ArcGIS Online

Visualizing Data: Tutorial 1 of 4

2014

Created by: Julianna Kelly



Contents of This Tutorial

The Goal of This Tutorial

In this tutorial we will get you setup to use ArcGIS Online and teach you some of the basics. What is ArcGIS Online you may ask? Well it is a mapping software that is used over the internet. This is great because it means that the portability and compatibility options are endless. You will be able to create, edit, contribute, analyze, and share information and data using a device of your choosing. ArcGIS Online was developed by a company called ESRI, which has a high influence in the world of mapping software and is the home of something called GIS (Geographic Information Systems). GIS is a term you will likely hear more and more, as it is growing in fields of work that you would least expect it, including yours. For now, let's get you signed in and acquainted with ArcGIS Online.

The layout of this tutorial is a step by step walkthrough focusing on different subjects such as signing up, managing your account and so on. There is also a bonus section if you wish to reach ahead and try something interesting.

By doing this tutorial, you will learn the basics of ArcGIS Online, what it is, how it works and how to explore it.

Quick Access

Getting started: Creating an account 3
Manage your account 6
Overview of the ArcGIS Layout and18 Tools
Time to Explore: Exploring a25 Web Map
Bonus: Using Your Skills to32 Explore On Your Own
Resources and Help33

Getting Started: Creating an Account

Step 1

In order for you to use ArcGIS Online, you must have an account. Now there are two ways in which this is accomplished. A public account and a paid organization account. As a student in this class, you will be using a paid organization account. First I will give you an overview of making a public account, one that is free for the public and gives you access to most of what ArcGIS Online is capable of (you can create this type of account even after you have completed this course). Then we will discuss the other way to create an account that gives you access to all features (see Step 7).

Step 2

Go to http://www.arcgis.com/features/

Step 3

In the top right corner you will click 'Sign In'. Once you have an account made, this is where you will be able to access the signing in portion.



Step 4

We will now go through making a public account. You will click on 'Create a Public Account'. This page also has the section for you to sign in once you have your username and password.

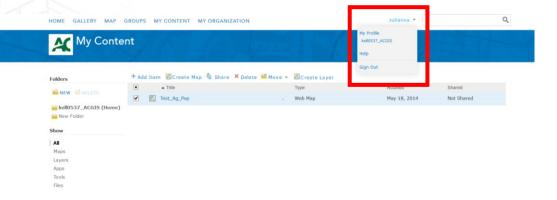
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Don't have an account?	
Sign up for an ArcGIS subscription	Username
An ArcGIS subscription allows you to set up an online mapping portal for your	(I
organization.	Password
30-DAY FREE TRIAL	
	C Keep me signed in
Not ready to subscribe?	SIGN IN
Create an ArcGIS Public Account with limits on usage.	Forgot Username or Password?
If you have an Esri Global Account, you can register it to create an ArcGIS Public Account.	Porgot Usemame or Password?
REGISTER YOUR ESRI GLOBAL ACCOUNT	
are you a student?	

Now all you have to do is fill in <u>all</u> of the information, review and accept the terms and conditions, and create your account.

Create You	r Account
Complete the form below	Osemane must be between o to
Username	characters long. May contain le numbers and only the following
Password	characters: @
Confirm Password	Password must be between 4 to
First Name	characters long. May contain le and/or numbers. May not conta
Last Name	special characters.
Organization	Organization means your emplo
E-mail	agency or school. In this case y student so you would input you
Confirm E-mail	school's name.
Phone Number	
the event you forget your pa	
Identity Question	Select a question for password recovery.
Answer	
Terms of Use	REVIEW AND ACCEPT THE TERMS OF USE
	CREATE MY ACCOUNT CANCEL

Now that you have created your account, you will be able to access ArcGIS Online. To sign out you will see your name in the top right corner. If you click on your name, you will find three options as follows: Help, My Profile, and Sign Out. By clicking 'Help' you get access to ArcGIS Online help, by clicking 'My Profile' you can see your profile (we will discuss this later), and 'Sign Out' signs you out.



