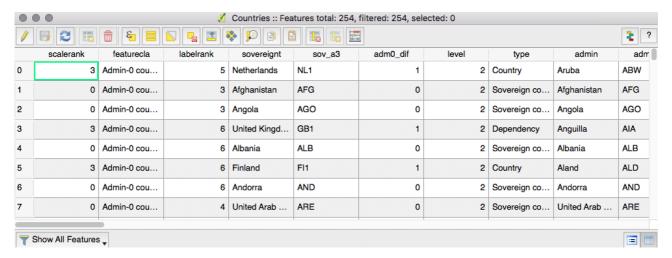


Attribute data in Context

"Attributes are additional pieces of information that describe a spatial feature in a GIS" In this module we will learn about attributes and how to interact with them and edit them.



You try

Goal: Explore and edit attributes

- * Load the Countries layer
- * Open its Layer Properties and look at the Fields tab, noting the names and types
- * Close the Layer Properties, click the Identify button and click on a country
- * Open the layer's attribute table and explore the data
- * Find the country that you clicked on in the previous step and click on the number in the far left of its row to highlight it. Then click the magnifying glass icon at the top of the table.
- * Put the table into edit mode
- * Click on the icon in the lower right corner of the table to toggle to 'form view' (you can switch between form and table view any time)
- * Add a text field called 'major_disasters' and list the major disasters that might affect the country you selected
- * Add an integer field called
- 'disaster_fatalities' and make up and enter

- a number of annual fatalities for the country you selected
- * Save and toggle edit mode
- * Label the Countries layer with 'major_disasters'
- * Style the Countries layer with 'disaster fatalities'
- * if you have time, enter data for more countries and view the changes in your map

Name	Value
Countries layer	ne_10m_admin_0_count ries in the ne.sqlite database in appendix1- naturalearth-data
Zoom to selected feature	Magnifying glass icon in table
Edit mode	Pencil icon

What happens when you click on a feature with the Identify tool? Where is that information coming from?

More about attributes

Vector geodata consists of tables (picture a spreadsheet with its rows and columns). What we call a 'layer' is actually a table, no matter what format it is on disk. The table consists of one or more columns (aka 'fields', 'properties', 'attributes') and zero or more rows (aka 'records' or 'features'). What makes the table a vector layer is the geometry column. So, for a spatial layer, that is the minimum requirement. The geometry in the geometry field is what the GIS software draws in the map and is what we often call a 'feature'. Any other columns we call 'attributes' in the GIS world. They are also just data fields but instead of containing geometry they contain text, numbers, dates etc.

Attributes can be present in the same table as the geometry (as in a shapefile) but they often come from other tables via a 'join', where rows are matched based on a 'key' or on a spatial relationship.

Raster data also has attributes, although normally just one – the value of the cell.



Check your knowledge

- 1. When you open a layer's attribute table in QGIS, where is the geometry column?
- a) There isn't one
- b) It's made up of the latitude and longitude columns
- c) It is shown on the map



Further reading:

http://docs.qgis.org/2.14/en/docs/gentle_gis_introduction/vector_attribute_data.html

http://docs.qgis.org/2.14/en/docs/training_manual/vector_classification/attribute_data .html