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# Practical 5 -> QGIS display categorised features and create a final map

## Aims of the training

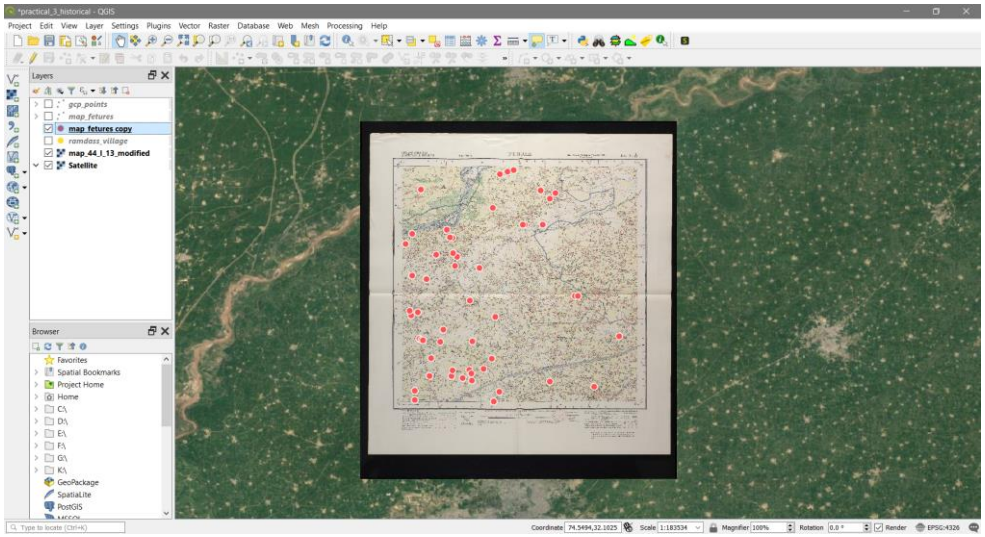
- Change visualisation and symbology settings in QGIS.
- Visualise labels and categorised data

## Required software and data

- QGIS with Google image basemap (see practical 3).
- Shapefile "ramdass_village"
- Georeferenced Survey of India map n. 44 I/13 from Practical 3.
- Archaeological features digitalised in a new shapefile from Practical 4

## Instructions

1. In the previous practicals, we georeferenced a 1-inch Survey of India map covering the area of Ramdass village in Punjab. We also digitalised several map features in a new shapefile. The map should look like something like this, depending on the number of features that you digitalised:



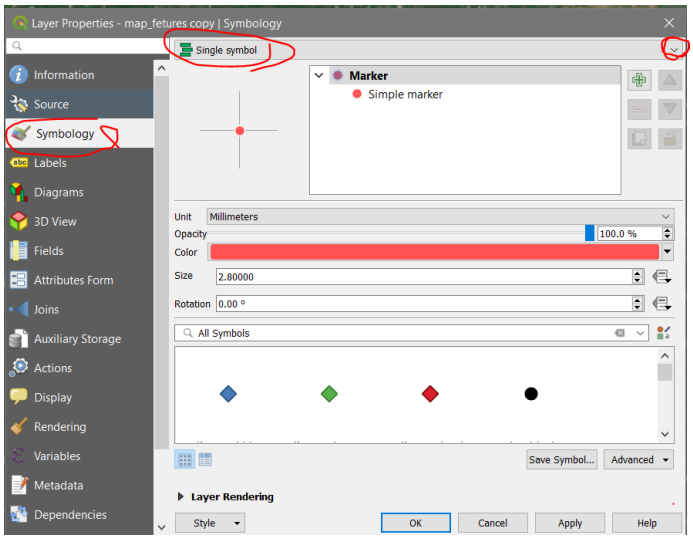

2. Remember that you can change **vector visualisation** parameters such as **size**, **shape** and **color** by right-clicking the point layer in the *Layer list*, and going to its *Properties*. In the *Layer properties* box, you can change the *Symbology* (the icons shape and color) of the point feature.

3. This map looks OK, but remember that you added different **categories** to each feature, for example:

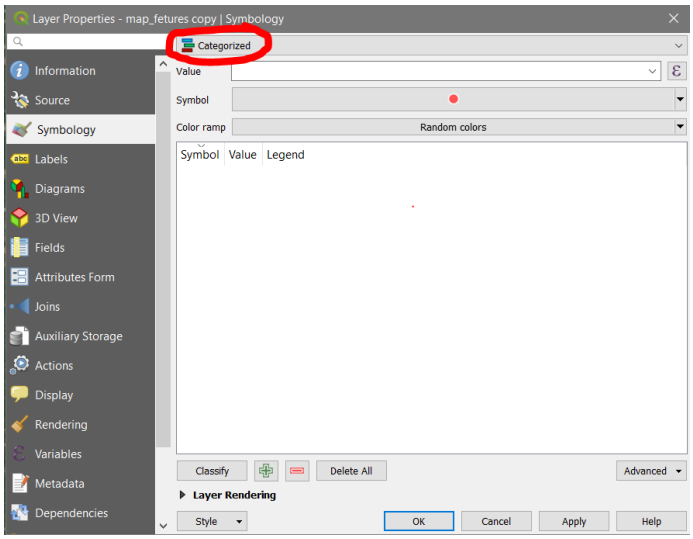
   *Mound / Fort / Shrine / Graves / x (or deserted)*

   A quick way to visualise **different categories** with distinct symbology is to also go to the selected layer, right-clicking the lyer you want to change in the *Layer list*, and going to its *Properties*. In the *Layer properties* box, we will change *Symbology* (the icons shape and color) accordingly to the categories that we found in Practical 4.