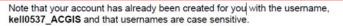
Step 7

Everyone is entitled to a free public account, however the public account does not include the use of the analysis tools. To use these tools you must have a licensed subscription that includes a certain number of credits per user. These credits are what you can use to 'pay for' your use of the analysis tools. As a student of Algonquin and a student of this course, you will be able to have access to the Algonquin Organization's allotted credits. These credits are shared between your classmates as well as with students in other classes here at Algonquin. With this being said, it is important to note that you will have enough credits to do these tutorials only two times. For more information on credits, click this link:

http://www.esri.com/software/arcgis/arcgisonline/credits

You will receive an email from ESRI notifying you that you have been invited to join, a similar email to the one below. You will follow the link in this email and follow the instructions they give you. If you have any questions or concerns, please send an email to me. My information is on the last page of this tutorial. Once you have successfully created your account, logout and then try logging back in again. Please email me confirmation that your account works or if it is not working has invited you to join an ArcGIS Online Organization, Algonquin College ArcGIS Online Organization Account. PLEASE TEST AND CONFIRM THAT YOU CAN LOGIN TO THIS ARCGIS ONLINE ACCOUNT by sending an email to

Please click this link to finish setting up your account and establish your password: https://www.arcgis.com/home/newuser.html?invitation= A86bf353af861435c829ebdab2bc1caf2



If you have difficulty signing in, please email us at arcgisonline_accounts@esri.com. Be sure to include a description of the problem, the error message, and a screenshot.

For your reference, you can access the home page of the organization here: https://ACGIS.maps.arcgis.com/home/

Manage Your Account

Step 1

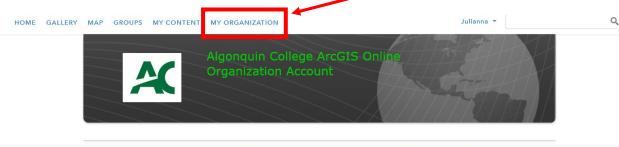
Now that you have an account you can manage it. So first, sign in (follow steps 1-3 on page 3 to see where the sign in area is). When you sign in you will be brought to the page as displayed below, the Home page.



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Step 2

Throughout this tutorial we will explore all the options on this Home page. First let's go to 'My Organization'.



