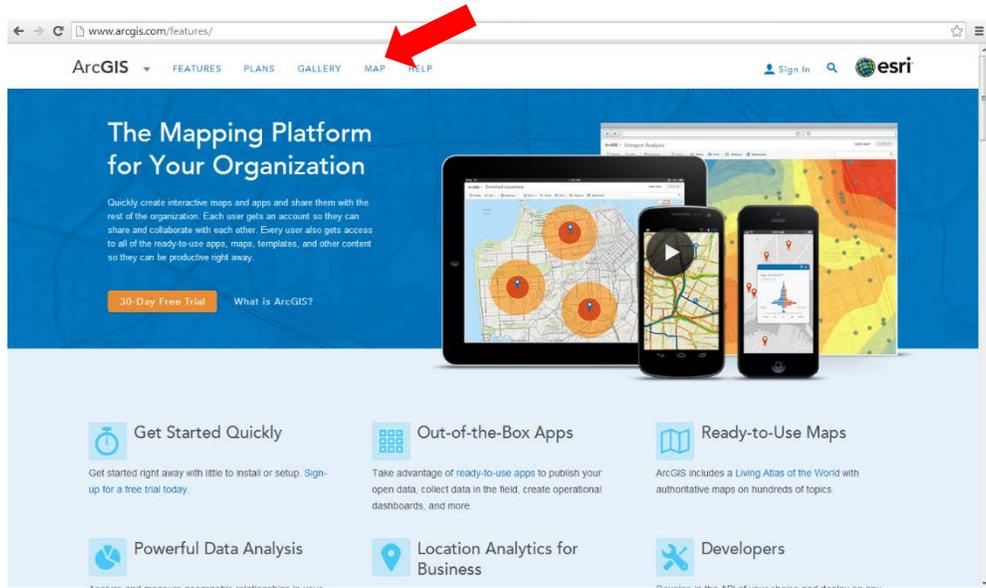
## **Objective**

Mapping has become easier to use than ever. The ArcGIS Online mapping platform allows mapping services to be used with any approved internet browser. You can create quick maps to print or brainstorm without even creating an account. However, if you chose to create an account you can save and share your creations.

Esri offers various ready to use maps that allow you to combine your data with Esri's authoritative maps on hundreds of topics. You can use standard basemaps and imagery and explore interesting maps about various topics. This tutorial will explore the four basic ways to add content to a map. To explore more about ArcGIS Online or to create your first map visit <http://www.arcgis.com/features/>

**Procedure:**

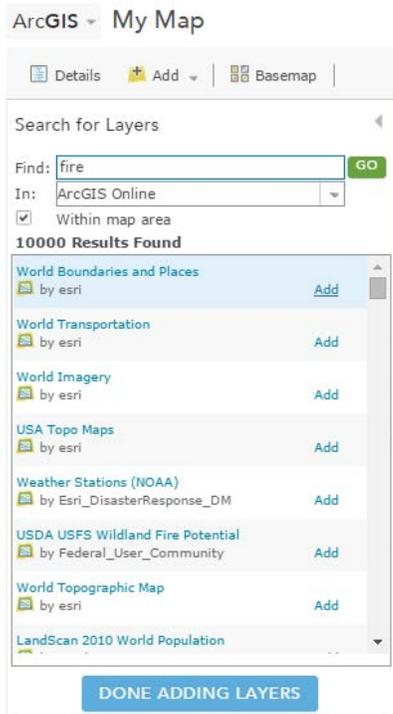
There are a lot of options fore viewing and creating maps with ArcGIS Online, even if you do not create an account. To begin go to [www.arcgis.com](http://www.arcgis.com) and click on Map.



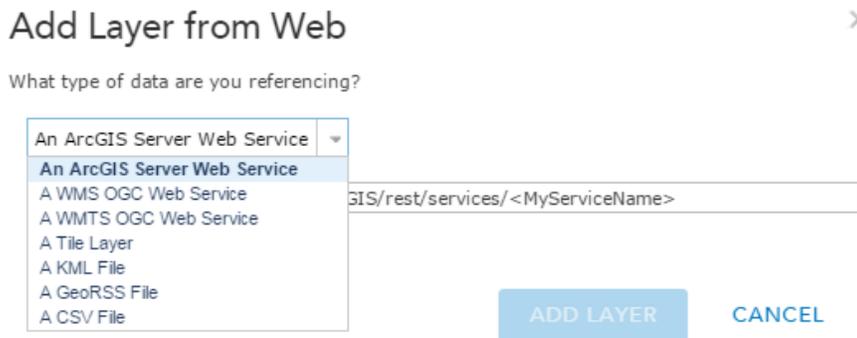


There are four ways to add data to a map. You can search for and add static layers from the web, add layers from the web (streaming data), add data from a file or manually add map notes.

