IOWA STATE UNIVERSITY
Extension and Outreach

GIS
Training and Services

**Geospatial Technology
Training Program**
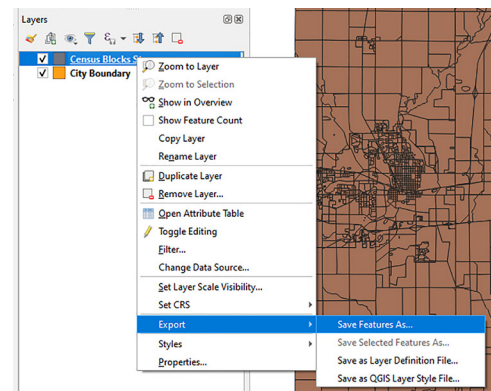
QGIS: Exporting Data Layers with QGIS2Web

QGIS 3.10

Welcome to the Essential QGIS Tasksheet Series. This series supplements the Iowa State University Geospatial Technology Training Program short course series. The tasksheets are designed to provide quick, easy instructions for performing mapping tasks.

In this tasksheet, you will use the qgis2web plugin to generate a web map from selected project layers. Exported web map files make use of the styles and extent of the project and may utilize either the OpenLayers Leaflet or Mapbox GL JS mapping API's, so there is no need to utilize server-side software.

1. Getting Started

a. For this taksheet, you will make use of a shapefile containing census block data and city boundaries. This data is available from http://isueogtp.github.io/GISTaskSheets/TaskSheetData/PM2082-20k.zip Download the data and add to a new QGIS project.

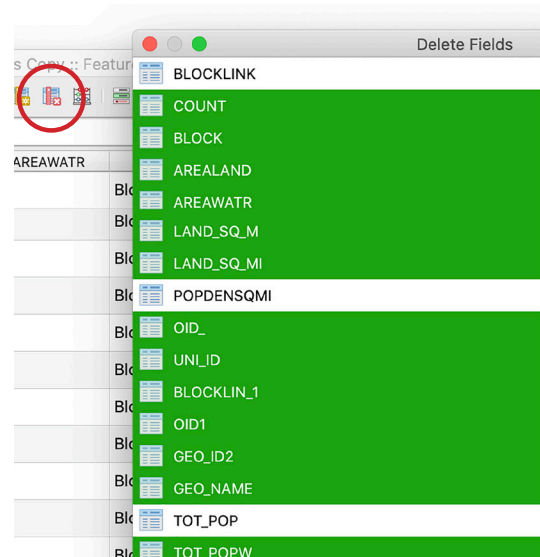b. Rename the **storyCountyCities** layer to **City Boundary**.
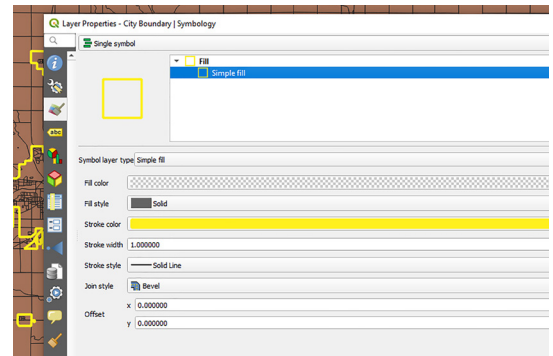

2. Editing Attributes

a. Open the **table attributes** for the **Census Blocks Story** layer and note that there are forty columns of data. While it is possible to make a web map of this data layer as it is, it is recommended to **make a copy** of the layer, and delete all the fields not needed.

b. Make a copy by right-clicking on the **Census Blocks Story** layer name and choosing **Export** -> **Save Feature As...**

c. Save Vector Layer as window opens leave the Format as Shapefile, for File Name type **Total_Population**, click **OK** to save the file, and add the new version back to the project.

d. Open the **attributes** for **Total_Population**. Enable editing by clicking the **Pencil** icon next click the **Deleted Field** icon at the top of the table. A window listing the field will be displayed. Select all those that should be deleted and press **OK**. For this example, just the **BLOCKLINK**, **POPDENSQMI**, and **TOT_POP** fields were kept.

e. Click the **toggle editing mode pencil** icon again to disable editing, and **save** your edits when prompted. Close the attribute table when finished.
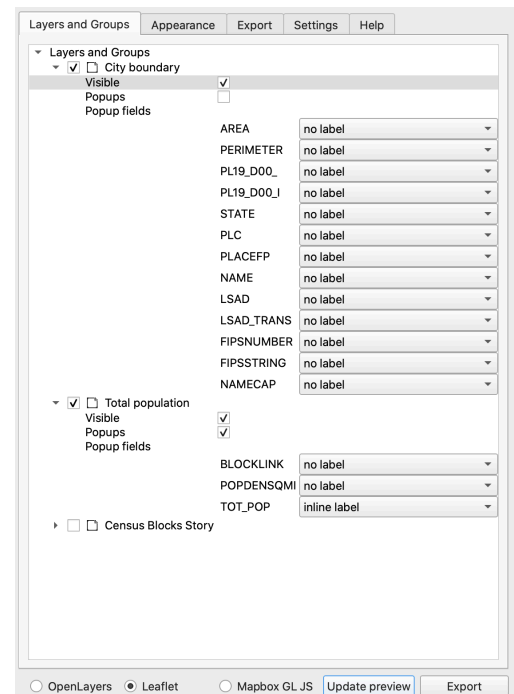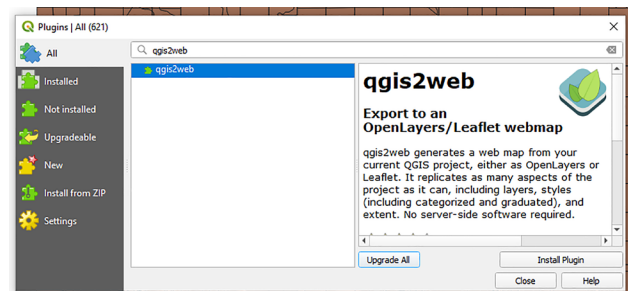
f. Style the **Total Population** layer using a **Graduated Gray** color ramp to show the **TOT_POP** values.

g. Style the **City Boundary** layer to be a **one mm yellow outline**.

3. Web Map Plugin

a. From the **Plugins** menu, select **Manage and Install Plugins**. Then look for **qgis2web** and **install** or update it and close the plugins window.

b. An icon for **Create web map** 🍃 will be added to the tool bar. Make sure the Story County Cities and Total_Population layer are turned on, then select this icon.

c. The Layers and Groups tab will be displayed. Here you can turn on and off which layers to display. Uncheck the **Popups** for **City Boundary**. Total population is also visible, but the popups should be enabled. Notice there are three fields available. Set the **Tot_Pop** field to be an **inline label** and the others to be no label.

d. Select the **Update preview** button. If you mouse over the preview map, a popup showing the attributes for the census block will be displayed. *Notice: that the Blocklink and Population Density values remain in this popup. If this is undesirable, you will need to delete the field from the attribute table as was done with the other fields. You can also change the display form no label to inline if you want to keep the fields.*

e. Before exporting the map, switch to the **Appearance** tab and note that **Add abstract** is set to upper right. This will add a layer toggle to the map.

f. Optionally **check** the **Highlight on hover** and **Show popups on hover** boxes then **Update the preview**.

g. Select the **Export** tab and select the directory where you want he web map to be created. Once exported, you can add this directory to your website and link to the index.html file.

h. For more information on customizing the exported web map see the tasksheet *QGIS: Customizing QGIS2Web settings* **PM2082-20...**.

Contact:

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