



ICIMOD

# Empowering Women in Geospatial Information Technology

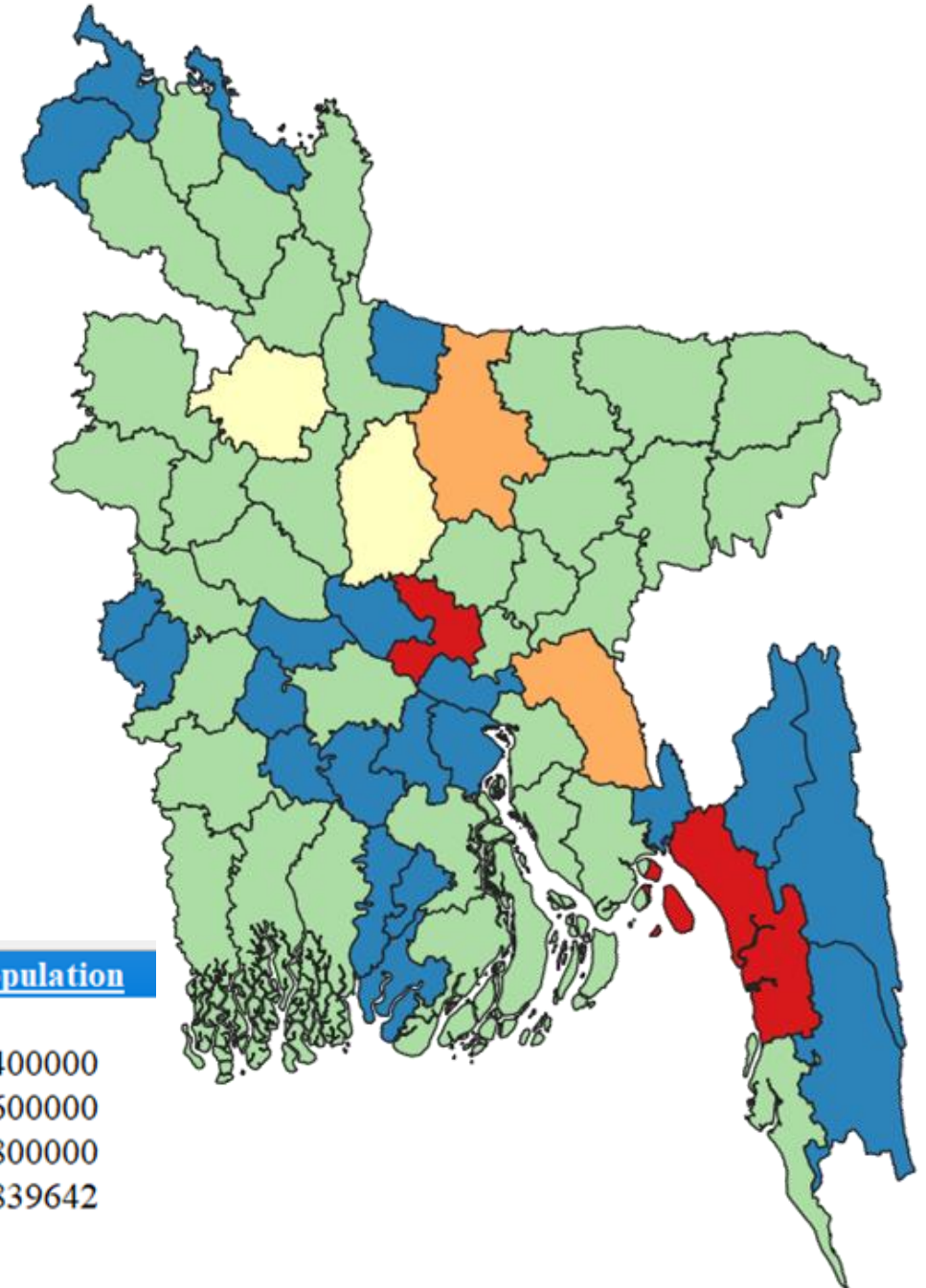
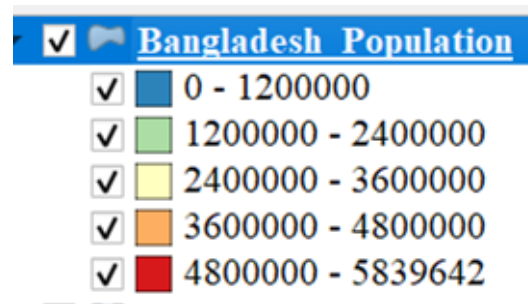
Map production

