

Tutorial Overview

In this tutorial, you will learn how to create an ArcGIS Dashboard using data on ArcGIS Online or data that you have collected using a survey (Survey123).

If you do not have ArcGIS Online accounts for yourself or your students, you can request them here: k12.esri.ca. Student accounts can be requested only by an adult (age 18 and over).




Part A: Explore existing dashboards

Before you begin to build your own dashboard, explore some that have already been created using ArcGIS Online and ArcGIS Dashboards:

- [B.C. Wildfire Dashboard](#): created by British Columbia Map Hub
- [Coronavirus COVID-19 Global Cases](#): created by Johns Hopkins University
- [COVID-19 Canadian Outbreak Tracker](#): created by Esri Canada
- [Canadian NHLers](#): created for CTV News

Part B: Create a web map


In this part of the tutorial, you will create a web map using a data layer from a tree survey. These data were provided by a high school teacher from Brampton, Ontario who conducted fieldwork with his class.

1. Go to www.arcgis.com and sign into your ArcGIS Online account. Click on **Map** to open the *Map Viewer*.
2. Choose **Add > Search for Layers > My Content > ArcGIS Online** and type in the search window “arcscanada tree” to find the layer called **Tree Survey DSSS 2019** by *EsriCanadaEducation*. Click  to add the layer to your map.
3. Click  to return to the *Content* section.
4. Click the **Basemap** button and select the **Imagery Hybrid** basemap.
5. **Save**  your map.



Part C: Create the dashboard and add elements

In this part of the tutorial, you will use data from the tree survey to create a dashboard. You will add three elements to highlight the tree survey data.



1. From the *Map Viewer*, click  **Share > Create a Web App > ArcGIS Dashboards**. Give your dashboard a title. Click **Done**.
2. The *Dashboard Builder* will open with your map. In the top left-hand corner of the map (see screenshot), click **Configure**.
 - a. Under *Settings*, enable Pop-ups, choose a Line scalebar, and Zoom In/out.
 - b. Under *General*, add a **Title** “Tree Survey Location - David Suzuki Secondary School in Brampton, Ontario, 2019”
 - c. Click **Done**.



You will see your map now has the corresponding elements.



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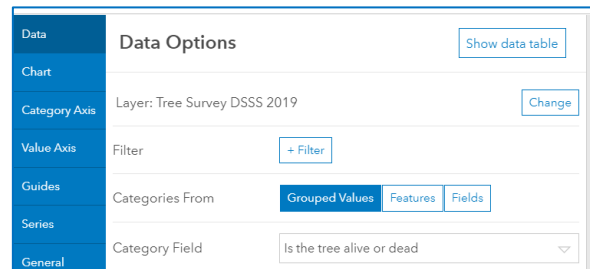
- In the top right-hand corner of the page, click   to see a list of elements that can be added. Select **Indicator** for the first element. Select the layer **Tree Survey DSSS 2019**.



- Under *General* > Go to *Title* click **Edit** and type “# of Trees Surveyed”
- Click **Done**.

- Add a **Serial Chart** as your second element. This will show if a tree is alive or dead.

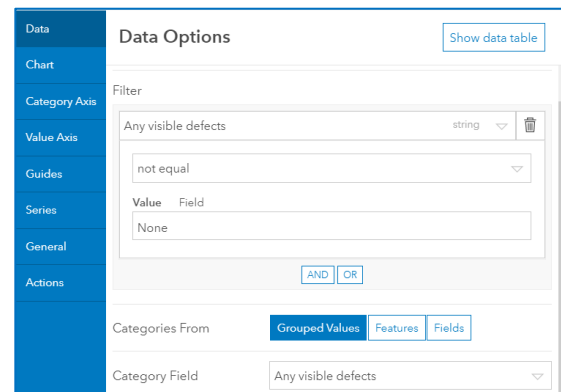
- Under the *Data*, change the *Category Field* to **Is the tree alive or dead**.
- Under *General*, change the *Title* to “State of the Tree”
- Under *Series*, change the bar colours to *By Category*, and select appropriate colours for “Dead and Alive.”




Note: You can use the *ColorBrewer* web site to select your colours. <https://bit.ly/2K6o9Co>

- Click **Done**.





- Add another **Serial Chart** as your third element but this time select the *Category Field* **Any visible defects** and create a filter to remove all the “None” results. See the steps on the screenshot to the right. Make the *Title* “*Tree Defects.*” Change the bar colours.

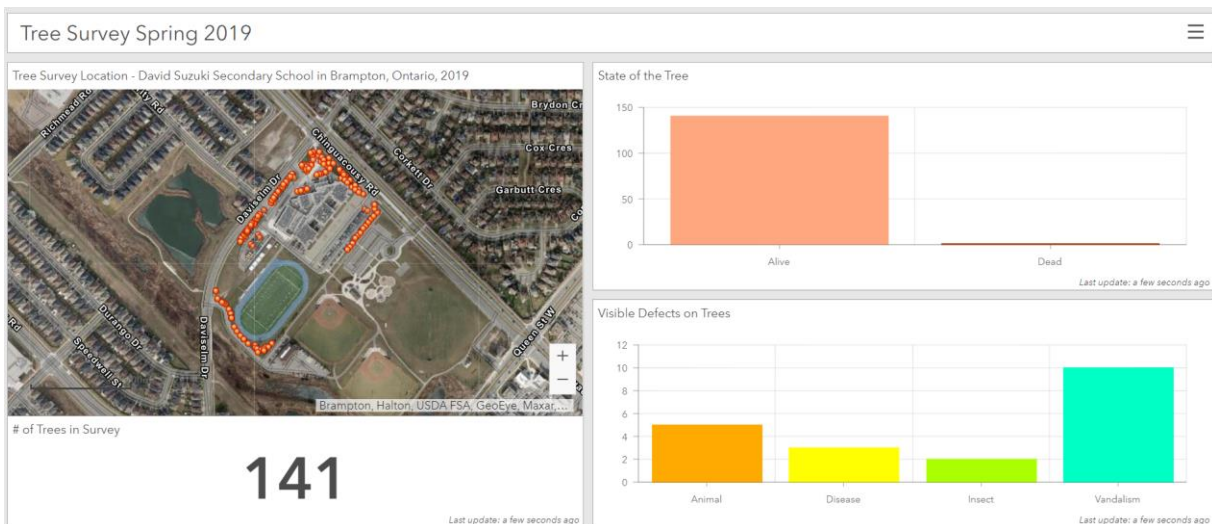


- To change the layout and rearrange the elements on your dashboard, hover your mouse over an element and click and hold **Drag Item** . Drag the element to a new spot on the dashboard and release the mouse button when the hint text changes from *Drag to new position* to text that includes *Dock as* (such as *Dock as a column*). Repeat this with all elements until you are satisfied.



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- If you would like to make colour changes to the dashboard layout, go to the **Dashboard Settings** . From here you can change layout options that include the *Element Background* colour or *Dashboard Background* colour.
- Save**  your dashboard when it is completed.
- To **Share** your dashboard, click  and copy the *Share Link*.
 - By default, your dashboard is private. If you would like to share your dashboard with the organization, a group or publicly (this will allow people without an ArcGIS Online account to view and interact with it), click **Home**  **Home > Dashboard Item Details > Share >** make your choice for the sharing level.



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