

Package ‘palmerpenguins’

October 14, 2022

Title Palmer Archipelago (Antarctica) Penguin Data

Version 0.1.1

Date 2022-08-12

Description

Size measurements, clutch observations, and blood isotope ratios for adult foraging Adélie, Chinstrap, and Gentoo penguins observed on islands in the Palmer Archipelago near Palmer Station, Antarctica. Data were collected and made available by Dr. Kristen Gorman and the Palmer Station Long Term Ecological Research (LTER) Program.

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Encoding UTF-8

LazyData true

RoxygenNote 7.2.1.9000

Depends R (>= 2.10)

Suggests knitr, rmarkdown, tibble, ggplot2, dplyr, tidyr, recipes

URL <https://allisonhorst.github.io/palmerpenguins/>,
<https://github.com/allisonhorst/palmerpenguins>

BugReports <https://github.com/allisonhorst/palmerpenguins/issues>

NeedsCompilation no

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path_to_file	<i>Get file path to penguins.csv and penguins_raw.csv files</i>
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Description

palmerpenguins comes bundled with two csv files in its inst/extdata directory. This function make them easy to access.

Usage

```
path_to_file(path = NULL)
```

Arguments

path	Name of file in quotes with extension; "penguins.csv" and "penguins_raw.csv" will work. If NULL, the example files will be listed.
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Details

The data in each file is the same as [penguins](#) and [penguins_raw](#), but without the variable types.

Source

This function is adapted from `readxl::readxl_example()`.

Examples

```
path_to_file()
path_to_file("penguins_raw.csv")
head(read.csv(path_to_file("penguins.csv")))
```

penguins	<i>Size measurements for adult foraging penguins near Palmer Station, Antarctica</i>
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Description

Includes measurements for penguin species, island in Palmer Archipelago, size (flipper length, body mass, bill dimensions), and sex. This is a subset of [penguins_raw](#).

Usage

```
penguins
```

Format

A tibble with 344 rows and 8 variables:

species a factor denoting penguin species (Adélie, Chinstrap and Gentoo)

island a factor denoting island in Palmer Archipelago, Antarctica (Biscoe, Dream or Torgersen)

bill_length_mm a number denoting bill length (millimeters)

bill_depth_mm a number denoting bill depth (millimeters)

flipper_length_mm an integer denoting flipper length (millimeters)

body_mass_g an integer denoting body mass (grams)

sex a factor denoting penguin sex (female, male)

year an integer denoting the study year (2007, 2008, or 2009)

Source

Adélie penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Adélie penguins (*Pygoscelis adeliae*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 5. Environmental Data Initiative. doi: [10.6073/pasta/98b16d7d563f265cb52372c8ca99e60f](https://doi.org/10.6073/pasta/98b16d7d563f265cb52372c8ca99e60f)

Gentoo penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Gentoo penguin (*Pygoscelis papua*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 5. Environmental Data Initiative. doi: [10.6073/pasta/7fca67fb28d56ee2ffa3d9370ebda689](https://doi.org/10.6073/pasta/7fca67fb28d56ee2ffa3d9370ebda689)

Chinstrap penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Chinstrap penguin (*Pygoscelis antarcticus*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 6. Environmental Data Initiative. doi: [10.6073/pasta/c14dfcfada8ea13a17536e73eb6fbe9e](https://doi.org/10.6073/pasta/c14dfcfada8ea13a17536e73eb6fbe9e)

Originally published in: Gorman KB, Williams TD, Fraser WR (2014) Ecological Sexual Dimorphism and Environmental Variability within a Community of Antarctic Penguins (Genus *Pygoscelis*). PLoS ONE 9(3): e90081. doi:10.1371/journal.pone.0090081

penguins_raw	<i>Penguin size, clutch, and blood isotope data for foraging adults near Palmer Station, Antarctica</i>
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Description

Includes nesting observations, penguin size data, and isotope measurements from blood samples for adult Adélie, Chinstrap, and Gentoo penguins.

Usage

penguins_raw

Format

A tibble with 344 rows and 17 variables:

studyName Sampling expedition from which data were collected, generated, etc.

Sample Number an integer denoting the continuous numbering sequence for each sample

Species a character string denoting the penguin species

Region a character string denoting the region of Palmer LTER sampling grid

Island a character string denoting the island near Palmer Station where samples were collected

Stage a character string denoting reproductive stage at sampling

Individual ID a character string denoting the unique ID for each individual in dataset

Clutch Completion a character string denoting if the study nest observed with a full clutch, i.e., 2 eggs

Date Egg a date denoting the date study nest observed with 1 egg (sampled)

Culmen Length a number denoting the length of the dorsal ridge of a bird's bill (millimeters)

Culmen Depth a number denoting the depth of the dorsal ridge of a bird's bill (millimeters)

Flipper Length an integer denoting the length penguin flipper (millimeters)

Body Mass an integer denoting the penguin body mass (grams)

Sex a character string denoting the sex of an animal

Delta 15 N a number denoting the measure of the ratio of stable isotopes 15N:14N

Delta 13 C a number denoting the measure of the ratio of stable isotopes 13C:12C

Comments a character string with text providing additional relevant information for data

Source

Adélie penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Adélie penguins (*Pygoscelis adeliae*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 5. Environmental Data Initiative. doi: [10.6073/pasta/98b16d7d563f265cb52372c8ca99e60f](https://doi.org/10.6073/pasta/98b16d7d563f265cb52372c8ca99e60f)

Gentoo penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Gentoo penguin (*Pygoscelis papua*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 5. Environmental Data Initiative. doi: [10.6073/pasta/7fca67fb28d56ee2ffa3d9370ebda689](https://doi.org/10.6073/pasta/7fca67fb28d56ee2ffa3d9370ebda689)

Chinstrap penguins: Palmer Station Antarctica LTER and K. Gorman. 2020. Structural size measurements and isotopic signatures of foraging among adult male and female Chinstrap penguin (*Pygoscelis antarcticus*) nesting along the Palmer Archipelago near Palmer Station, 2007-2009 ver 6. Environmental Data Initiative. doi: [10.6073/pasta/c14dfcfada8ea13a17536e73eb6fbe9e](https://doi.org/10.6073/pasta/c14dfcfada8ea13a17536e73eb6fbe9e)

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