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Step 3

Here you can see your classmates, i.e. anyone in your 'organization'. By clicking on their respective icon in the Action column you can choose to see their items or groups (the ones they let you see).

```
HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION
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Julianna 🔻

Algonquin College ArcGIS Online Organization Account Members Q Viewing: Current Members -Search for Name .. **▲**Name Username Last Login Role Action Username 1 Mar 26, 2014 Publisher Student 1 Publishe 303 Mar 26, 2014 Username 2 Student 2

2014

Now we will go to '	My Content'.			
HOME GALLERY MAP GROUPS	MY CONTENT MY ORGANIZATION			Julianna
Algonquin Coll	ege ArcGIS Online Orga	anization A	ccount	
Members			Ando 10 mm	
Viewing: Current Members			Search for Name	Q
	Username	Last Login	Role	
▲ Name	Oschlunic			Action
▲Name Student 1	Username 1	Mar 26, 2014	Publisher	Action

Step 5

Listed here are any layers, maps, tools, apps, and files you have made or added to your account. In this case I have a map I created called Test_Ag_Pop. Right now you may not have anything listed, but soon you will. This section of ArcGIS will allow you to keep track of and manage your content. Now let's explore what everything does.

HOME GALLERY MAP	ROUPS	MY CONTENT MY OR	GANIZATION		Julianna 👻	Q
My Conte	nt					
Folders	+ Add	l Item 🐮 Create Map 💧	ihare × Delete 🛎 Move +	Create Layer		
		▲ Title		Туре	Modified	Shared
Se NEW SE DELETE		Test_Ag_Pop		Web Map	May 18, 2014	Not Shared
ell0537_ACGIS (Home)						
Show						
All						
Maps						
Layers						
Apps						
Tools						
Files						

Step 6

In the drop down of your content, there are 3 options: view item details, open in ArcGIS for desktop (which uses the ESRI desktop software) or open in arcgis.com map viewer.

Folders	+ Add Item Create Map h Share ×	Delete Move - ECCreate Layer	Modified	Shared
<mark>≅ kell0537_ACGIS (Home)</mark> ■ New Folder Show	Test_Ag_Pop	Web Map View item details Open in ArcGIS com map viewer Open in ArcGIS For Desktop	May 18, 2014	Not Share

Below is what appears when you choose 'View Item Details'.



Access and Use Constraints

Map Contents

Agriculture (541) 1990-2010: https://imagery.arcgisonline.com/ArcGIS/rest/services/LandsatGLS/Agriculture/ImageServer USA Population Density:

Step 8

Below is what appears when you choose 'Open in ArcGIS.com Map Viewer'. We will become more familiar with this later on in this tutorial.



You can add items from the web, your computer or other applications

Folder	☐ ▲ Title	ap 💪 Share 🗡 Delete	e 🖴 Move 🔻	Create La
	W DELETE	Х Ма		Web Map
	om your computer or reference an item on the Web. On my computer	~		
Add an item f	om your computer or reference an item on the Web. On my computer Browse No file selected.	-		
Add an item f The item is:	om your computer or reference an item on the Web.	~		

Step 10

You can create a layer from an existing layer or a template; you can choose the layer from your items you added or by using a URL.

