

Practical 4. Making Web Maps

This practical is designed to give you experience making, saving, and sharing web maps using ArcGIS Online.

Introduction¹

- What is a web map? <http://doc.arcgis.com/en/arcgis-online/reference/what-is-web-map.htm>
- Examples: [UJ](#) | [Earthquakes](#) | [Mpumalanga Vegetation Map](#)

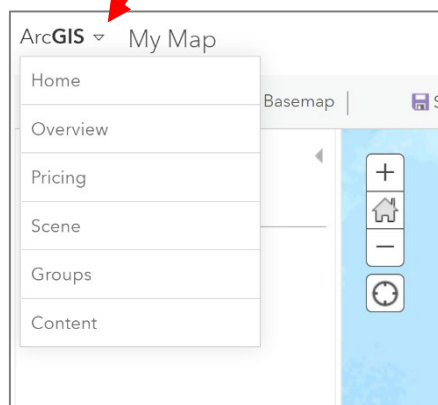
Task 1. ESRI ArcGIS Online Account

Create an ArcGIS Online Public Account

1. Click this LINK (<https://www.arcgis.com/home/createaccount.html#>)
2. Click "Enter Your Information"
3. RECORD your Username and Password.
4. Once your account has been created, your "My Profile" page will open.



5. Click Map.
6. Click the triangle to view the ArcGIS menu.



7. Click Content. This is where your maps will be saved.
8. Click the triangle to the right of your username (top right of window). Click Sign Out.
9. Partner with a classmate. Show your partner that you can:
 - a. Sign In to ArcGIS Online
 - b. Navigate to your ArcGIS Online Content folder
 - c. Sign Out.
10. Have your partner award you marks for your work.

¹ Adapted from "Get Started with Maps" <http://doc.arcgis.com/en/arcgis-online/get-started/get-started-with-maps.htm> .

Task 2. Web Map 1

Create a web map showing the location of your school.

1. Navigate to ArcGIS Online: www.arcgis.com/index.html
2. Sign in.
3. At the top of the ArcGIS Online website, click Map.
4. In Map Viewer, click Modify Map so you can add a layer.
5. In the Find Address or Place window, search for your school.
6. In the Search Result window, click Add to Map Notes
7. In Contents, click the three dots below the Map Notes text. Click rename. Enter the name of your school.
8. Click the blue icon indicating the location of your school. Click Edit. Select a new symbol for your school.
9. Click save. Enter the name of your school for the title. Add two “tags” or keywords that describe your map. Add a one sentence description of your map. For example, “This map shows the location of...”
10. Click Share. Tick the box for Everyone (public).
11. Record the URL of your map on the Practical 4 Answer Sheet.
12. Sign out.
13. Partner with a classmate. Show your partner that you can:
 - d. Sign In to ArcGIS Online
 - e. Navigate to your ArcGIS Online Content folder
 - f. Open your school map
14. Have your partner award marks for your work.

Task 3. Web Map 2

Recall the “Paper GIS” layers of data you created for Practical 3. **As a group**, with a step by step demonstration, we will create a Somerset West web map – a digital version of the paper GIS.

We will use the ArcGIS Online “Add Map Notes” tool. We will add five maps notes:

1. Somerset West Study Area (rectangle to match the tracing paper we used last week, northwest corner located at: 34°04’00”S and 18°48’00”E). We will use a website to convert DMS to DD: <https://www.rapidtables.com/convert/number/degrees-minutes-seconds-to-degrees.html>
2. Points of Interest (Sir Lowrey’s Pass Viewpoint, Tidal Pool on False Bay, Camphor Trees Monument) symbolized appropriately.
3. Residential Areas (Somerset West, Gordon’s Bay, Nomzamo)
4. Vineyards (any three large vineyards)
5. Golf Courses (any three golf courses)

We will symbolise the polygons using color. Select the colour palette in the table below.

