

Source on Save

Run

Source

```
1 library(tidyverse)
2 #manipulate your data
3 #data wrangling
4 #msleep
5 glimpse(msleep)
6 view(msleep)
7
8 #how to rename a variable
9 msleep
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12 msleep %>%
13   rename("conserv"="conservation")%>%
14   glimpse()
15 #it get change to conservation to conserv
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17 #reorder variables
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19   select(vore,name,everything())
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29   mutate(vore = as.character((vore))) %>%
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31 #it change to character datatype
32 #select variable to work with
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```

Console

Terminal

Background Jobs

```
R 4.2.1 ~ R
# with 73 more rows, 3 more variables: awake <dbl>,
# brainwt <dbl>, bodywt <dbl>, and abbreviated variable
# names: conservation, 'sleep_total', 'sleep_rem',
# 'sleep_cycle'
# i use 'print(n = ...)' to see more rows, and 'colnames()' to see all variable names
> msleep %>%
+   rename("conserv"="conservation")%>%
+   glimpse()
Rows: 83
Columns: 11
# name          <chr> "Cheetah", "Owl monkey", "Mountain beaver", "Greater short-tailed shrew", "Cow", "Three-toed sloth",
# genus         <chr> "Acinonyx", "Aotus", "Aplodontia", "Blarina", "Bos", "Bradypus", "Callorhinus", "Calonyx", "Canis",
# vore           <chr> "carni", "omni", "herbi", "omni", "herbi", "herbi", "carni", "na", "carni", "herbi", "herbi",
# order          <chr> "Carnivora", "Primates", "Rodentia", "Soricomorpha", "Artiodactyla", "Ptilosa", "Carnivora", "Rodent",
# conserv        <chr> "lc", "na", "na", "lc", "domesticated", "na", "lc", "na", "domesticated", "lc", "lc", "domesticated", "lc",
# sleep_total    <dbl> 12.1, 17.0, 14.4, 14.9, 4.0, 14.4, 8.7, 7.0, 10.1, 3.0, 5.3, 9.4, 10.0, 12.5, 10.3, 8.3, 9.1, 17.4,
# sleep_rem     <dbl> NA, 1.8, 2.4, 2.9, 0.7, 2.2, 1.4, NA, 2.9, NA, 0.6, 0.8, 0.7, 1.3, 2.2, 2.0, 1.4, 1.1, 0.5, 4.9, NA,
# sleep_cycle    <dbl> NA, NA, NA, 0.1333333, 0.4666667, 0.7666667, 0.3833333, NA, 0.3333333, NA, NA, 0.2166667, NA, 0.116,
# awake         <dbl> 11.90, 7.00, 9.60, 9.10, 20.00, 9.60, 15.30, 17.00, 13.90, 21.00, 18.70, 14.60, 14.00, 11.50, 13.70,
# brainwt       <dbl> NA, 0.01550, NA, 0.00029, 0.42300, NA, NA, NA, 0.07000, 0.09820, 0.11500, 0.00510, NA, 0.00640, 0.0,
# bodywt        <dbl> 50.000, 0.480, 1.350, 0.019, 600.000, 3.850, 20.490, 0.045, 14.000, 14.800, 33.500, 0.728, 4.750, 0.
>
```

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Environment

History

Connections

Tutorial

Environment is empty

Files

Plots

Packages

Help

Viewer

Presentation

R: An updated and expanded version of the mammals sleep dataset - Find in Topic

msleep (ggplot2)

R Documentation

An updated and expanded version of the mammals sleep dataset

Description

This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. Proceedings of the National Academy of Sciences, 104 (3) 1051-1056, 2007.

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msleep

Format

A data frame with 83 rows and 11 variables:

name

common name

genus

vore

carnivore, omnivore or herbivore?

order

conservation

the conservation status of the animal

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# brainwt <dbl>, bodywt <dbl>, and abbreviated variable
# names: conservation, 'sleep_total', 'sleep_rem',
# 'sleep_cycle'
# i use 'print(n = ...)' to see more rows
> #change a variable type
> class(msleepvore)
[1] "character"
>
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Data
msleep 83 obs. of 11 variables
Files Plots Packages Help Viewer Presentation
R: An updated and expanded version of the mammals sleep dataset • Find in Topic
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Environment History Connections Tutorial
R • Global Environment • 230 MB •
Data
msleep 83 obs. of 11 variables
Files Plots Packages Help Viewer Presentation
R: An updated and expanded version of the mammals sleep dataset • Find in Topic
msleep (ggplot2) R Documentation
An updated and expanded version of the mammals sleep dataset
Description
This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. Proceedings of the National Academy of Sciences, 104 (3) 1051-1056, 2007.
Usage
msleep
Format
A data frame with 83 rows and 11 variables:
name
common name
genus
vore
conserv
conservation
the conservation status of the animal

Type here to search

The screenshot shows a RStudio session with the following components:

- Source Editor:** Contains R code for installing and loading the 'msleep' package. The code includes comments in Chinese and R syntax for installing from GitHub, loading the package, and creating a data frame from a CSV file.
- Console:** Shows the output of the R code, including the installation of 'msleep' and the loading of the 'msleep' package.
- Environment:** Shows the 'msleep' package loaded with 83 observations and 11 variables.
- Files:** Shows the 'msleep' package files, including 'DESCRIPTION', 'NAMESPACE', 'R', 'data', and 'man'.
- Description:** Shows the package description for 'msleep', which is an updated and expanded version of the mammals sleep dataset.

Source on file

Run

Source

msleep

83 obs. of 11 variables