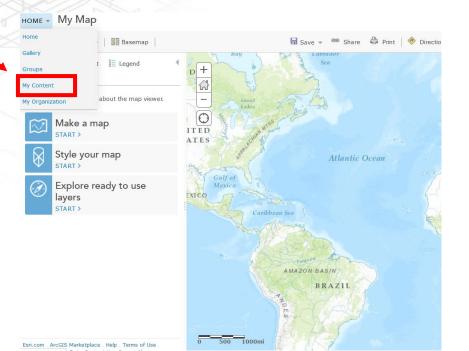
My Conte	nt	
Folders	+ Add Item 🔀 Create Map 🍐 Share 🗡 Delete 🛎 Move 👻	Create Layer
	☐ ▲ Title	Туре
kell0537_ACGIS (Home)	Test_Ag_Pop	Web Map

Creat	e Layer		×
Create a n display dat		e layer. A feature layer lets you create, e	dit, query, and
Create fea	ture layer from:	an existing feature layer	*
Ochoose	e a feature layer f	rom my items O Enter a URL to a featu	ıre layer
Item:	Select a feature	layer item	*
	🗌 Include items	in my organization	
Select the	layers to include.	Click a layer name to edit it.	
		_	
		NEXT	CANCEL

'Create a Map' will bring you to the 'My Map' section where you can create your own map. We will get to this in Tutorial 2.



To get back to the content, go to 'Home' in the top left corner and choose 'My Content'.



Step 13

You can create a new folder if you want certain layers or maps kept together. The folder with your username is your default folder.

My Conter	nt		
Folders	+ Add Item 🛛 Create Map	🍐 Share 🗡 Delete 🕌 Move	- Create
Rew Delete	Title		Туре
DELETE	Test_Ag_Pop		Web Map
📔 kell0537_ACGIS (Home)			
Create a Folder		×	
Folder Name:			
	CREATE	CANCEL	

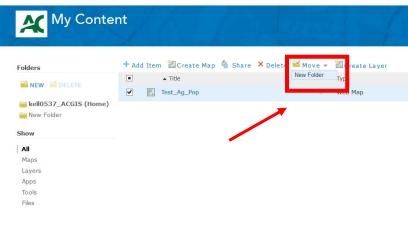
You can add things to this folder, or delete it by right clicking on it and choosing one of the options.

HOME GALLERY MAP G	GROUPS MY CONTENT MY ORGA
My Conter	nt
Folders	+ Add Item 🐮 Create Map 🐁 Sha
🖴 NEW 📓 DELETE	Title Test_Ag_Pop
kell0537_ACGIS (Home) New Folder New Folder New Folder Sho + Add Item All Delete Folder Maps Layers Apps Tools Files	

Step 15

You can move your item to a folder by clicking on 'Move' and choosing the folder you would like to move it to.

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION



If you select a layer, you will have more options enabled such as Share (We will get to this in Tutorial 2), Delete, and Move

HOME GALLERY MAP	GROUPS M	Y CONTENT	MY ORGANIZATION		Julianna 🔻
My Conte	ent				
Folders	+ Add Item	Create M	ap 端 Share 🗙 Delete ≅ Mo		
I Old CLD	- Add Aten	i indicate in	ap B bliare - Belete - No	C - Elicieate Layer	
		▲ Title		Туре	Modified
en new en delete					Modified May 18, 2014
		▲ Title		Туре	

Step 17

You can filter your items by clicking on the options under 'Show'.

HOME	GALLERY	MAP	GROUPS	MY CONTENT	MY
4	My C	ont	ent		
Folders			+ Add	Item 📶 Create	Map
<mark>ể new</mark> 🞬 delete			▲ Title		
		✓	Test_Ag_Pop		
	537_ACGIS Folder	(Home)			
Show					
Maps					
Layers					
Apps			I		
Tools					
Files					

Step 18

Now to look at your account. Your name is on the top right hand side, click on it and you will get a drop down; here you can access your profile, access help and sign out just as described earlier

My Conte	ont		My Profile kell0537_ACGIS	
~			Help	
Folders	+ Add Item Create Map 🍓 Share 🗙 De	elete 🎬 Move 👻 📶 Create Layer	Sign Out	
	Title	Туре	Modified	Shared
	✓ Test_Ag_Pop	- Web Map	May 18, 2014	Not Shared

2014

Julianna

Step 19

By clicking on 'My Profile' you can view your profile and choose 'Edit My Profile' to make any changes. N

HOME	GALLERY	MAP	GROUPS	MY CONTENT	MY ORGANIZATIO

A Julian	na Kelly