Poonam Tripathi




# Map production in QGIS

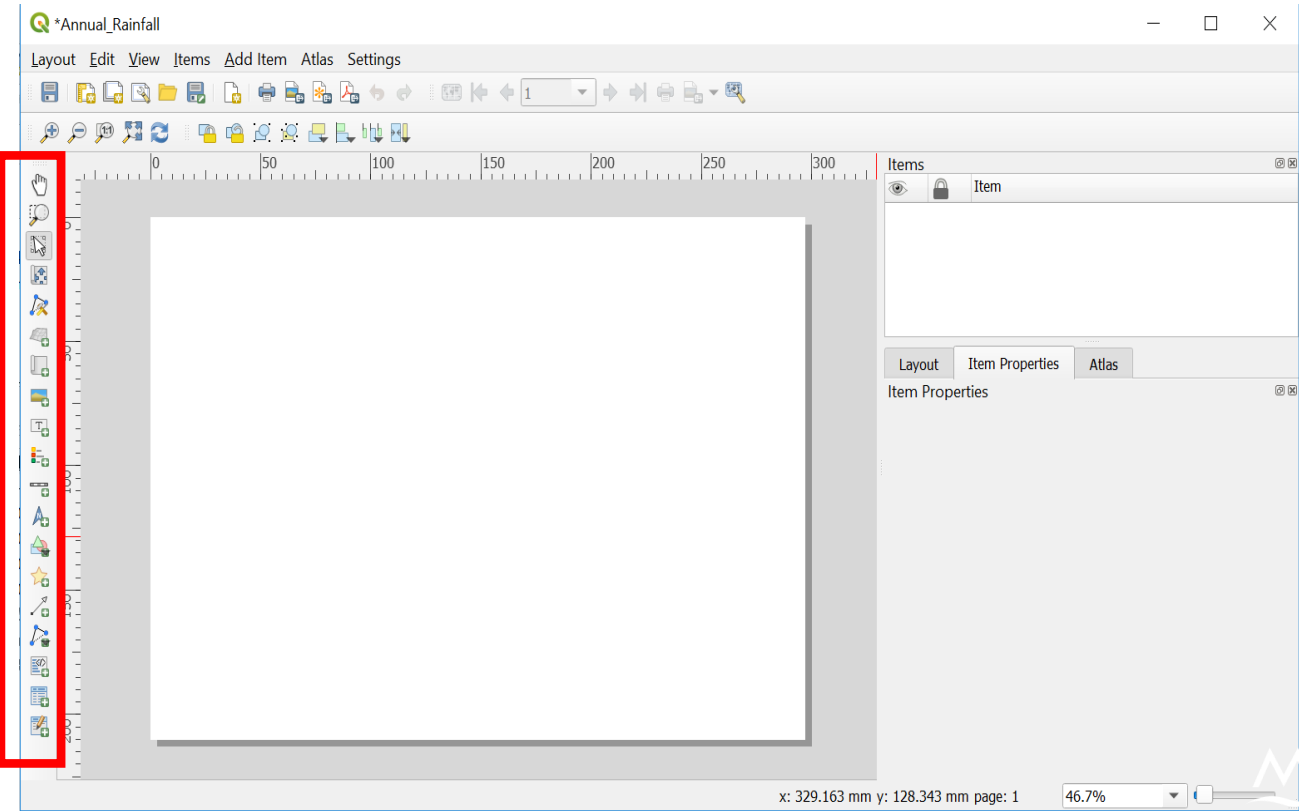
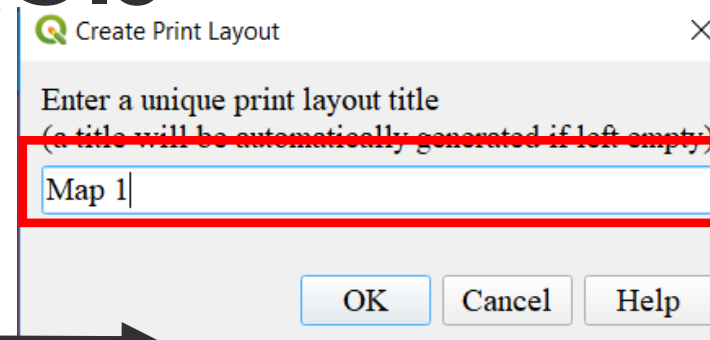
- Open the **Bangladesh\_Population.shp** file in QGIS from the folder **Day1 \Exercise 1**
- Select and edit the **Symbology** for the field you want to display in the Map  
(In this case **Pop\_1991**)



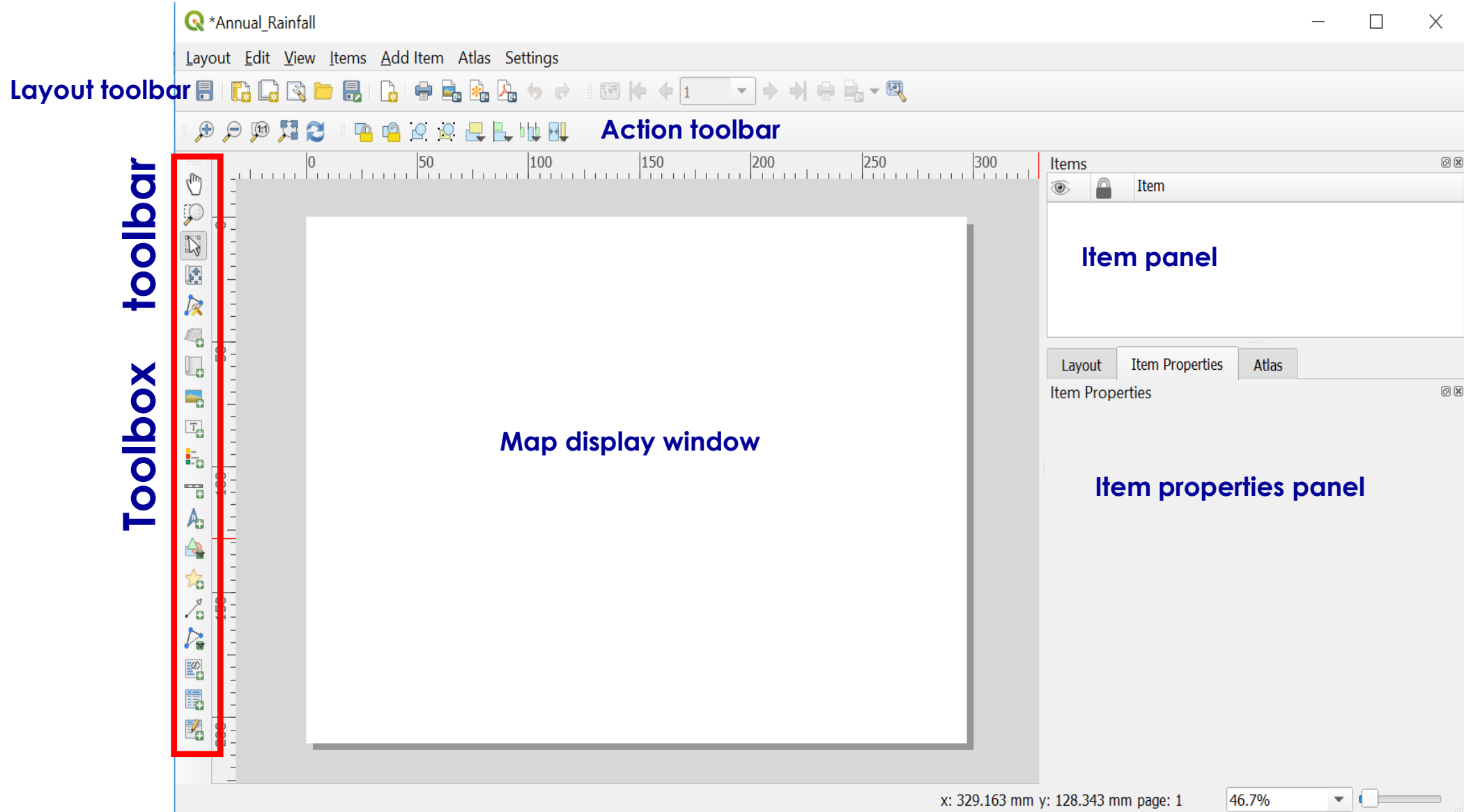
# Map production in QGIS

- Click on the **New Print Layout** icon 
- A window **Create print layout** will appear
- Enter the title in the window and click **OK**
- A new **print layout** window opens


