

# Package: MSMB (via r-universe)

October 11, 2026

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

**Version** 1.31.0

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

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**License** LGPL

**Depends** R (>= 3.5), tibble

**Suggests** knitr, BiocStyle

**VignetteBuilder** knitr

**biocViews** ExperimentData

**Repository** <https://huber-group-embl.r-universe.dev>

**Date/Publication** 2026-04-28 12:31:34 UTC

**RemoteUrl** <https://git.bioconductor.org/packages/MSMB>

**RemoteRef** HEAD

**RemoteSha** 3d1244bb0d1f1f0e8e936dcdbcd0c886ea18bb06

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| brcalymphnode | <i>Coordinates and cell types in a histopathology slide of a breast cancer patient's lymph node</i> |
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### 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)
```

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| ukraine_dists | <i>Coordinates of and pairwise distances between hero cities and oblast capitals in Ukraine</i> |
|---------------|-------------------------------------------------------------------------------------------------|

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### 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 / 180 *
text(x = ukraine_coords$lon, y = ukraine_coords$lat, labels = ukraine_coords$city, adj = c(0.5, -0.2))
```

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## \* **datasets**

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