EDIT MY PRO	Julianna Kelly Write something about yourself. You might include things like: • Your organization • Contact information • Areas of expertise • Interests • Any other information you'd like others to know
	Who can see your profile? Organization
	Username: kell0537_ACGIS
	Language: English-English
	Region: Canada
	Units: US Standard
	Role: Publisher
	Organization: Algonquin College ArcGIS Online Organization Account

Organization Home Page URL: https://ACGIS.maps.arcgis.com

Step 20

By selecting 'Groups' you can access the groups page where you can create and manage groups. This is similar to an organization, but less formal and you have the control. Groups are very useful for sharing content. A group enables you to share content to specific people so that they can use or add to the information that you are collecting. It can be a great tool if you take the opportunity to use it. This is mostly used within businesses that need to share their data with specific co-workers in order to do their work. For you as a student, using this groups page is something that you would not need to use.



This is what appears after you choose 'Groups'. This is your home page for your groups.

a CREATE A GROUP		
Show	You are a member of 0 groups	Find
All My Groups Owned by Me		The organization's groups
Owned by Me Owned by Others With New Membership Requests		The organization's groups that are pub
		Featured Groups
		Canada Featured Maps
		Esri Maps and Data
		Community Basemaps
		Landsat Community
		Web Application Templates

Step 22

Now let's create a new group.

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION

My Groups	200 / Andread S
å CREATE A GROUP	
Show	You are a member of 0 groups
All My Groups	
Owned by Me	
Owned by Others	
With New Membership Requests	

Step 23

This is what appears after you select 'Create a Group'. Add your details and save your group.

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION	Julianna 🔻	Q
Groups		
SAVE CANCEL		
Name: Group Name		
Summary:		
Description :		
B I U △ - 關 - 프 프 프 = 担 Ξ ∞ ∞ ∞ ダ - メ ® ⊠ - ジ ≫ Font - Size	Ψ	
Enter the group description here		

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Step 24

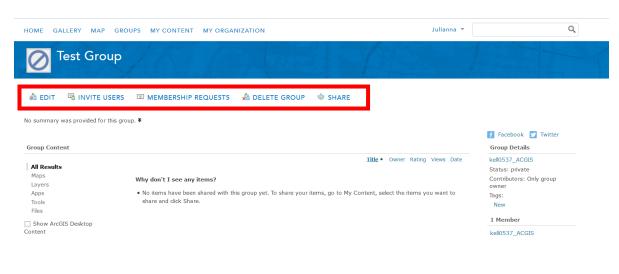
So if you have a group, when in 'My Groups' you can view your groups and filter the ones you would like to see. You can also access their details by clicking 'Details'.

å CREATE A GROUP		
how	You are a member of 1 group	Find
All My Groups	Test Group	The organization's groups
Owned by Me Owned by Others With New Membership Requests	created by kell0537_ACGIS on May 18, 2014	The organization's groups that are pub
inter inter interesting interference	Details	Featured Groups
	7	Canada Featured Maps
		Esri Maps and Data
		Community Basemaps
		Landsat Community
		Web Application Templates

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Step 25

Here you can edit your group, invite users, manage membership requests, share, or delete groups. You can also access all content that your group members have shared



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Step 26