Toolbox toolbar

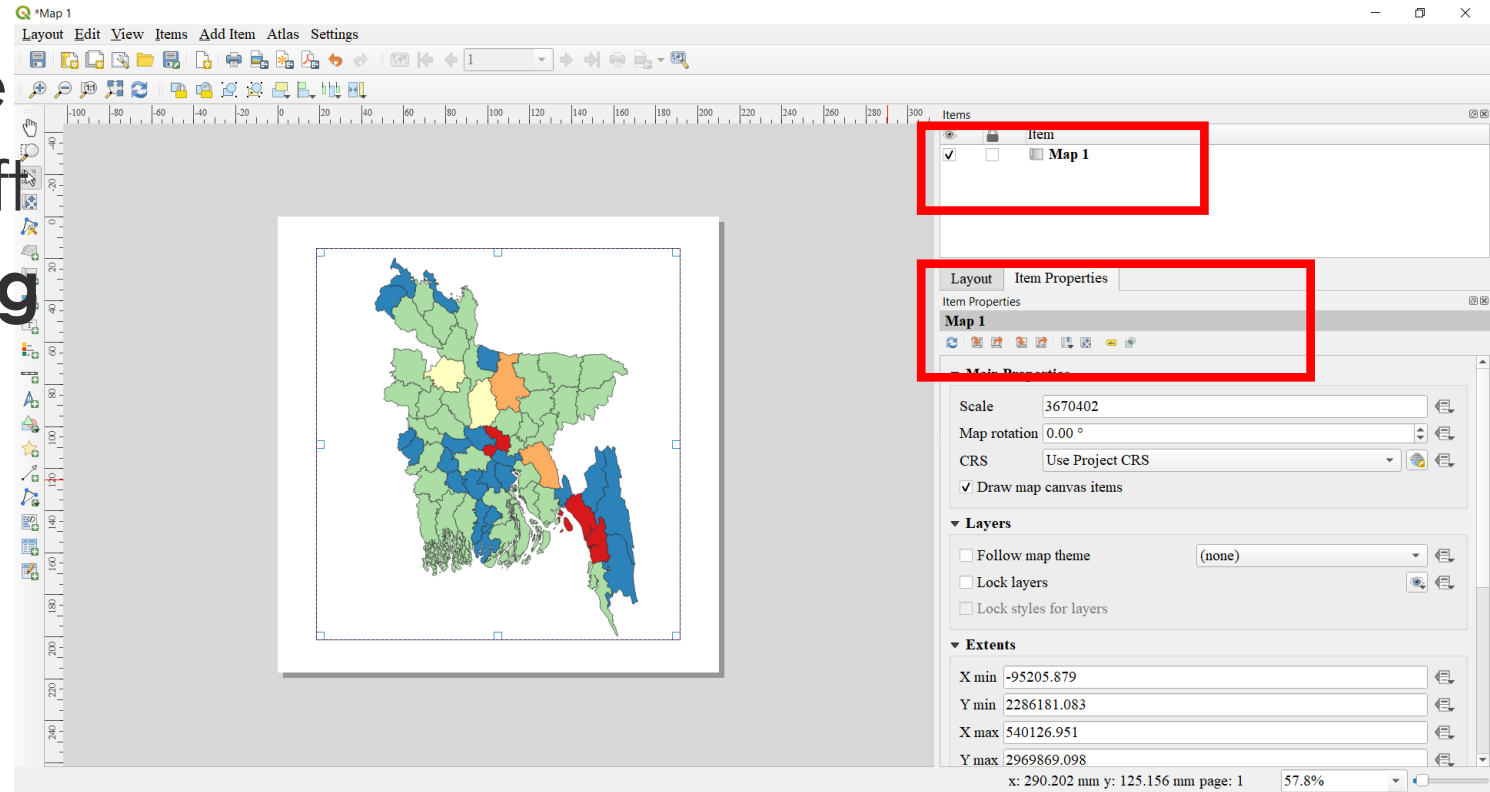


# Map production in QGIS



# Map production in QGIS

- Click on the **Add map** icon  from the toolbox toolbar
- A **+** sign arrow follows your mouse
- Place the mouse on the upper left corner of the print layout and **drag** towards lower right corner
- The map appears on the print layout screen
- Under the Item panel you will be able to see **Map 1** and **Item properties**



