Package 'MSMB'

July 15, 2025

Title Data sets for the book 'Modern Statistics for Biology' Version 1.27.0 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 (\geq 3.5), tibble Suggests knitr, BiocStyle VignetteBuilder knitr biocViews ExperimentData git_url https://git.bioconductor.org/packages/MSMB git_branch devel git_last_commit 0b08090 git_last_commit_date 2025-04-15 **Repository** Bioconductor 3.22 Date/Publication 2025-07-15

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brcalymphnode	Coordinates and cell types in a histopathology slide of a breast cancer
	patient's lymph node

Description

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

Usage

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

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

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

Description

This dataset is used as an example in the 'Multivariate methods for heterogeneous data' chapter.

Usage

```
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 / 18
text(x = ukraine_coords$lon, y = ukraine_coords$lat, labels = ukraine_coords$city, adj = c(0.5, -0.2))
```

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