# **ArcGIS Online Exercise**

Mapping Average Market Rent in Hamilton over time

#### Overview and Learning Objectives

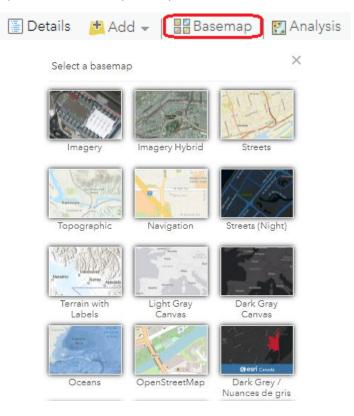
This exercise will introduce the ArcGIS Online platform through the creation of a simple map showing Average Market Rent in Hamilton between 2014 and 2018.

#### Intro to Map Viewer

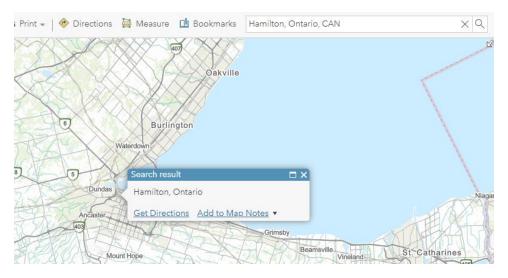
- 1. Sign into ArcGIS Online https://www.arcgis.com/index.html.
- 2. Click the "Map" button in the menu along the top.

Home Gallery Map Scene Notebook Groups Content

- 3. If prompted, select the "Classic" map viewer.
- 4. Select a basemap from the Basemap Gallery.



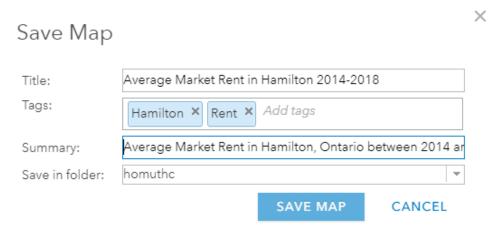
5. Search for Hamilton, Ontario using the search box or zoom to the area.



- 6. Save this view by creating a new bookmark.
  - Bookmarks > Add Bookmark > Type in name > Enter.

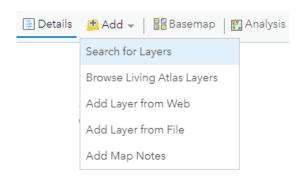


7. Save your map (tags and summary are required).



## Search and Add Data Layers

- 8. Search for average market rent in Hamilton.
  - Add > Search for layers.



- Switch from My Content to ArcGIS Online.
- Search for "AVG\_MARKET\_RENT" and hit Enter.
  - o To learn more about a particular dataset (author, description, etc.) click on the dataset title.
- Add (+) the "AVG\_MARKET\_RENT\_2014\_2018\_HAMONT" dataset by "homuthc\_McMaster".



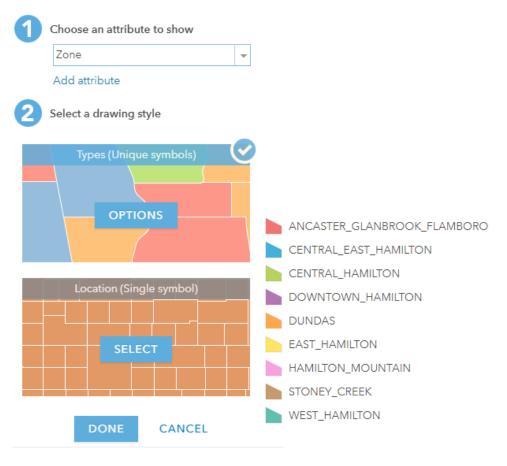
- 9. Return to the Details tab.
- 10. Explore the attribute data by clicking on different areas.
- 11. Save your map.

#### Symbolizing Features by Category

- 12. The data is currently a uniform colour. To change the symbology (appearance) of the data:
  - In the content menu, click on the Change Style button.



• Choose to display the Zone attribute as Types (Unique symbols).



- Select "Options" to change the labels, symbol, and transparency.
- Once finished, click "OK", followed by "Done".
- 13. Save your map.