# Map production in QGIS

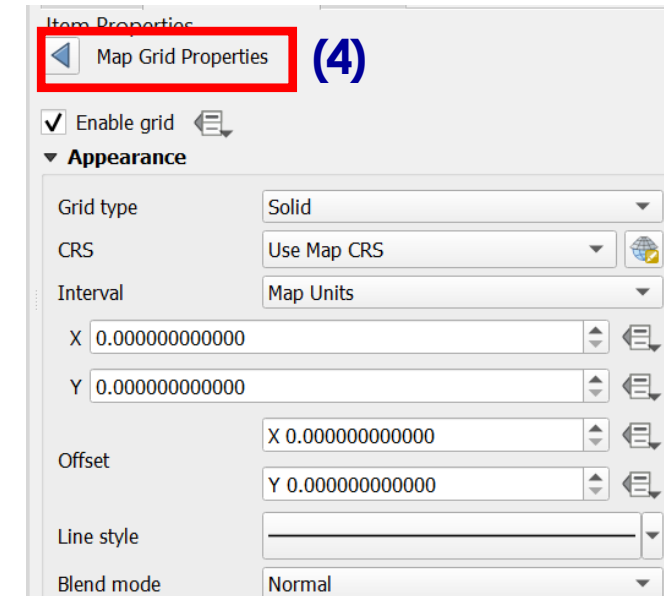
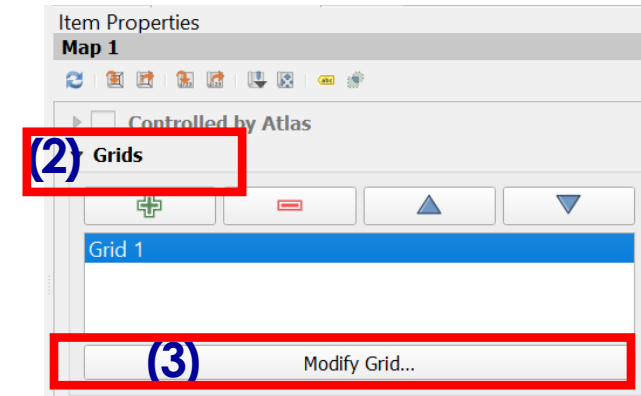
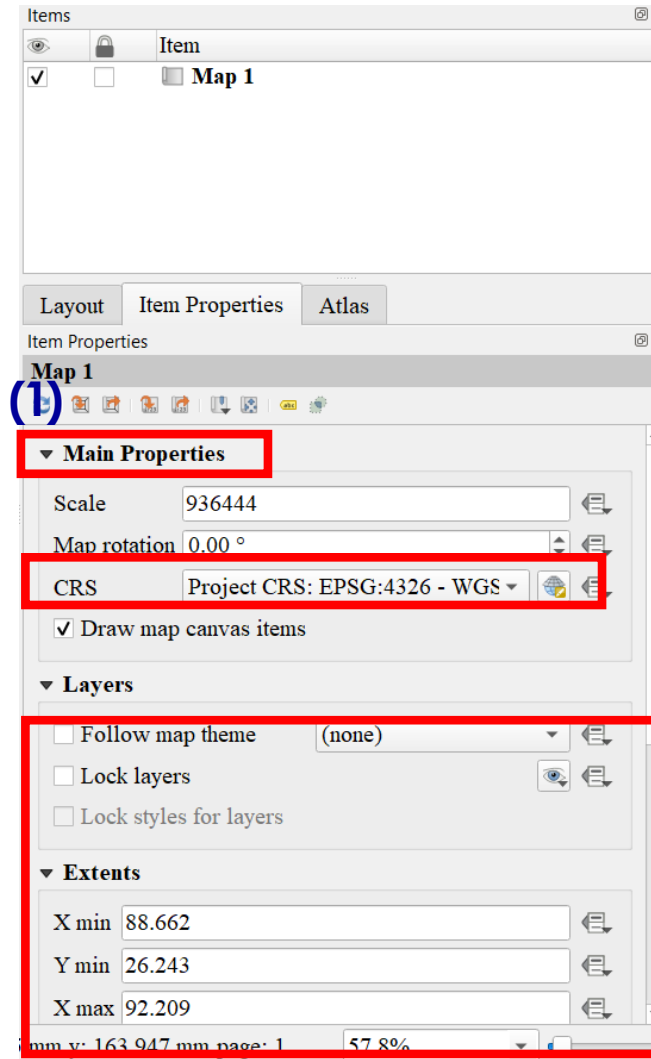
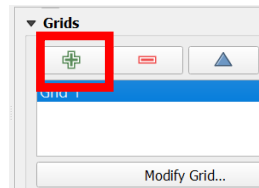
1. Under the **Main Properties** drop down the arrow under **CRS** and select **Project CRS: EPSG:4326-WGS 84**

➤ You will observe the extent is displayed in **lat/long**

2. Scroll down the Item Properties -> click on the **Grids** -> + sign

3. Click on **Modify Grid**

4. The Map Grid Properties will appear



# Map production in QGIS

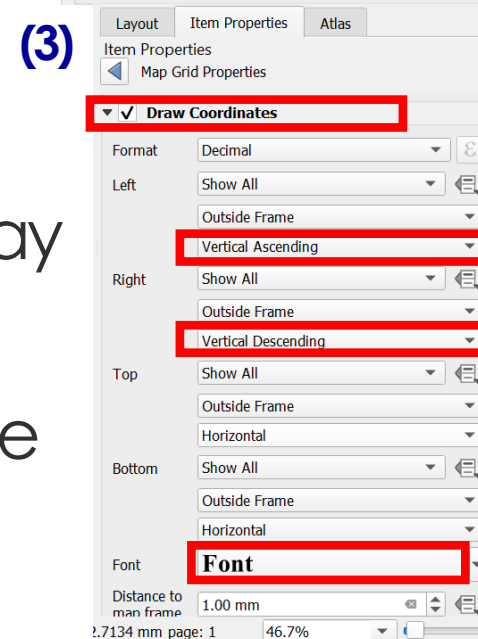
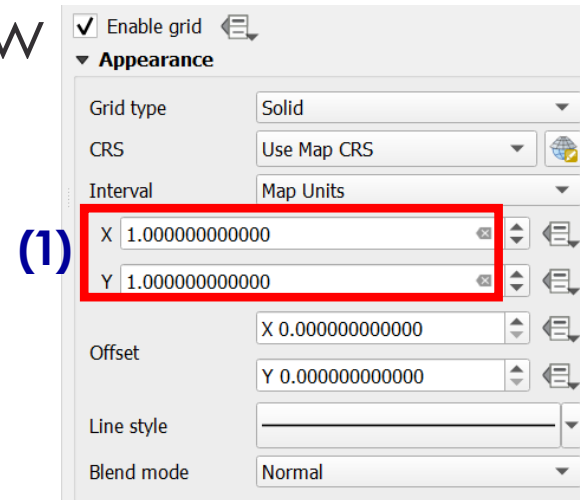
1. Set the **X** and **Y** values as **1** below  
**Interval**

2. Grids appear on the Map,  
change the properties

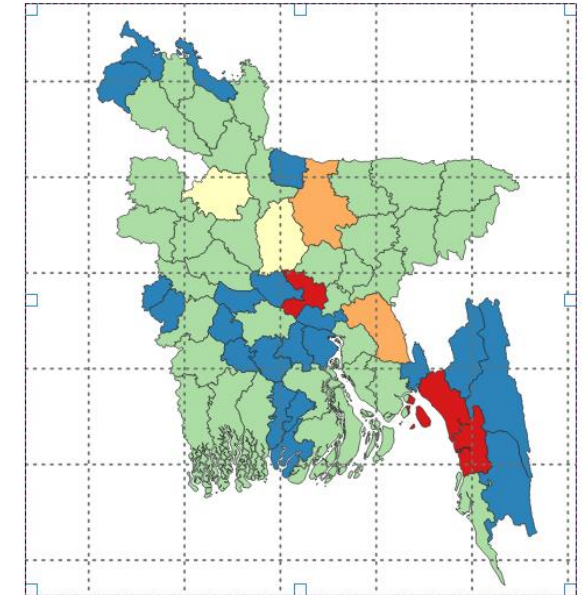
3. Scroll down the Map Grid  
Properties -> click on **Draw**  
**Coordinates**

