Package: lidRviewer (via r-universe)

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Type Package

Title 3D point cloud viewer for lidR

Version 0.3.0

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Description A simple point cloud viewer for R which enable to display
million of points in a fluid way and using few memory. This
package aims to replace rgl in lidR when the point cloud is to
big to be held by rgl.

Depends R (>= 3.1.0)

Imports Rcpp,grDevices

License GPL-3

Encoding UTF-8

LazyData true

LinkingTo Rcpp

RoxygenNote 7.1.1

SystemRequirements GLU, OpenGL, SDL2

Repository https://r-lidar.r-universe.dev

RemoteUrl https://github.com/r-lidar-lab/lidRviewer

RemoteRef HEAD

RemoteSha a35305216e432f906a9d5716f199be38622100d4

Contents

`plot_xyzcol`	*Display big 3D point clouds*

Description

Display big 3D point clouds using rgl style. This function does no lag and can display almost instantly millions of points. It is optimized to used the lowest possible memory and is capable of displaying gigabytes of points allocating only few megabyte of memory

Usage

```
plot_xyzcol(x, y, z, col, id = NULL, size = 2)

plot_xyzrgb(x, y, z, r, g, b, id = NULL, size = 2)
```

Arguments

x	numeric vector of x coordinates
y	numeric vector of y coordinates
z	numeric vector of z coordinates
col	character vector of hexadecimal colors.
id	integer vector. Memory optimization. Instead of storing 3 vectors of integer and potentially storing duplicated entries it is possible to provide a short list of colors and refer to these color using a single set of integer used as id to the color.
size	the size of the points
r	integer vector of red components
g	integer vector of green components
b	integer vector of blue components

Examples

```
## Not run:
x = runif(1000, 0, 100)
y = runif(1000, 0, 100)
z = runif(1000, 0, 100)
col = rainbow(10)
id = sample(1:10, 1000, replace = TRUE)
plot_xyzcol(x, y, z, col, id)

## End(Not run)
```

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