Now let's go back to the Home page.

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION







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Overview of the ArcGIS Layout and Tools

Step 1

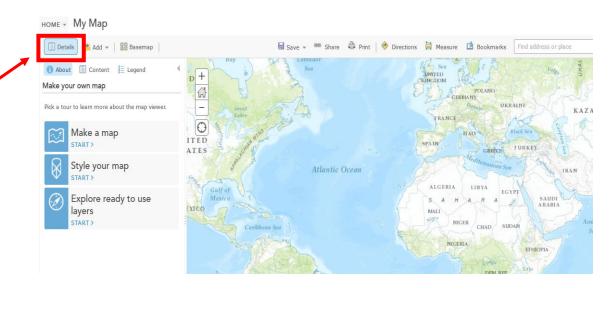
Now we will explore the layout and tools of the 'Map' section of ArcGIS Online. From the top click on 'Map'. I will be using the map I created to give you an idea what the tools show, but you can still follow along without this map.

Julianna × Q HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION

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Step 2

Details: Shows details of the map. This includes a snippet about the map, the content (data or layers) of the map and the legend.



About: Shows information about the map. In this case, the map is called 'Test_Ag_Pop' and information such as creator, modification date, and the option for more details can be seen.



Step 4

Content: This is where your layers in your map are listed. Here you can edit transparency, visibility range, perform analysis, and a few others (discussed later in this tutorial)





Step 5

Legend: The legend of the map. ArcGIS Online creates this for you.



2014

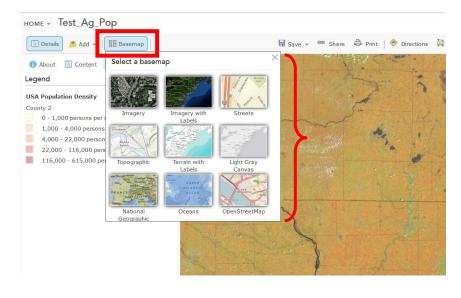
Step 6

Add: Add content to the map. You can add your own content, or content from online or in the ESRI gallery.



Step 7

Base-map: Select a base-map from the Gallery. A base-map is a basic map that you can use a basis for your layers of data. They are helpful in giving the user a reference as to what region they are looking at when deciphering your map.



Save: Save the map to your account. You will be able to save it your default folder, or if you have another folder, you will be able to choose the destination. You can manage the maps you have saved in the 'My Content' section that we looked at earlier.

номе - Test_Ag_Pop				
💽 Details 📑 Add 👻 🔡 Basemap		🔚 Save 👻 🕯	🖻 Share 🛛 🛱 Print 🔶 Direction	s 🚔 Measure 🏙 B
1 About 📳 Content 📗 Legend		Save	- Alton C. L.	English .
Legend	+	Save As	the is	1 1
USA Population Density			17 2 3 A	

Step 9

Share: By sharing you can let everyone on ArcGIS Online, your organization, your groups, Facebook, twitter and a website view your map. You can also make a web application with your map (will not be covered, see Resources on pg. 33 if interested).

HOME - Test_Ag_Pop	
🔄 Details 👘 Add 👻 📲 Basemap	🗟 Save 👻 🍩 Share 🖨 Print 🚸 Directions 🚔 Measure 🕻
About Content Legend	+
USA Population Density Zip Code	

Step 10

Print: Opens a new tab with the map so you can print it.

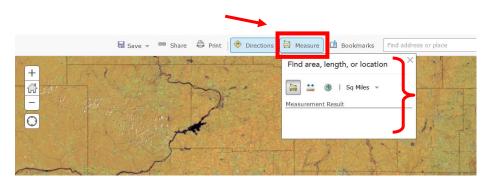
номе - Test_Ag_Pop	×	
🔄 Details 👫 Add 👻 🛛 🚟 Basemap	🗟 Save 💌 💷 Share 🖶 Print 🚸 Directions 🚆 M	leasure [
● About I Content I Legend	+	
USA Population Density Zip Code		3

Directions: Find directions. This is similar to google maps.

HOME - Test_Ag_Pop		🖥 Save 👻 📟 Sł	hare 🛱 Print	Directions	Measure	Dookmarks
Directions	+	A.	3			
Add destination Show options GET DIRECTIONS ADD AS LAYER CLEAR		- y	the second se			

Step 12

