Package ‘MSMB’

January 11, 2024

Title Data sets for the book 'Modern Statistics for Biology'

Version 1.20.0

Author Wolfgang Huber, Andrzej Oles, Mike Smith

Description Data sets for the book 'Modern Statistics for Modern Biology',
S.P. Holmes and W. Huber.

Maintainer Wolfgang Huber <wolfgang.huber@embl.org>

License LGPL

Depends R (>= 3.5), tibble

Suggests knitr, BiocStyle

VignetteBuilder knitr

biocViews ExperimentData

git_url https://git.bioconductor.org/packages/MSMB

git_branch RELEASE_3_18

git_last_commit 2f9c796

git_last_commit_date 2023-10-24

Repository Bioconductor 3.18

Date/Publication 2024-01-11

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Coordinates and cell types in a histopathology slide of a breast cancer patient’s lymph node.

Usage

```r
data("brcalymphnode")
```

Format

A `data.frame`.

Details

This dataset is used as an example in the 'Image data' chapter. See there for more details about it.

Examples

```r
data("brcalymphnode")
plot(x = brcalymphnode$x, y = brcalymphnode$y, pch=".", col = brcalymphnode$class)
```

Coordinates of and pairwise distances between hero cities and oblast capitals in Ukraine.

Usage

```r
data("ukraine_dists")
data("ukraine_coords")
```

Format

`ukraine_dists` is an object of S3 class `dist`. `ukraine_coords` is a `tibble`.

Details

The two datasets were constructed using the R code in the file `ukraine-dists.R` in the `scripts` directory of this package. Briefly, the city and place names are hardcoded in the script, coordinates were queried from OpenStreetMap using the `geo` function in the `tidygeocoder`, and pairwise geodesic distances computed using the `geodist` function from the eponymous package.
Examples

data("ukraine_coords")
plot(x = ukraine_coords$lon, y = ukraine_coords$lat, pch = 16, cex = 0.7, col = "#0057b7", asp = 1 / cos(pi / 180 * 48))

text(x = ukraine_coords$lon, y = ukraine_coords$lat, labels = ukraine_coords$city, adj = c(0.5, -0.2))
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