Getting accostumed with geospatial data manipulations – suggested exercise sheet

- Go through this tutorial:
 - https://www.youtube.com/watch?v=E65mfjqlwZl
- Repeat it for the German States
- Then:
 - Locate Frankfurt/Main in Google Earth Engine and download a representative image of it
 - Calculate spectral indixes in that image EVI, NEVI, MNDWI, RVI, NDVI, ARVI
 - Download an average image (e.g. from 2023) for the months January and February and calculate the indices again repeat for the months May and June
 - Cluster the pixels of an image
 - Cluster the pixels of an image derived from spectral indices – do this inside and outside of GEE
 - Bonus: Use GEE to calculate the Water Balance using Precipitation and Evapotranspiration for 2023
 - Bonus: segment streets using publically available street maps
 - Bonus: segment green spaces using spectral indices
 - Bonus: determine ground temperature (hint: you may need to combine images from different satellite missions)
 - Bonus: try to determine the topography of Frankfurt from shadows