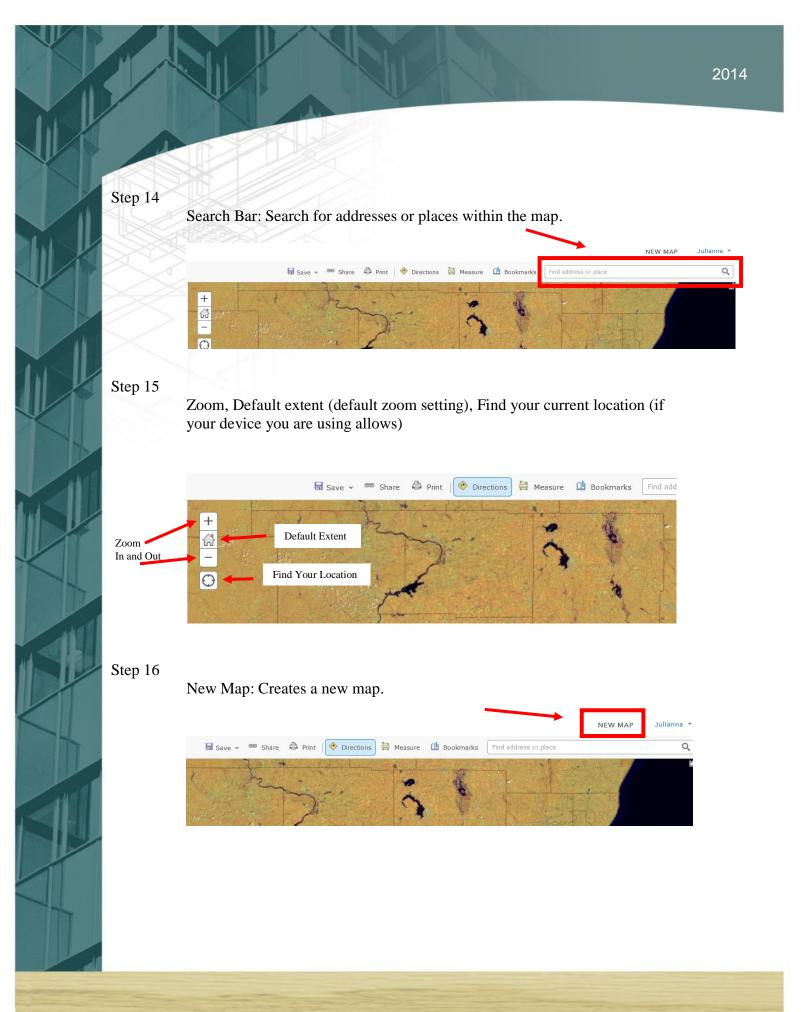
Measure: Find area, length or location.



Step 13

Bookmarks: Bookmark places. You can save a place of interest by bookmarking it. You can use this later, edit it, or delete it.

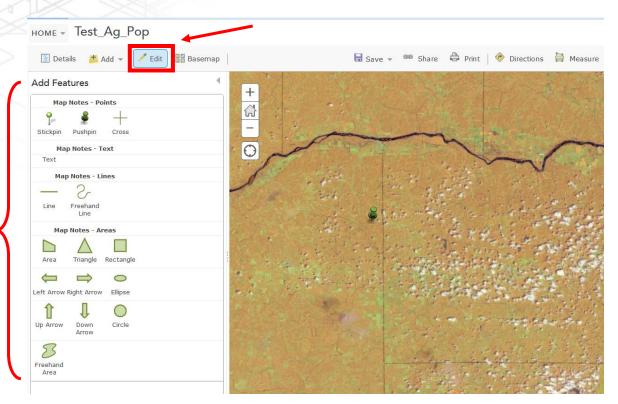
	🖬 Save 👻 🍩 Share	e 🖶 Print 🛛 🚸 Dire	ctions Measure	🔒 Bookmarks	nd address or place	2
+ - •	the second secon		1	Bookmarked plac Untitled Untitled Add Bookmark	es ×	



2014

Step 17

Edit: Appears after adding features (or map notes which will be discussed in Tutorial 2). You can add new features to your map using any of the icons below. You can also edit these features.



Time to Explore: Exploring a Web Map

Step 1

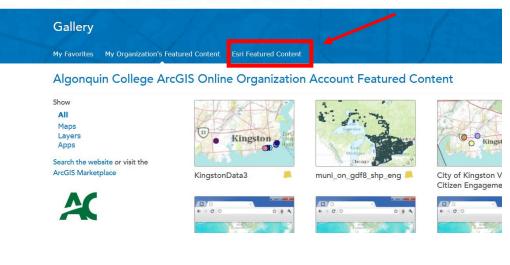
Time to explore a map, go to 'Gallery'. 'Gallery' is an archive full of maps and layers that you can use and view.

номе - Му М	Лар	
Home	Basemap	
Gallery		
Groups	t 📃 Legend	
My Content		
My Organization		
		1
		IT
		A
		G

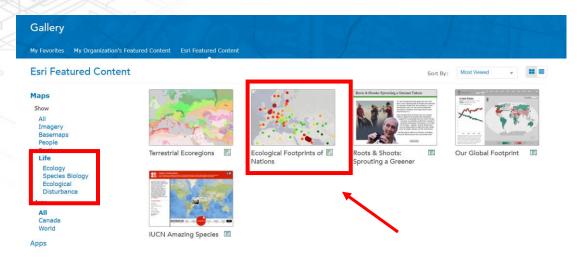
Step 2

Here is what is displayed. You will have a few options of where to choose maps from. The map we will explore is in 'ESRI Featured Content'.

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION



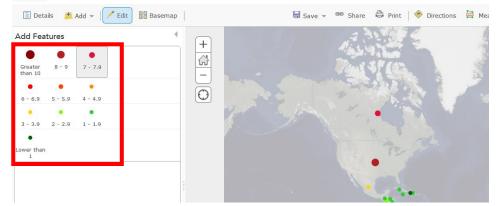
Then you will go to 'Life' and Choose the map entitled 'Ecological Footprints of Nations'.



Step 4

As mentioned earlier, you can edit features in a map by using 'Edit'. You can add a feature by selecting the symbol you desire.

HOME - Ecological Footprints of Nations

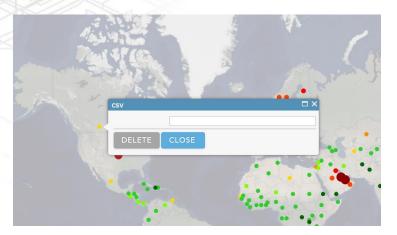


Step 5

Then you click on the map where you want the feature to appear on the map.



You can enter a name for this feature and it will be saved into the csv file of the data that is already composed.



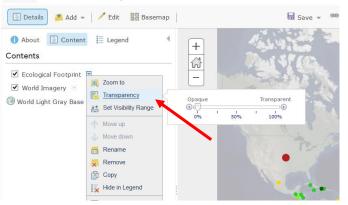
Now, if you go to the 'Content' of the map you will see the layers that are in the map. If you right-click on a layer you will see the many options you can choose in terms of your layer.

HOME - Ecological Footprints of Natio 🔄 Details 🖄 Add 👻 🛛 🦯 Edit 🛛 🔠 Basemap 🕕 About 🔚 Content 📘 Legend Contents 🗹 Ecological Footprint 🖃 Zoom to 🕑 World Imagery 🖂 Transparency World Light Gray Base 💒 Set Visibility Range Move up 🤳 Move down nename 😞 Remove 🗗 Сору Hide in Legend Remove Pop-up Configure Pop-up Change Symbols 🤞 Disable Editing Perform Analysis Show Table Description B Save Layer

Step 7

You can change the transparency of the layer, making it varying degrees of visible.

номе - Ecological Footprints of Nations



Step 9

You can also set the visibility range, only showing a layer at specific scales.

номе - Ecologic	al Footprints of	Nations		
Details 🖄 Add 👻	🖊 Edit 🛛 🔡 Basem	ap	🗟 Save 👻 🍩 Sha	re 🖶 Print 🚸 Directions 🚔 Me
Contents	E Legend C Com to C Transparency S Set Visbility Range Move up Move down Rename Rename Renove Copy S Copy S Hide in Legend	Only show this In closer than: Out farther than Map scale is 1:1		 ▲ Use Current ▲ Use Current ▲ Use Current
	Remove Pop-up		and the second	14 in 1

You can also rename the layer, remove the layer from your map, copy the layer, or hide it from the legend.