### Symbolizing Features by Value

- 14. Return to the Change Style menu.
- 15. Choose to display the Rent attribute as Counts and Amounts (Colour).
- 16. Select "Options" to change the colour ramp, classification, and transparency.
- 17. Once finished, click "OK", followed by "Done".
- 18. Save your map.

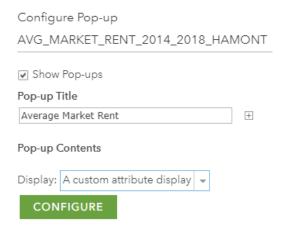
What are some advantages and disadvantages of displaying the data in this way?

What other information might be useful?

## Configure Pop-Ups

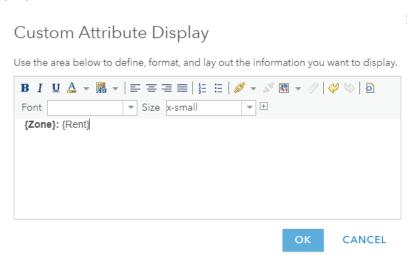
- 19. The pop-up windows display a default list of attributes. To change the pop-up content:
  - Click the three dots next to the dataset, followed by "Configure Pop-up".

- Enter a Pop-Up Title: Average Market Rent
- Under Pop-up Contents, choose "A custom attribute display" and click "Configure".



• By clicking the + symbol in the Custom Attribute Display box, you can add fields from the attribute table. Labels or headings can be typed in.

How items appear in the Custom Attribute Display window is how they will appear in the pop-up window.



• Click "Ok".

### Save and Share Your Map

- 20. Save your map!
- 21. Click the Share button to view the available sharing options.
  - Choose how widely the map is to be shared.
  - Copy the URL to the map to share with others.
  - From here you can also choose to copy the code to embed the map in a website or Storymap or create a web app incorporating this map.

#### Part 2. Create a Web App Showing Changes in Rent Over Time

#### **Time Settings**

The Average Market Rent data is time-enabled and includes a column for the year. To create a simple web app showing changes in rent over time, first configure the time settings.

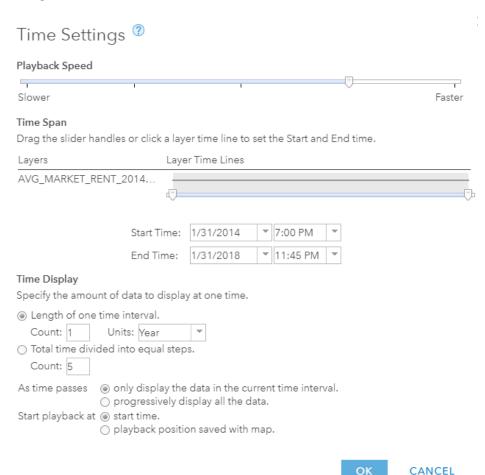
#### 1. In the time slider:

Click the configure button.



- Choose the desired Playback Speed.
- Click show advanced options and select the time span and time display.

This data includes annual values for 5 years, starting at the beginning of 2014 and ending in 2018.



- Click "Ok".
- 2. Save your map and test out the time slider using the controls.

## Create a Web Application

- 3. Click "Share", followed by "Create a Web App" to see the available options.
- 4. Select the Slider Instant App and choose "Create Web App".



#### Slider

Visualize and interact with temporal and numeric data using animation tools



CLOSE

- 5. Enter a title, tags, and summary and click Done
- 6. Follow steps in express editor.
- 7. Publish map.
- 8. Launch, review, and make any necessary edits.

#### Additional Resources

Learn ArcGIS - <a href="https://learn-arcgis-learngis.hub.arcgis.com/">https://learn-arcgis-learngis.hub.arcgis.com/</a>

ArcGIS Online documentation - <a href="https://www.esri.com/en-us/arcgis/products/arcgis-online/resources">https://www.esri.com/en-us/arcgis/products/arcgis-online/resources</a>

Data Analysis Support Hub (DASH) - <a href="https://library.mcmaster.ca/services/dash#tab-dash-resources">https://library.mcmaster.ca/services/dash#tab-dash-resources</a>

#### Sources

Open Hamilton – Average Market Rent dataset

https://open.hamilton.ca/datasets/98824662da7a45c3b855de914702b48c\_3