

SUMMARY OF DIFFERENCE THE SCRIPT

1. Packages

- **Original Script:** Includes "giscoR" in the package list and uses a more structured format for checking and loading packages.
- **Modified Script:** Does not include "giscoR" and uses a simpler format for checking and loading packages.

2. Country Borders

- **Original Script:** Uses `giscoR::gisco_get_countries()` to obtain country borders for Bosnia and Herzegovina.
- **Modified Script:** Reads a shapefile from a specified path ("D:/Office/R Script/Batas Administrasi Kabupaten/Sorsel dan Bintuni.shp") to obtain the boundary.

3. Download ESRI Land Cover Tiles

- **Original Script:** Downloads tiles for UTM zones 33T and 34T for the year 2022.
- **Modified Script:** Downloads tiles for UTM zones 52M and 53M for the year 2021.

4. Load Tiles

- **Original Script:** Uses EPSG:4326 for projection and applies a modal aggregation function with a factor of 5.
- **Modified Script:** Uses EPSG:32753 for projection and applies a mean aggregation function with a factor of 3.

5. Load Virtual Layer

- **Original Script:** The VRT is named "bosnia_land_cover_vrt.vrt".
- **Modified Script:** The VRT is named "land_cover_vrt.vrt".

6. Fetch Original Colors

- **Both Scripts:** Identical process for extracting the color table and converting RGB values to hex codes.

7. Assign Colors to Raster

- **Original Script:** Works with a raster for Bosnia, naming the processed file as "land_cover_bosnia".
- **Modified Script:** Works with a raster for Sorsel and Bintuni, naming the processed file as "land_cover_sorsel_bintuni".

8. Digital Elevation Model (DEM)

- **Original Script:** Uses Lambert Azimuthal Equal-Area projection and rescales the raster to this projection.
- **Modified Script:** Uses UTM Zone 53S projection.

9. Render Scene

- **Both Scripts:** Render 3D scenes, but they differ in the location and projection used (Bosnia with Lambert projection vs. Sorsel & Bintuni with UTM 53S).

10. Render Object

- **Both Scripts:** Download and use an HDR environment map for rendering but differ in the file naming ("3d_land_cover_bosnia-dark.png" vs. "3d_land_cover_sorsel_bintuni-dark.png").

11. Put Everything Together

- **Original Script:** The legend does not include "Flooded Vegetation" and works with Bosnia data.
- **Modified Script:** Adds "Flooded Vegetation" to the legend and works with Sorsel & Bintuni data.