HOME - Ecological Footprints of Natio

 About Content Contents Ecological Footprint World Imagery World Light Gray Base World Light Gray Base Set Visibility Range Move down Rename Remove Copy Hide in Legend Remove Pop-up Configure Pop-up Configure Pop-up Configure Pop-up Conse Symbols Disable Editing Perform Analysis Show Table Description Save Laver 	🖹 Details 🛛 💆 Add 👻 📝 Edit 🛛 🚼 Basemap
 ✓ Ecological Footprint ✓ World Imagery ✓ World Light Gray Base ✓ Move up ✓ Move down ☆ Rename ≪ Remove ☆ Copy ※ Hide in Legend ✓ Remove Pop-up ✓ Configure Pop-up ✓ Schange Symbols ✓ Disable Editing ✓ Perform Analysis ✓ Show Table ✓ Description 	About 🗄 Content 🗎 Legend
 ✓ World Imagery ✓ World Light Gray Base ✓ Move up ✓ Move down ☑ Rename ✓ Remove ☑ Copy ☑ Hide in Legend ☑ Remove Pop-up ☑ Configure Pop-up ☑ Change Symbols ✓ Disable Editing ☑ Perform Analysis I Show Table ☑ Description 	ontents
Description	 Ecological Footprint World Imagery World Light Gray Base Set Visibility Range Move up Move down Rename Remove Copy Hide in Legend Remove Pop-up Configure Pop-up Configure Pop-up Configure Pop-up Configure Pop-up Configure Pop-up Configure Pop-up Consable Editing Perform Analysis
Gave Layer	Description

Step 11

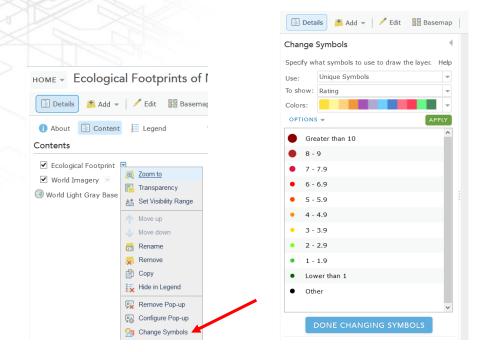
By choosing 'Configure Pop-up' you can create or edit the dialogue box that appears after you select a data point on the map.

		HOME -	Ecological Footprints	s of Na	ations	
номе - Ecological	Footprints of Na	atic 🗈 Deta	ails 🏙 Add 👻 🦯 Edit 🔡 B	lasemap		
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Step 12

You can edit the symbology of the layer, changing how the data is viewed, by selecting 'Change Symbols'.



Step 13

By Choosing 'Show Table', the table holding the data appears on the page. You can choose how you view this table by going to 'Table Options'.



Now you know the basics of ArcGIS Online. It would be wise to continue onto the Bonus and explore ArcGIS Online further on your own. Just remember that 'Performing Analysis' costs credits, so it would be wise to experiment with it after Tutorial 3.

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Bonus:

Using Your Skills to Explore on Your Own

This has been just a brief introduction on ArcGIS Online. There is so much more to learn and so much that you can do using this platform.

Using what you have learned so far, explore ArcGIS Online. Go into the 'Gallery' and research various maps. Discover the different ways you can make a map.

Then, create your own map. Explore the platform, and save all maps and layers to your account. Create a new folder in your account called 'Tutorial 1' and move all of the maps and layers you used or created into this folder for future reference.

Resources:

ESRI Website:

www.esri.com

ArcGIS Online Help:

http://doc.arcgis.com/en/arcgis-online/createmaps/make-your-first-map.htm

ArcGIS for Professionals:

http://pro.arcgis.com/en/getstarted/organizations/introduction.htm

Questions?

Don't hesitate to ask.

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