Package ‘wiad’

February 12, 2021

Type Package

Title Wood Image Analysis and Dataset

Version 0.0.1.0

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Description Providing a user-friendly interface to digitize wood imagery such as tree ring scans. The package offers a web-based application that the user can run locally from their computers to analyze wood characteristics.

Encoding UTF-8

LazyData true

License AGPL-3

RoxygenNote 7.1.0

Imports abind, data.table, shiny, dplyr, DT

Suggests dplR, imager, jsonlite, jpeg, png, plotly, shinyFiles, shinyjs, shinythemes, raster, rgdal, readr, readxl, sp, testthat, tiff, tibble, tools, zoo

NeedsCompilation no

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getExampleData  
*Downloads and installs the WIAD Example Dataset*

**Description**

The WIAD Example Dataset can be downloaded from https://wiad.science/WIAD_ExampleData.zip. This function downloads and extracts the WIAD Example Dataset in the package folder.

**Usage**

```r
getExampleData(mode = "install", downloadPath = tempdir(), installPath = "")
```

**Arguments**

- **mode**  
  "install" (default), "update" or "remove"
- **downloadPath**  
  custom location to temporarily store WIAD example dataset while downloading. Default: `tempdir()`
- **installPath**  
  custom location to place WIAD example dataset. Default: WIAD package directory

**Value**

No return value

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**Launch**  
*Launch WIAD interface*

**Description**

This function launches the app by opening the default web browser.

**Usage**

```r
Launch(archiveDir = "./WIAD_ARCHIVE/", Interactive = FALSE)
```

**Arguments**

- **archiveDir**  
  path to the archive directory
- **Interactive**  
  logical variable to force an interactive session

**Value**

No return value, this should be run in an interactive R session
Launch

Examples

```cpp
//Launch WIAD interface
wiad::Launch()
```
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