➤ Change the **Left** and **right** display  
of Coordinates

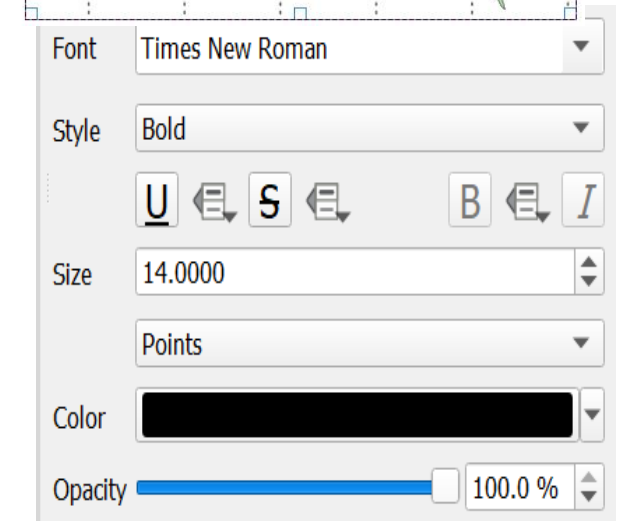
4. Change the **font** properties of the  
coordinates



(2)



(4)





# Map production in QGIS

5. Set the **coordinate precision** as 0
6. Coordinates appear on the Map

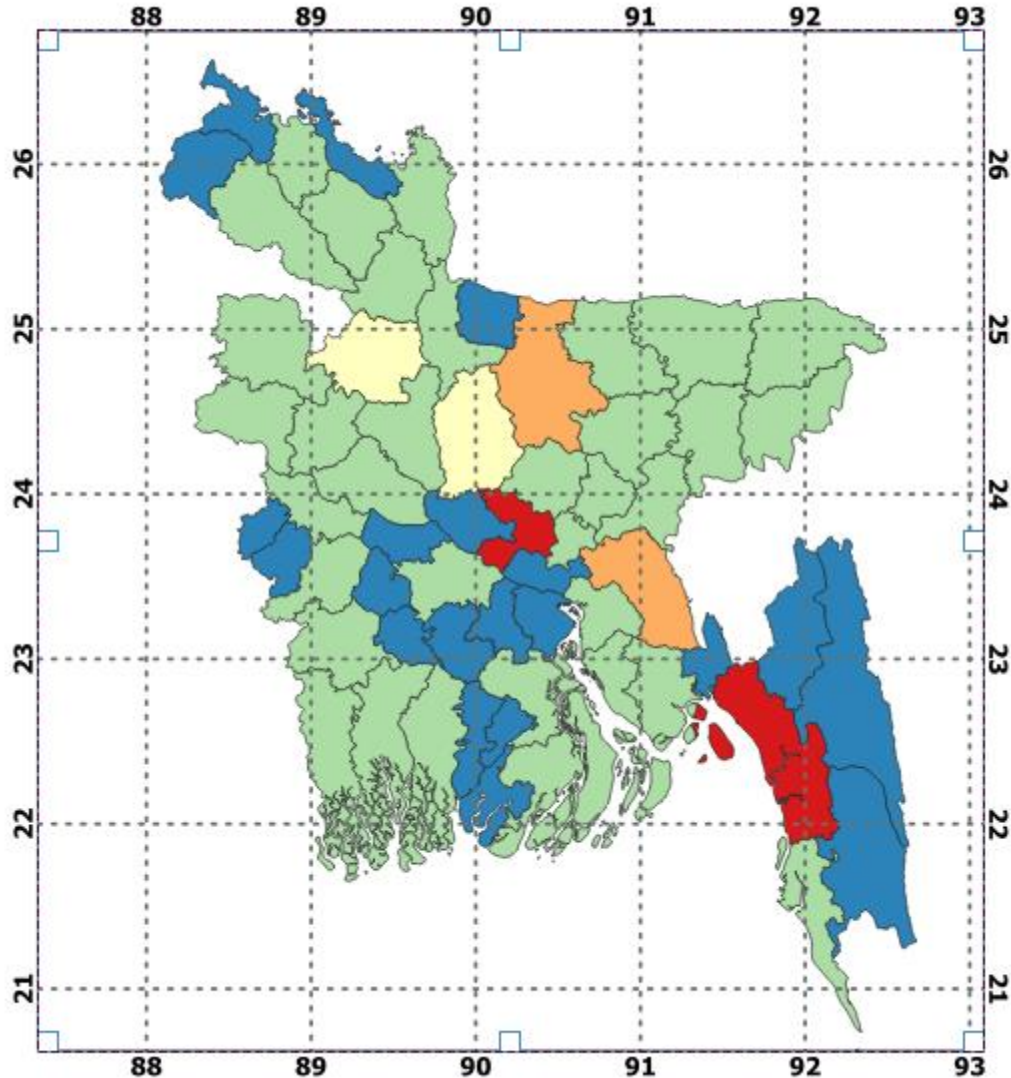
(5)

Font

Distance to map frame

Coordinate precision

(6)





# Map production in QGIS

1. Click on the **Frame** to add the frame of the Map and edit the properties i.e. Color, Thickness etc.

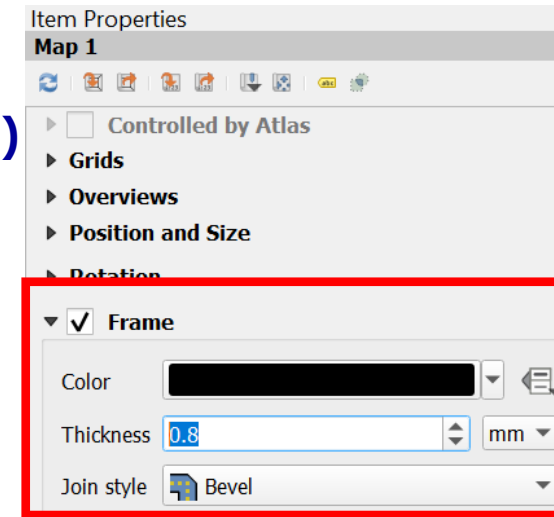
➤ Click on the icon  Adds a new Legend to the layout

2. Place the mouse on the screen and drag down to place legend

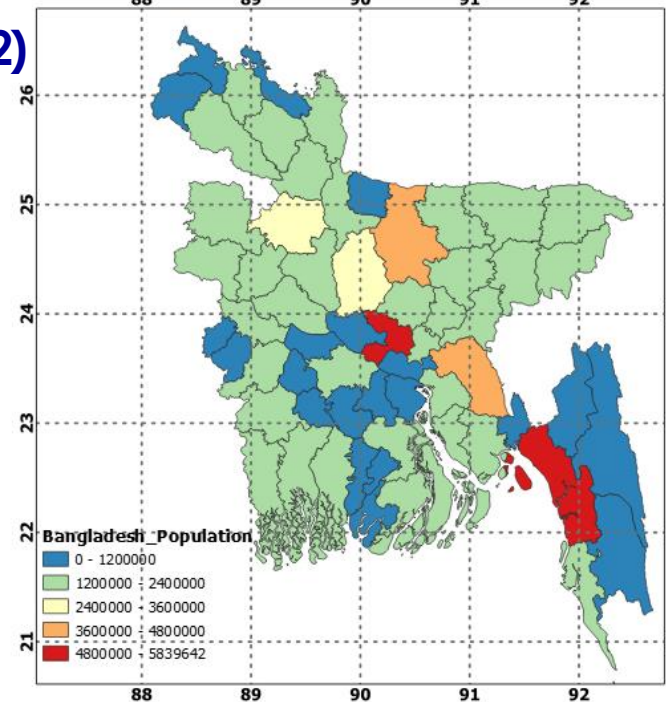
➤ The Legends appear on the print layout screen

