

Package: rpkgdemo (via r-universe)

October 20, 2026

Title A demo package for building R packages

Version 1.0.0

Description A package to demonstrate building an R package to accompany a workshop on building R packages in Positron. See the getting started vignette for details.

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URL <https://github.com/stephenturner/rpkgdemo>,
<https://stephenturner.github.io/rpkgdemo/>

BugReports <https://github.com/stephenturner/rpkgdemo/issues>

Depends R (>= 3.5)

Imports dplyr, readr, rlang

Suggests here, knitr, rmarkdown, testthat (>= 3.0.0), tibble

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/pak/sysreqs libx11-dev

Repository <https://stephenturner.r-universe.dev>

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prep_lab_data	<i>Prepare lab data</i>
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Description

Prepare lab data for analysis. Standardizes the sex variable, joins with zipcodes data, centers and scales lab values.

Usage

```
prep_lab_data(x, warnings = TRUE)
```

Arguments

x	A data frame containing lab data with at least sex, zip, and lab value columns starting with "lab".
warnings	Logical. Whether to issue warnings for potential data issues (bad zip codes, minors, unrealistic ages). Default is TRUE.

Value

A data frame with standardized sex, joined zipcodes, and scaled lab values.

Examples

```
prep_lab_data(rpel)
```

racemap	<i>Race mapping</i>
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Description

A named character vector mapping various race categories to a harmonized variable

Usage

```
racemap
```

Format

A named character vector.

Examples

```
racemap
racemap["AI/AN"]
racemap["Black"]
racemap["Doesn't exist in the mapping"]
table(racemap)
```

read_labdata	<i>Read laboratory data</i>
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Description

Read laboratory data from a file

Usage

```
read_labdata(file)
```

Arguments

file	A file path
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Value

A data frame

Examples

```
fp <- system.file("extdata/rped.csv", package = "rpkgdemo", mustWork = TRUE)
read_labdata(fp)
```

`rped`

RPED: R Package Example Data

Description

Simulated data for demonstrating the functionality of the `rpkgdemo` package.

Usage`rped`**Format**

A data frame with 6 columns:

1. `id`: A unique identifier for each individual.
2. `sex`: The sex of the individual.
3. `age`: The age of the individual.
4. `zip`: The ZIP code of the individual's residence.
5. `lab1`: A simulated lab value from a Poisson distribution with $\lambda=2$.
6. `lab2`: A simulated lab value from a Poisson distribution with $\lambda=10$.

Examples`rped`

`standardize_race`

Standardize race variable

Description

Standardize race variable

Usage`standardize_race(x, racecol = "race")`**Arguments**

<code>x</code>	A data frame containing a race column to harmonize
<code>racecol</code>	The name of the race column. Default is "race".

Value

A new data frame with an additional `.race_standardized` column

See Also

[racemap](#)

Examples

```
set.seed(123)
mydata <- data.frame(reported_race=sample(names(racemap), 20, replace=TRUE))
mydata$reported_race[15] <- "Martian"
mydata
standardize_race(mydata, racecol="reported_race")
```

standardize_sex

Standardize Sex Variables

Description

Maps various inputs (M, Male, f, Female) to standard HL7/ISO codes (M, F, O, U).

Usage

```
standardize_sex(x)
```

Arguments

`x` A character vector of sex/gender inputs.

Value

A character vector containing "M", "F", "O", or "U".

Examples

```
standardize_sex(c("Male", "f", "Trans female", "nonbinary", "unknown", NA))
```

suppress_counts	<i>Suppress Low Counts for Privacy</i>
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Description

Replaces numeric counts below a threshold with a suppression character (NA).

Usage

```
suppress_counts(x, threshold = 5, symbol = NA)
```

Arguments

x	A numeric vector of counts.
threshold	Numeric. Values strictly less than this are suppressed. Default 5.
symbol	Character or NA. The symbol to use for suppression. Default is NA.

Value

A vector.

Examples

```
suppress_counts(c(1, 3, 5, 7, 9))  
suppress_counts(c(10, 20, 3, 4, 5), threshold = 10)  
suppress_counts(1:10, threshold = 5, symbol = "*")
```

zipcodes	<i>ZIP code data</i>
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Description

ZIP code data from the US Postal Service.

Usage

```
zipcodes
```

Format

A data frame with three columns

1. zip: The ZIP code.
2. city: The U.S. city for that zip code.
3. state: The U.S. state for that zip code.

zipcodes

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Source

https://postalpro.usps.com/ZIP_Locale_Detail

Examples

zipcodes

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