Script Review: '14_lidR-Processing_to_Git'

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Contents

Action

This following indcludes R Markdown documentation of the LiDAR processing steps taken to derive landscape metrics and raster covariates from a continuous point cloud using the lidR package. This report and literate programming, along with its virtual environment were are stored in the github repository here: 13_lidR_PointCloud_Processing.

1 Import LiDAR

LiDAR downloads for the Ahbau region were imported as zip files and unpacked from their top-directory and subdirectory folders using the unzip function. I could not find any published R packages that deal with .7z archive files. Instead custom-written function was adopted from the RAMP project. This was done with the following code chunk:

```
zip_file_ahbau = ("./14_LiDR-Processing_GitRepo/Data/Ahbau.zip")
zip_dir_ahbau_top = ("./14_LiDR-Processing_GitRepo/Data/")
unzip(zip_file_ahbau,
      exdir = zip_dir_ahbau_top,
      overwrite = TRUE)
zip_dir_ahbau_sub = ("./14_LiDR-Processing_GitRepo/Data/Ahbau/Las_v12_ASPRS")
zip_file_ahbau_sub = list.files(
  zip_dir_ahbau_sub,
  full.names = T,
  recursive = F,
  pattern = '.7z$')
 Write RAMP function and extract
un7zip = function(archive, where) {
  archive <- normalizePath(archive)
  current_path <- setwd(where)
  system(paste("7zr x", archive, sep = " "))
  setwd(current_path) }
un7zip(zip_file_ahbau_sub, zip_dir_ahbau_top)
```