3. Under the Item panel you will be able to see Legend

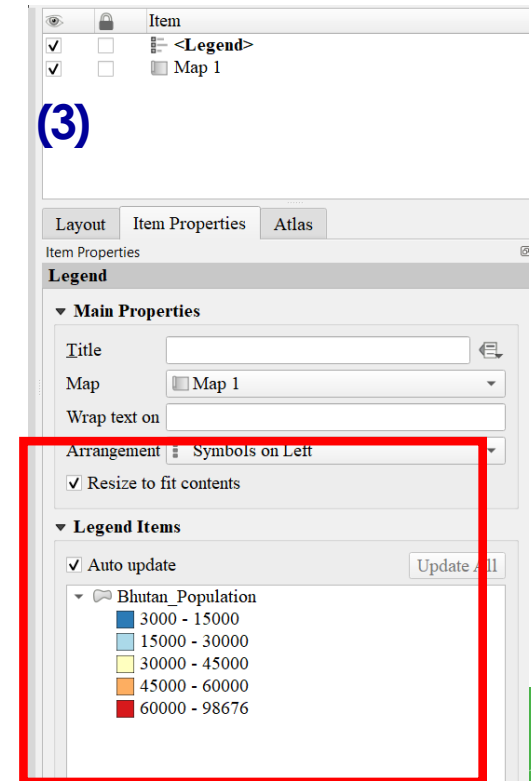
(1)



(2)

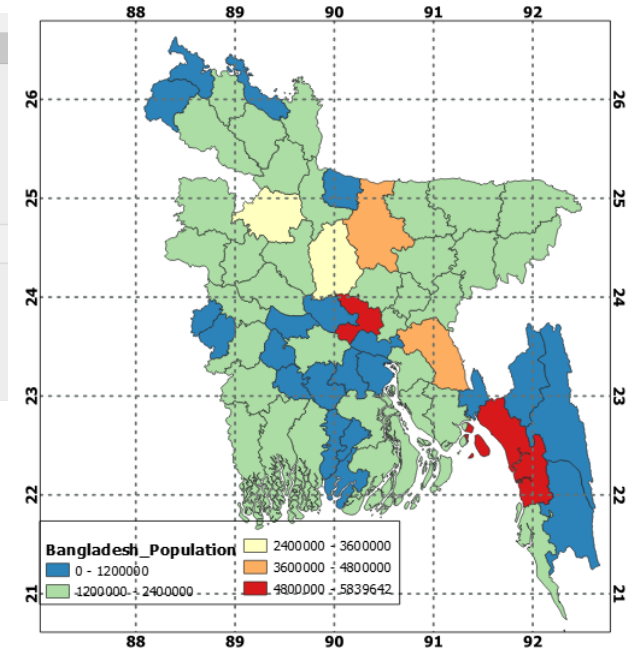
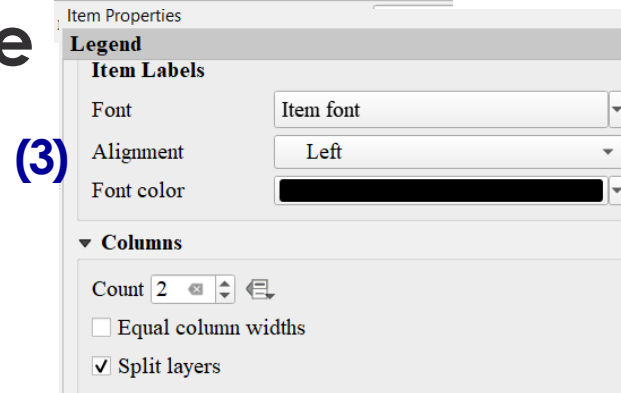
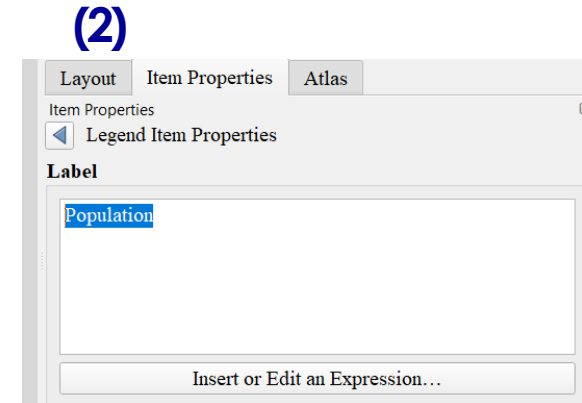
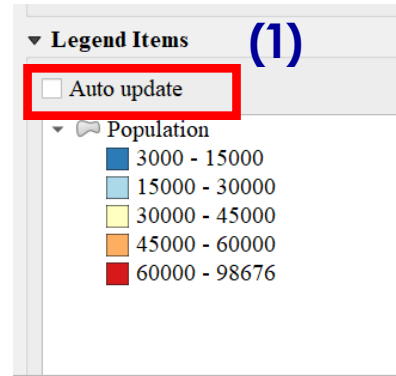


(3)




# Map production in QGIS

1. Uncheck the **Auto update** box
2. Double Click on the **Legend Title** and edit the name
  - Check the box **Only show items inside linked map**
  - Click **OK**
3. Edit the font and text properties from Font and Text Formatting option
  - Scroll down and click on **Columns** select **count** and check **Split layers**



# Map production in QGIS

- Click on the icon  Adds a new Scale Bar to the layout
- Place the mouse on the screen to place Scale and drag down
- The Scale appears on the print layout screen
- Under the Item panel you will be able to see Scalebar
- **Edit** the properties of Scalebar from Scalebar Main Properties i.e Units, Segments etc.