1. **Search for Layers:** There are thousands of layers available on the web that can be added to your map. Metadata will assist with assessing the quality of the data. You can search by topic or service. You can add more than one layer at a time by clicking on **Add**.

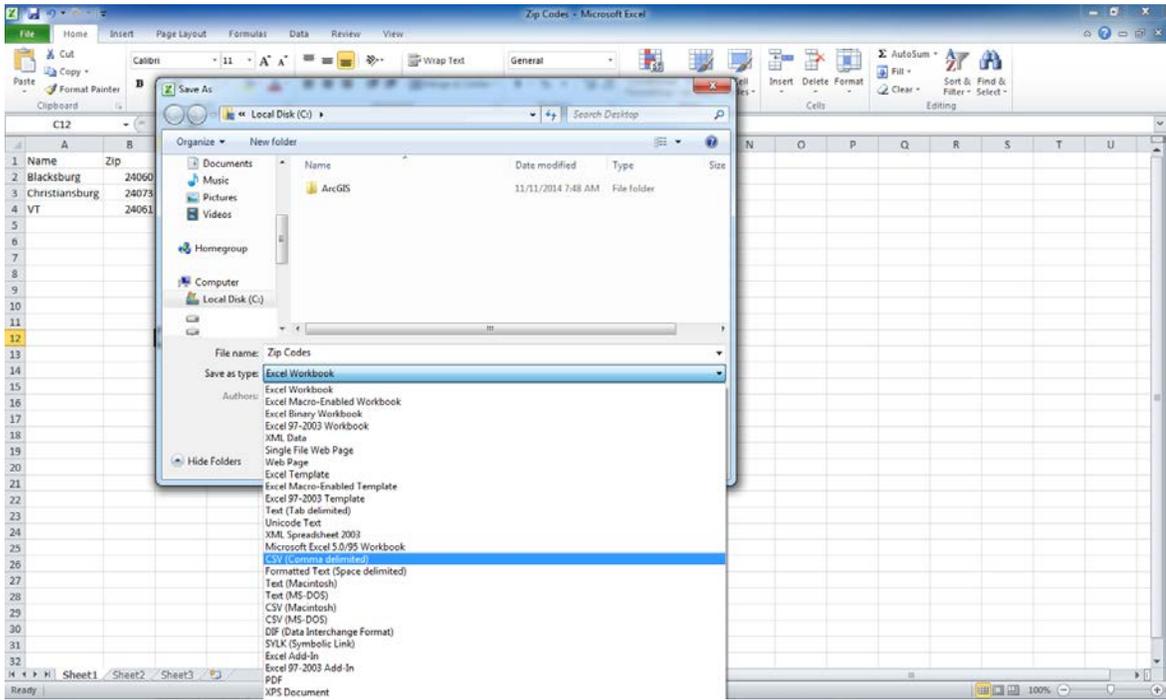


2. **Add Layer from Web:** There are times when a maps information changes so regularly, that it is beneficial to subscribe to a service to get real-time updates. As long as you have the URL you can stream the following web layer services.



- Add Layer from File:** If you have an existing file with point, line or polygon data in it you can add it to your online map by using the Add Layer from File option or by dragging and dropping the appropriate file type on the map.

A common file type is a .csv file that includes location information. If you collect data using a handheld GPS device, or using a mobile app with data collection options (ex. MotionX-GPS for iOS or My Tracks for Android), you can generate a .csv file by following the specific device instructions. You can also create your own spreadsheet as long as you save it as a .csv file.



On your ArcGIS Online map, chose Add Layer from File and chose your .csv, .txt or .gpx file.

### Add Layer from File

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Locate the file you want to import. You can import a zipped shapefile (ZIP) with up to 1000 features in it, a comma, semi-colon, or tab delimited text file (CSV or TXT), or a GPS Exchange Format (GPX). CSV and TXT with addresses can have up to 250 features.

File:  Zip Codes.csv

Tip: You can also drag and drop a CSV or GPX file from your desktop onto your map.

