

## ACCOLEDS 2018 – QGIS and DMTI @ UBC Library

### Data: [bit.ly/ubclib-accoleds](http://bit.ly/ubclib-accoleds)

Start **QGIS 2.16 with GRASS** either from the Desktop, or Windows Explorer

1. [Open the ACCOLEDS QGIS Project File \(.qgs\)](#)

Click the folder in the tool bar → navigate to the folder **ACCOLEDS-QGIS** → open file **accoleds-project.qgs**

2. [View Layer Properties](#)

In the Layer Panel, right-click the title of the **city\_boundary** layer → select “Properties”

3. [Change the Boundary Width](#)

In Layer Properties, select the tab for “Style” → Change the line width to **1.26**

*You should see a change in the thickness of the boundary line*

4. [Add the Local Delivery Units Layer](#)

In the Side Toolbar, click the “Add vector layer” button → browse to **accoleds-data < dmti\_ldu\_shp < van\_ldu.shp** → open file

*You should see a new layer named “van\_ldu”*

5. [View the LDU Attributes](#)

In the Layer Panel, right-click on the **van\_ldu** layer → select “Open Attribute Table”

*You should see the layer’s attribute table*

6. [Style Your Map with Attribute Values](#)

In Layer Properties, select the tab for “Style” → at the top, change “Single symbol” to “Graduated”

In the “Column” menu, select “rando\_val”

In the “Color ramp” menu, select your choice of color ramps

Click “Classify”

Click “OK”

*You should see the features on your map change colors*

7. [Add Dissemination Areas](#)

In the Side Toolbar, click the “Add vector layer” button → browse to **accoleds-data < city\_d\_areas < city\_d\_areas.shp** → open file

In the Layer Panel, click and drag the layer so that it is listed on top

## 8. Union Dissemination Areas and Local Delivery Units

In the top menu, click “Processing” and select “Toolbox” from the dropdown menu

In the Processing Toolbox, search for “union” → select **SAGA Polygon uunion**

For Layer A, select **van\_ldu**

For Layer B, select **city\_d\_areas**

For Union, type “union”

Click “Run”

*You should see a new layer “union” with an extended attribute table*

## 9. Download “Dissolve with Statistics” Plugin

In the top menu, click “Plugins” and select “Manage and Install Plugins...” from the dropdown menu

Select “All” in the left panel

In the plugins search text area, type “Dissolve” and select “Dissolve with Statistics” from the results

Click “Install Plugin” in the bottom right

Click Close when the plugin has finished installing

*You should see a new menu option in the “Vector” menu dropdown → “Dissolve with Statistics”*

## 10. Dissolve LDUs in DAs

In the top menu, click “Vector” and select “Dissolve with Statistics”

Choose layer to dissolve: **union**

Choose dissolve field: **DAUID**

In the list of fields below, scroll down to **rando\_val** and select “Mean” for the stat to calculate

Select “Browse” and save the output file as **final\_map** in the “accoleds2018” folder

Click “OK” and wait (about 3 minutes).

## 11. Style New Layer using Mean “rando\_val”

In the Layer Panel, right-click on the **final\_map** layer → select “Properties”

At the top, change “Single symbol” to “Graduated”

In the “Column” menu, select “rando\_val”

In the “Color ramp” menu, select your choice of color ramps

Change “Classes” to 3

Click "Classify"

Click "OK"

*You should see a new choropleth map using your newly calculated fields*