**Scalebar**

▼ **Units**

Scalebar units: Kilometers

Label unit multiplier: 1.000000

Label for units: km

Number format: Customize

▼ **Segments**

Segments: left 0, right 3

☒ Fixed width: 75.000000 units

☐ Fit segment width: 50.00 mm

150.00 mm

Height: 3.00 mm


Right segments subdivisions: 1

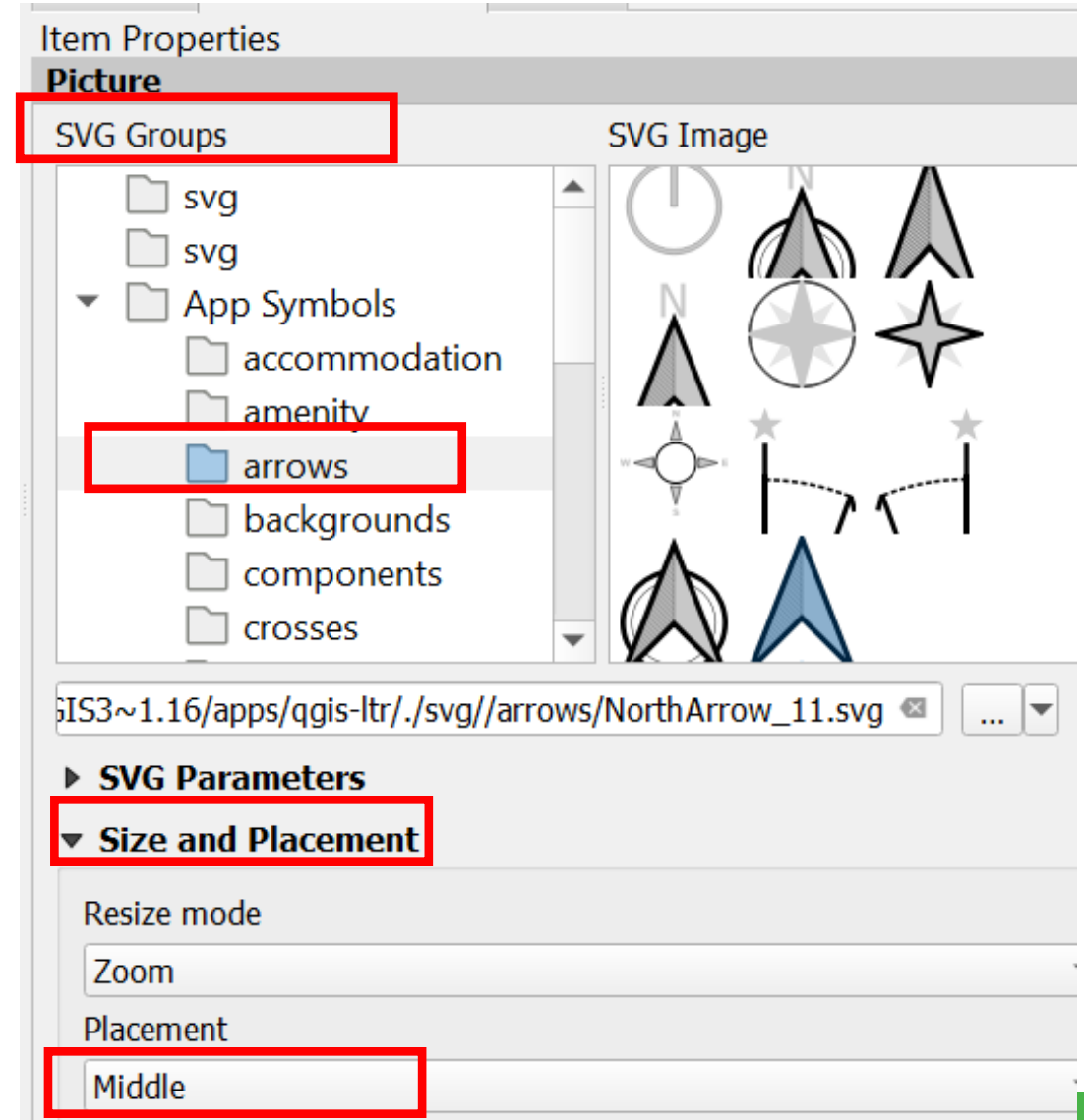
Subdivisions height: 1.50 mm

► **Display**

► **Position and Size**


# Map production in QGIS

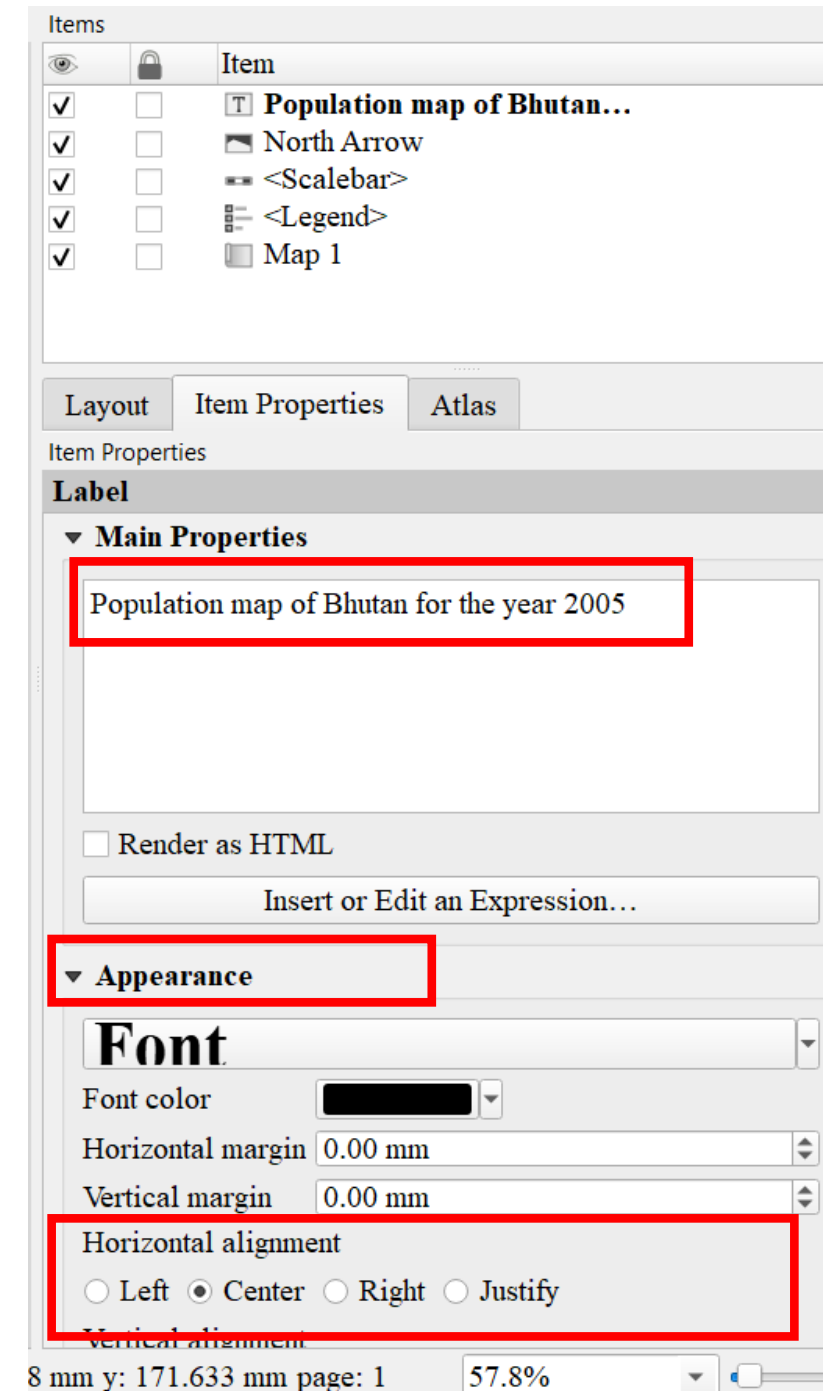
- Click on the icon  Adds a new North Arrow to the layout
- Place the mouse on the screen to place North Arrow and drag down
- The Arrow appears on the print layout screen
- Under the Item panel you will be able to see North Arrow
- You may choose different North arrows from **arrows** under the **SVG groups**
- Edit the **size** and **placement**





