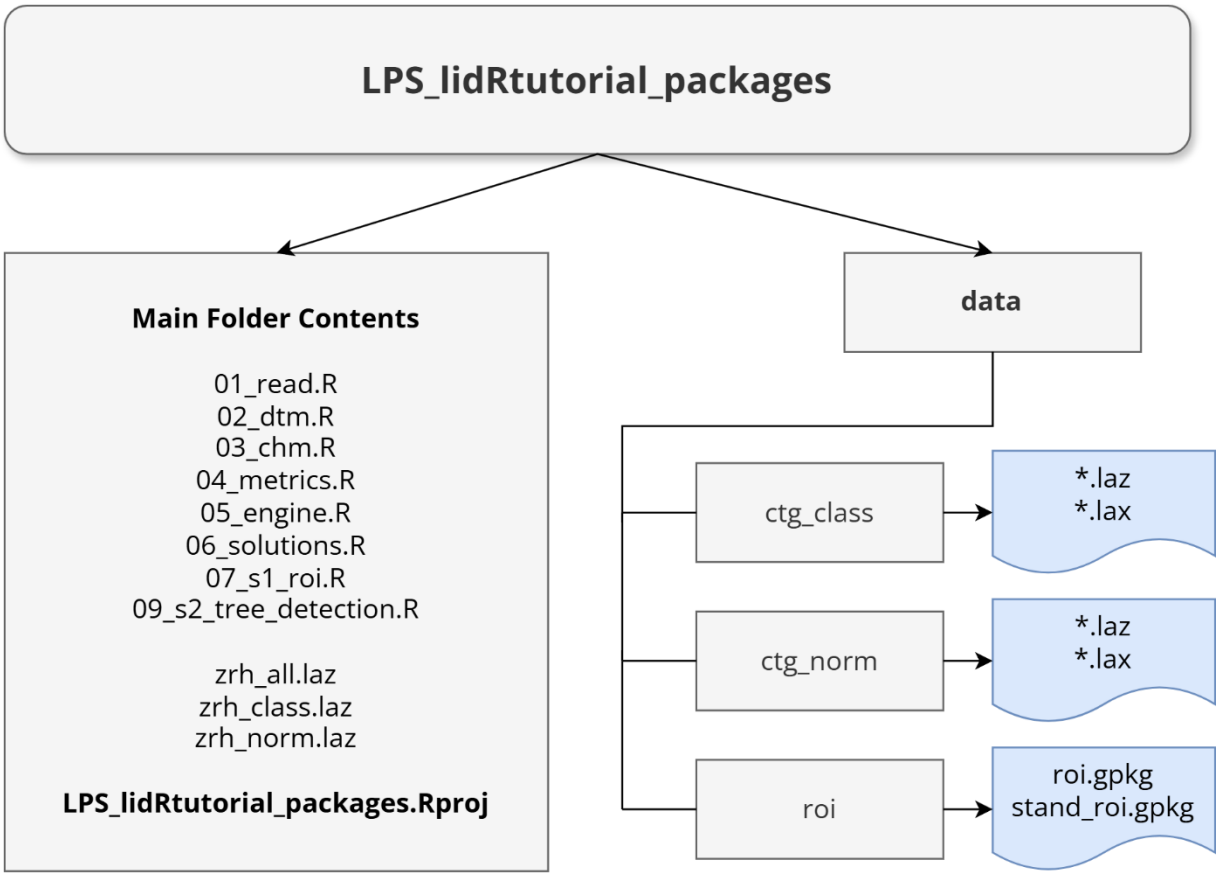
lidR: (A workshop for) Airborne Lidar Data Manipulation and Visualization for Environmental Applications

Quick Setup Guide

Workshop: https://liamirwin.github.io/LPS_lidRtutorial/

1. Install Required Software
    - Download and install:
        - Recent version of R: 4.x
        - RStudio: not mandatory but highly recommended

2. Download Data and Scripts
    - Go to https://liamirwin.github.io/LPS_lidRtutorial/#download-workshop-materials (part way down) and download the three zip folders
    - Extract the zip folders to a folder for this workshop
    - For the easiest experience set your folder up as follows:



SETUP CONTINUES ON REVERSE

3. Open the LPS_lidRtutorial_packages.Rproj with RStudio

4. Open 01_read.R

5. Install Required R Packages (start of 01_read.R or on workshop site)
    - Within RStudio (or your IDE of choice) run:

```
install.packages("lidR")

libs <- c("terra", "viridis", "future", "sf", "mapview")

install.packages(libs)

if (!requireNamespace("devtools", quietly = TRUE)) {
install.packages("devtools")}

devtools::install_github("ptompalski/lidRmetrics")
```

6. Now follow along each step using the navigation bar at the top of the website (1-6)

lidR is an open-source package still maintained by the original developer (Jean Romain Roussel) through his company: r-lidar

r-lidar.com

Workshop developed and presented by the IRSS based at the University of British Columbia, Canada

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