W03-2: Explore the Landsat data

In this worksheet, we will further explore the Landsat data of Fogo. After completing this worksheet you should be able to access individual bands of the data and create different color composites.

Things you need for this worksheet

- R — the interpreter can be installed on any operation system. For Linux, you should use the r-cran packages supplied for your Linux distribution. If you use Ubuntu, this is one of many starting points. If you use Windows, you could install R from the official CRAN web page.

- R Studio — we recommend to use R Studio for (interactive) programming with R. You can download R Studio from the official web page.

- W03-1: Read remote sensing data

Learning log assignments

In this worksheet, we will go on with the Landsat data you downloaded and read into R.

🙂 Plot all bands of the Landsat data. What information do they include?

🙂 Try to access single bands from the RasterStack

🙂 Create a true color composite

🙂 Create a false color composite that highlights vegetation in red color

🙂 Calculate and interpret the NDVI