Land Use	Symbol Colour
Residential	grey
Vineyard	yellow
Golf Course	green

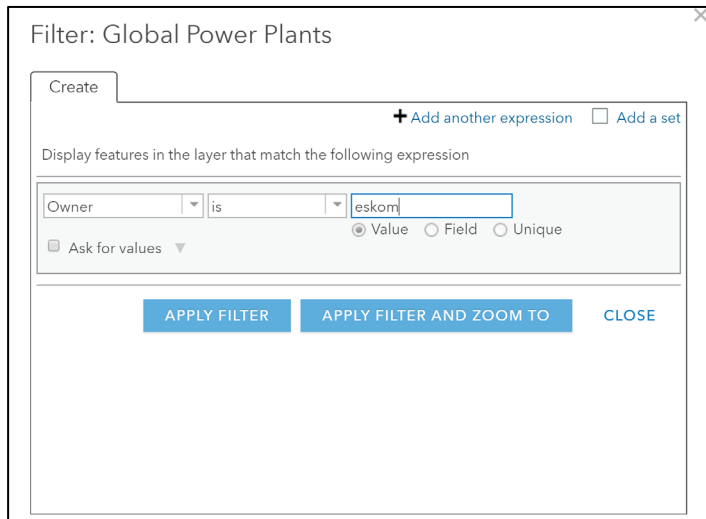
We will save and share the web map. Again, your partner will award marks for your work.

Task 4. Web Map 3

Create a map showing the location of Eskom Owned power plants in South Africa.

1. Open a new map.
2. Change the basemap to Light Gray Canvas
 - a. Basemap > Light Gray Canvas
3. Add “Global Power Plants” data layer
 - a. Add Content to Map > Search for Layers > ArcGIS Online > Global Power Plants (by JenniferBell_UO)

4. Filter Global Power Plants data to show only Eskom Owned power plants
 - a. Click the Global Power Plants layer
 
 - b. Click Filter
 - c. Owner > is > eskom > APPLY FILTER

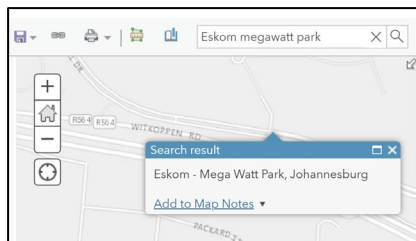


5. Rename Global Power Plants

- a. Click More Options
 
- b. Rename > Eskom Power Plants

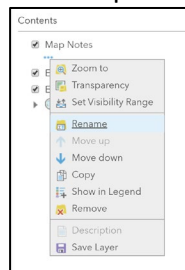
6. Add Eskom Megawatt Park Map Note

- a. Find Address or Place > Eskom Megawatt Park > Add to Map Notes



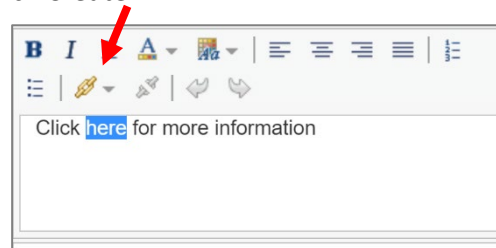
7. Rename Map Notes

- a. Click Map Notes > Rename > Eskom Megawatt Park



8. Edit Eskom Megawatt Park marker popup

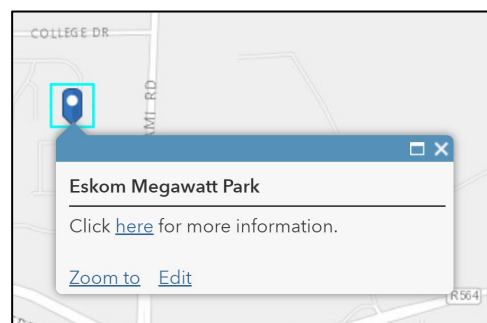
- a. Click the map note marker > edit
- b. Change Title to Eskom Megawatt Park
- c. Add Description "Click here for more information"
- d. Add link
 - i. Highlight the word "here" in the description.
 - ii. Click Create Link



- iii. For URL, Copy/paste the link below.

http://www.eskom.co.za/OurCompany/CompanyInformation/Pages/Directions_To_Megawatt_Park.aspx

- iv. Click Set. Click CLOSE. Click the marker to preview popup.



- v. Close the popup.

9. Save your web map.

10. Share your web map as "public".

11. Record your web map URL on your Practical 4 answer sheet.

12. Your partner will award marks for your work.