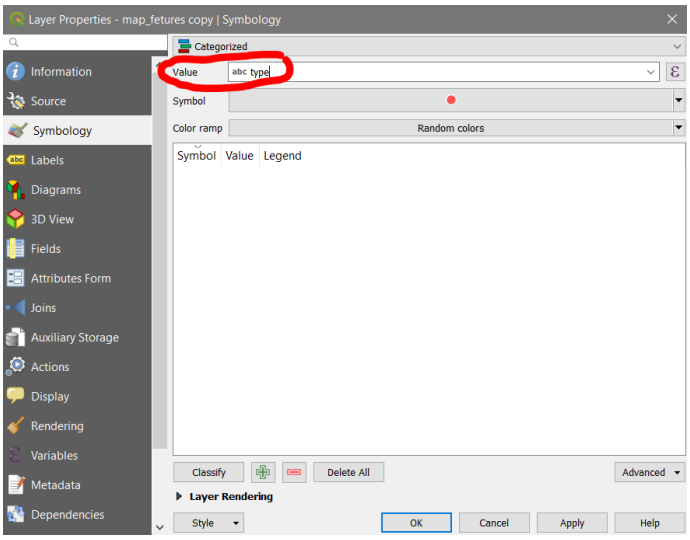
4. In the *Layer Properties* window, under *Simbology*, we can change the top bar that displays "*Single icon*" to the menu sublist *Categorised*.



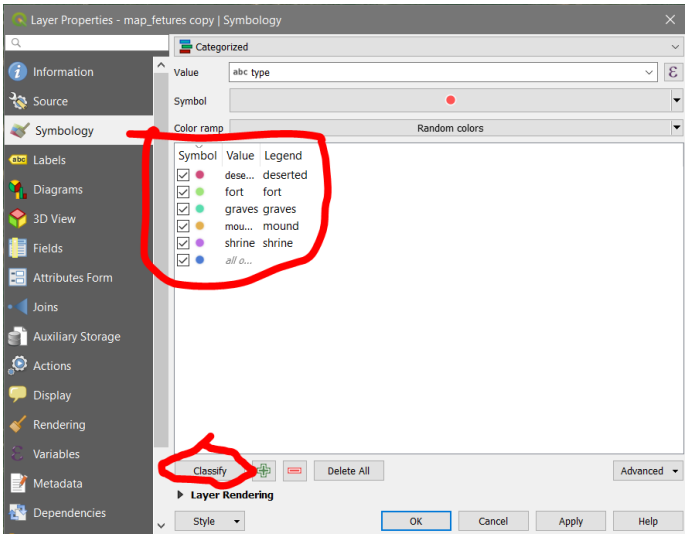

5. Under the *Categorised* top bar, a white list should appear in the main window:



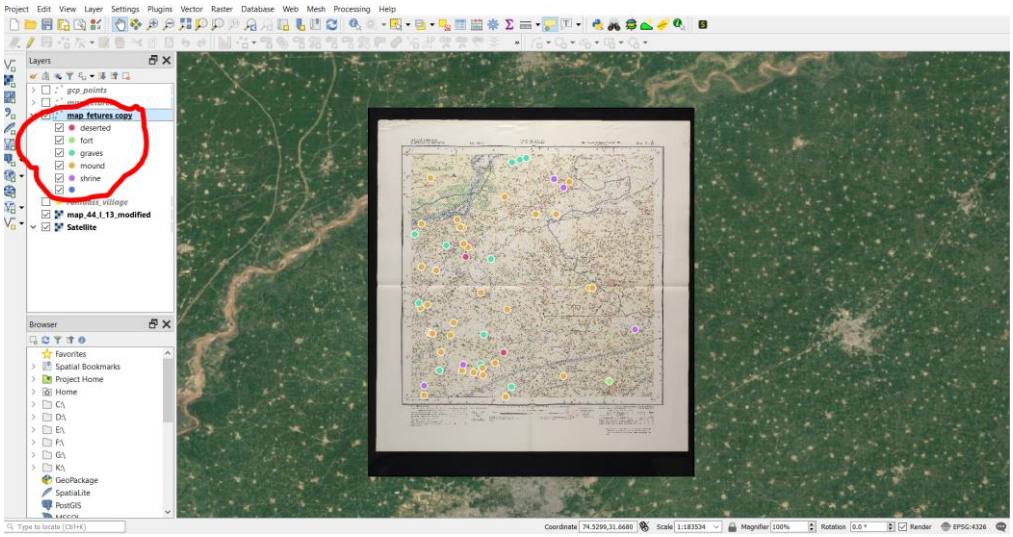
6. QGIS is asking now which column it should read from the shapefile database it should read in order to extract the categories of the data. In the *Value* bar, look for the column that has this information. It should be something like "type":




7. Once you have selected the column displaying your data, click on the *Classify* button. And it's done! You will see how you can display different icons (shape and color) for different categories of data.




8. Your map should look like this:




*We will stop this practical here. In the next practical, we will add a legend, a north arrow and a scale bar to our final map.*