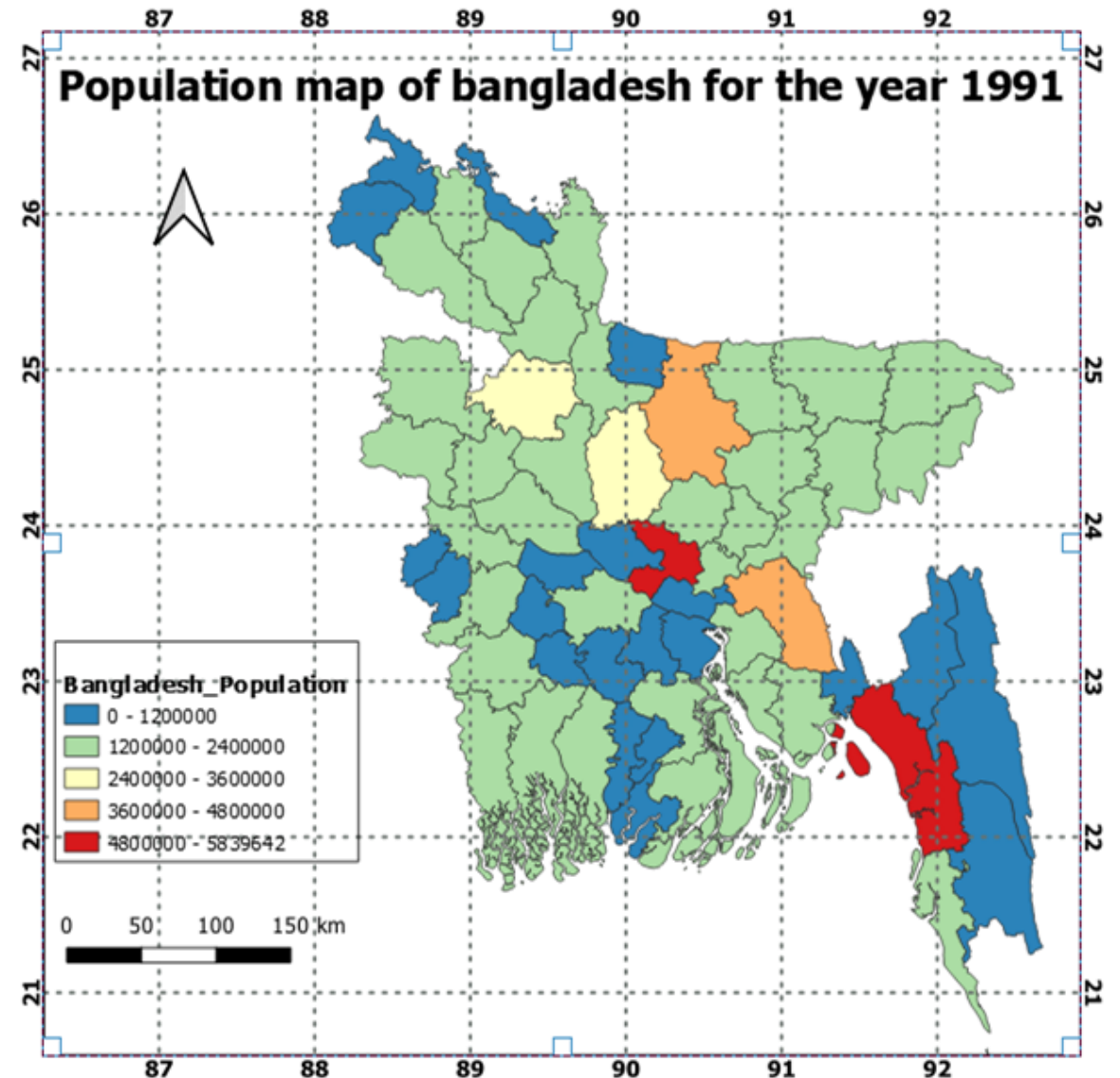
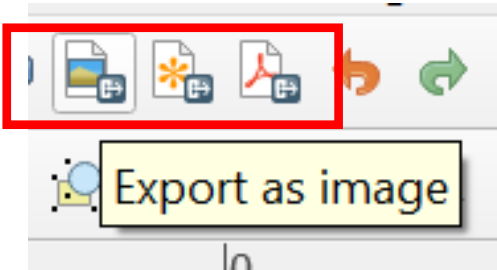
# Map production in QGIS

- Click on the icon  Adds a new Label to the layout
- Place the mouse on the screen to place Label on the screen and drag down
- Edit the Label from the Main Properties
- Edit the **Font** properties i.e. Type, style, size
- Set the **Horizontal** and **Vertical alignment**



# Map production in QGIS

- Export your Map as image or pdf
- Click on the icon **Export as image**







Thank you

Let's protect  
the pulse.