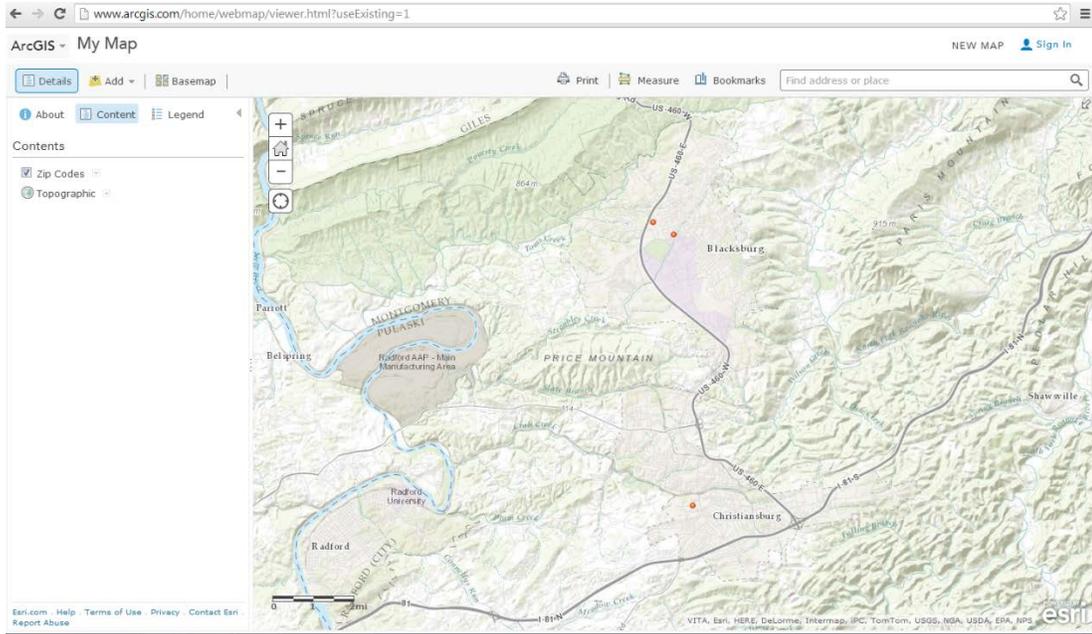
### Add CSV Layer

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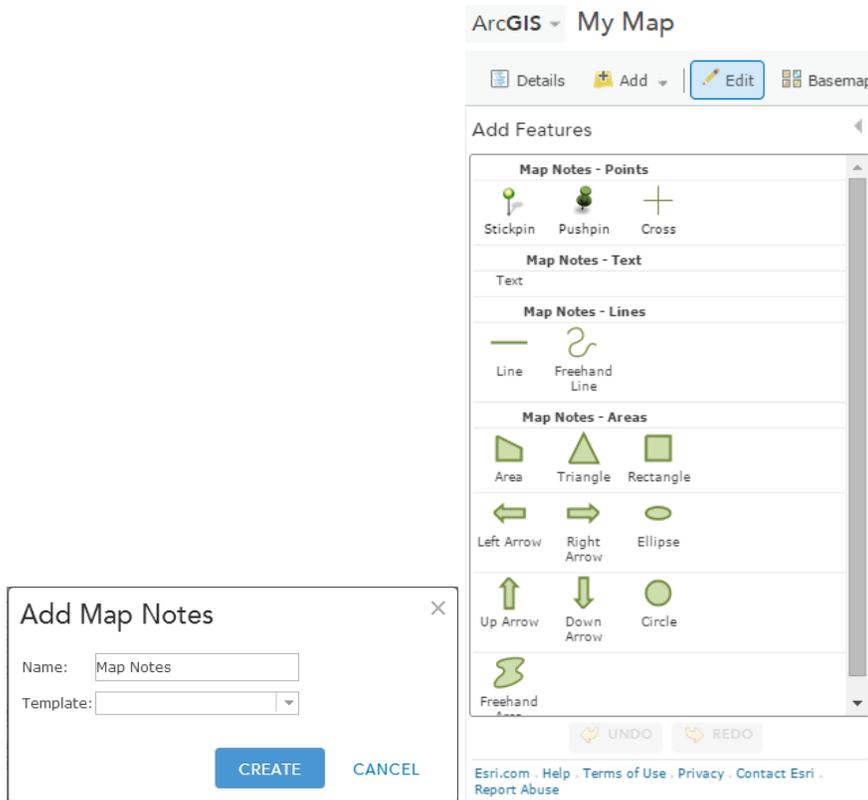
Locate features using:  Latitude/Longitude  Address

Review the location fields. Click on a cell to change it.

Field Name	Location Fields
Name	Not used
Zip	ZIP Code



4. **Add Map Note:** You can add standard map notes including point, lines and polygons.



None of these options require you to sign in with an ArcGIS Online account. This may meet your needs for a quick map display/print or brainstorming. However, if you wish to save your map you must **sign in** or **create an account**.

## Don't have an account?

### Sign up for an ArcGIS subscription

An ArcGIS subscription allows you to set up an online mapping portal for your organization.

**30-DAY FREE TRIAL**

### Not ready to subscribe?

You can create an ArcGIS Public Account with limits on usage. Note that if you have an Esri Account then you already have an ArcGIS Public Account and you can just sign in.

**CREATE A PUBLIC ACCOUNT**

### Sign In esri

**Username**

**Password**

Keep me signed in

**SIGN IN**

[Forgot username or password?](#)

[Sign in with your enterprise login](#)

Once you login you have more advanced options such as save, share, and create presentation. Creating an ESRI ArcGIS Online Organization account will give you even more share options as well as option for analyzing the layer's data.

