Create ArcGIS Dashboards

esri Canada

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 "arccanada tree" to find the layer called **Tree Survey DSSS 2019** by *EsriCanadaEducation.* Click ⊕ to add the layer to your map.

Tree Survey DSSS 2019
by EsriCanadaEducation
Updated: 2020-04-09

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**.

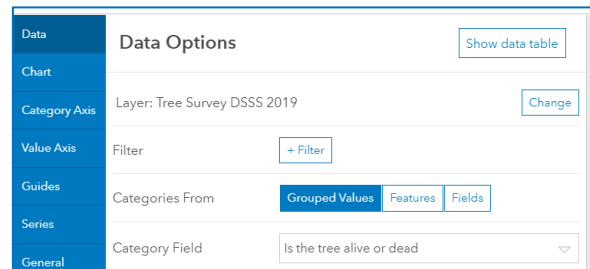You will see your map now has the corresponding elements.

3. 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**.

   a. Under *General* > Go to *Title* click **Edit** and type "`# of Trees Surveyed`"

   b. Click **Done**.

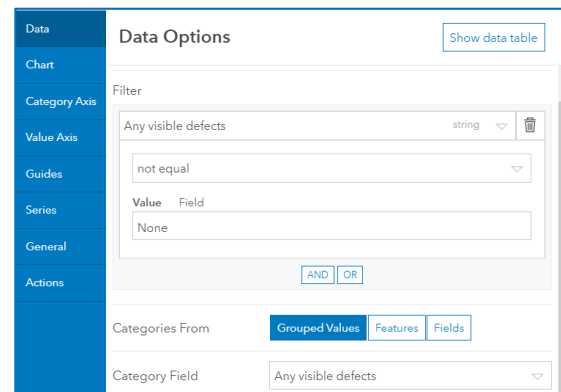4. Add a **Serial Chart** as your second element. This will show if a tree is alive or dead.

   a. Under the *Data*, change the *Category Field* to **Is the tree alive or dead**.

   b. Under *General*, change the *Title* to "`State of the Tree`"

   c. 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

   d. Click **Done**.

5. 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.
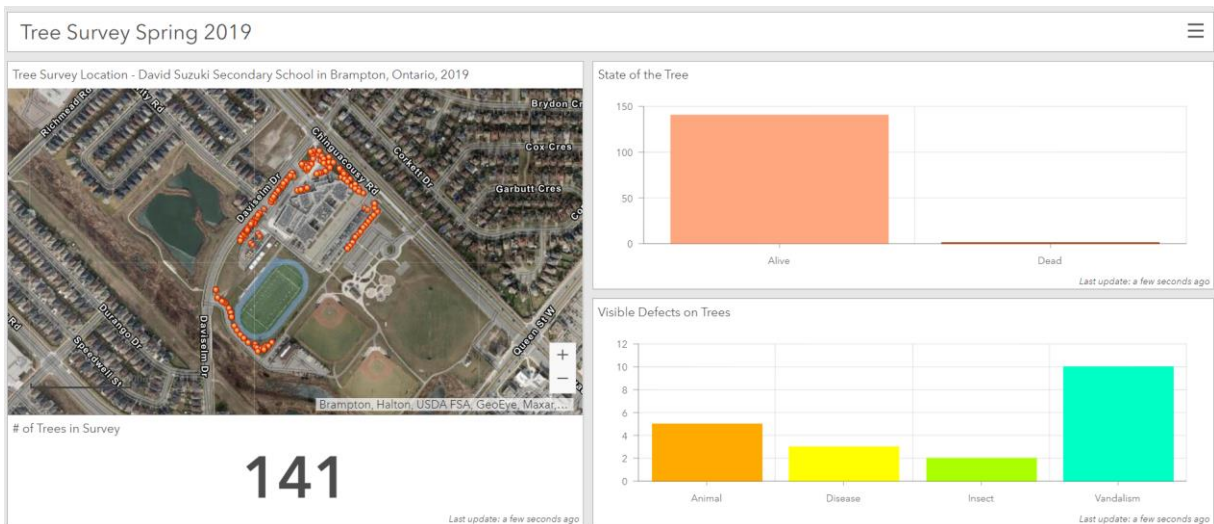
6. To change the layout and rearrange the elements on your dashboard, hover your mouse over an element and click and hold **Drag Item** ✛. Drag the element to a new spot on the dashboard and release the mouse button when the hint text changes from *Drag to new position* to text that includes *Dock as* (such as *Dock as a column)*. Repeat this with all elements until you are satisfied.

7. 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.

8. **Save** 💾 your dashboard when it is completed.

9. To **Share** your dashboard, click Home ▽ **Home** > **Dashboard Item Details** > **Share** > make your choice for the sharing level. Sharing your dashboard publicly will allow people without an ArcGIS Online account to view and interact with it.

    a. To help people access your dashboard, share its link by copying the URL or by clicking on the social media buttons.