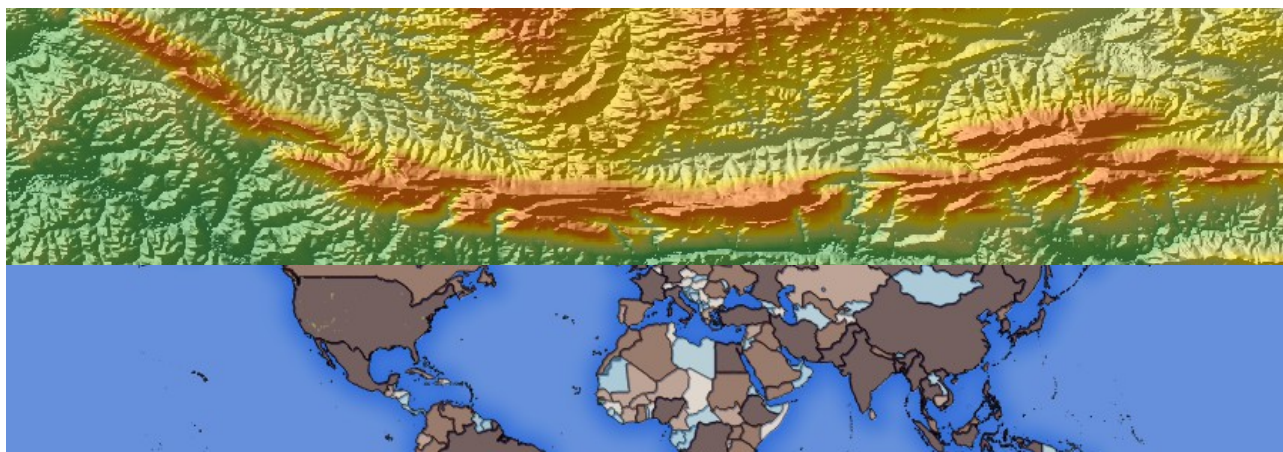




## Colour Ramps in Context

“Colour ramps are used for vector and raster symbology when you need to show continuously varying colours along a colour scale”

In this module we will explore colour ramps. QGIS ships with a number of pre-defined colour ramps, but you can also create your own. Colour ramps let you express numeric changes in a way that is easy for your eyes to interpret.



### You try:

**Goal:** To learn where to find additional colour ramps in QGIS and where they can be used.



#### Part 1: Rasters

Load a raster DEM

Generate a hillshade for the DEM

Place the hillshade underneath the DEM

Use a pseudocolor renderer for the DEM

Create a new colour ramp using 'wiki-tuxnux'

Make the DEM partially transparent

Name	Value
Palette source	cpt
Group	Top of the CPT palettes
Palette	Meyers
Classes	10
Mode	Quantile

#### Part 2: Vectors

Add a countries layer

Set the layer to use a graduated colour renderer using the options on table right



### Check your results:

- ✓ **Part 1:** Once you have assigned the raster colour ramp, your map should look something like the image above (top).
- ✓ **Part 2:** Once you have assigned the raster colour ramp, your map should look something like the image above (bottom).

## More about colour ramps

QGIS uses the same colour ramp system wherever colour ramps are used including:

Name	Value
Vector	Gradient fill
Vector	Shapeburst fill
Vector	Categorised fill
Vector	Graduated fill
Vector	Heatmap
Raster	Pseudocolor renderer

As well as using one of the many built in colour ramps, you can also **create your own colour ramps** using the ramp editor.

Be careful when using colour ramps – colours can make information easy to understand if used wisely, but the human eye cannot easily interpret subtle colour differences so **using many classes often won't improve information handover**.

If you want a comprehensive collection of colour ramps, install the Colour Ramp Manager plugin and install the full CPT ramp collection.



### Check your knowledge:

**1. A colour ramp is:**

- a) Useful for displaying categorised data
- b) Useful for displaying continuous data
- c) Nice for making rainbow patterns on your maps

**2. When working with a ramp it is best to:**

- a) Have as many classes as possible
- b) Have as many similar classes as possible
- c) Have a few divergent classes

Answers: 1b, 2c



### Further reading:

<https://anitagraser.com/2016/04/03/towards-better-gradients/>