ArcGIS Pro

Module 2 - Authoring and Publishing a Map

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Goals

- Learn to create a map project that includes a legend, scale bar, an inset map, a title and a north arrow
Making a Map

1 - using the Windows menu search programs option, type in “ArcGIS Pro”

2 - select ArcGIS Pro from the list of Programs

3 - click on “Open another project”

4 - click on “Browse”

5 - find in the location “C:\users\MDW###-PAF\Documents\ArcGISProWorkshop\modules\Module 02 - Making a Map.aprx”

6 - click on “OK”
Making a Map

A map of population density in the City of Toronto by neighbourhoods will appear. We want to show the City’s most densely populated neighbourhood and also include an overview map of the city along with traditional map elements such as a scale bar, north arrow and a legend.
1 - in the “Contents” pane, turn off the “Topographic” base map

2 - under the “Map” menu, select “Bookmarks” and click on the “Downtown Toronto” bookmark
New Layout

1 - using the “Insert” menu, select “New Layout” and select the “Tabloid 11 X 17” option

2 - again under the “Insert” menu, select “Map Frame” and click on “Downtown Toronto” bookmark

Your map of Toronto should appear in your layout
Adding an overview map

Now that we have a layout for our map with a main map inserted, we also want to add an overview map

1 - using the “Insert” menu, select “New Map”

2 - in the new map “Map1”, select the “View” menu and click on the “Catalog Pane”

3 - in the “Catalog”, navigate to the “data” → “Neighbourhood_boundaries” → “UTM6” folder

4 - click and drag into the map, the “NEIGHBOURHOODS_UTM6.shp”
1 - turn off the “Topographic” base map
1 - click on the “Layout” tab

2 - using the “Insert” menu, select “Map Frame” and select “Map1” that we just created

“Map1” will appear in a similar state and location in your layout as in this image
1 - making sure your “Map1” frame is selected, resize and move the frame to the top left corner of the “Map” area

2 - click on the “Layout” menu and click on the “Fixed Zoom Out” until you can see the entire outline of the city of Toronto in your “Map1” frame
Extent Indicator

1 - click on the “Map1” frame

2 - under the “Insert” menu, select “Extent Indicator” and choose “Map Frame”

You should now have an extent indicator of your main map laid out on your overview map
Adding a North Arrow

1 - click on the initial “Map” frame by clicking on it in the layout (not the tab)

2 - using the “Insert” menu, select the “North Arrow” option and select an arrow

3 - move the arrow to the bottom left of the map
Adding a Scale Bar

1 - click on the “Scale Bar” option and select the “Scale Line 1 Metric” scale bar

2 - move the scale bar to the bottom right of the map
Modifying the Scale Bar

1 - right-click on the scale bar and select “Properties”

2 - in the “Format Scale Bar” popup, change the “Label Text” to KM and change the Divisions to “2” and Subdivisions to “5”

3 - adjust the size of the scale bar on the map to show only “2 KM”

4 - move the scale bar just between Leslie Spit and the Toronto Islands
Adding a Legend

1 - click on the “Legend” option in the “Insert” menu area

2 - draw a rectangle in the frame

3 - adjust the size of the legend and move it to the bottom right of the layout
Modifying the legend

1 - click on the “Map” tab

2 - in the “Contents” pane, rename the neighbourhoods layer to “Toronto Neighbourhoods” and “Population_2016 / NEIGHBOURHOODS_UTM6.area” to “2016 Population Density”

3 - click on the “Layout” tab and examine the “Legend”. Your legend should now reflect the changes made in the “Map” tab.
Adding a map title

1 - in the “Insert” menu, click on “Aa Symbol”

2 - Select “Title (Sans Serif)”

3 - Draw a box on your map where you want to insert the text of the title and type in the title of the map.
Saving your map

1 - click on the “Project” menu
2 - click on “Save”
3 - click on the back arrow to return to your project
Exporting/Sharing a Map

1 - under the “Share” menu option, select “Layout”

2 - select a resolution and a format for your exported map

3 - select a location where you wish to export your map

4 - click “Export”

5 - Exit out of ArcGIS Pro
View your exported map

1 - in Windows, navigate to the location where you exported your map

2 - double-click on the file to view the image of the map
END