```
31 #!t change to character datatype
32 #select variable to work with
33 names(msleep)
34 msleep %>%
35   select(2:4,
36         awake,
37         starts_with("sleep"),
38         contains("wt")) %>%
39   names()
40 #selecting a particular variables and manipulate
41 #filter and arrange data
42 unique(msleep$order)
43 msleep %>%
44   filter((order == "Carnivora" |
45           order == "Primates") &
46          sleep_total > 8) %>%
47   select(name,order,sleep_total) %>%
48   arrange(-sleep_total) %>%
49   view
50 #the above code is filters out carnivorous and primates from order variable
51 #it arranges the sleep_total variable in descending order
52 #alternate way to filter and arrange
53 msleep %>%
54   filter(order %in% c("Carnivora", "Primates") &
55          sleep_total > 8) %>%
56   select(name,order,sleep_total) %>%
57   arrange(order) %>%
58   view
59 #mutate function usage
60 #here the mutate function is used for changing the observation
61 msleep %>%
62   mutate(brainwt=brainwt*1000) %>%
63   view
```

Console Terminal Background Jobs

R 4.2.1

> unique(msleep\$order)

[1] "Carnivora" "Primates" "Rodentia" "Soricomorpha" "Artiodactyla" "Pilosa"

[7] "Cingulata" "Pyrocephala" "Didelphimorpha" "Proboscidea" "Chiroptera" "Perissodactyla"

[13] "Eumetazoa" "Cetacea" "Lagomorpha" "Diprotodontia" "Monotremata" "Afrosoricida"

[19] "Scandentia"

> msleep %>%

+ filter((order == "Carnivora" |

+ order == "Primates") &

+ sleep_total > 8) %>%

+ select(name,order,sleep_total) %>%

+ arrange(-sleep_total) %>%

+ view

> #the above code is filters out carnivorous and primates from order variable

> #it arranges the sleep_total variable in descending order

> #alternate way to filter and arrange

> msleep %>%

+ filter(order %in% c("Carnivora", "Primates") &

+ sleep_total > 8) %>%

+ select(name,order,sleep_total) %>%

+ arrange(order) %>%

+ view

> |

Files Plots Packages Help Viewer Presentation

R: An updated and expanded version of the mammals sleep dataset

Find in Topic

msleep (ggplot2)

R Documentation

An updated and expanded version of the mammals sleep dataset

Description

This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. Proceedings of the National Academy of Sciences, 104 (3):1051-1056, 2007.

Usage

msleep

Format

A data frame with 83 rows and 11 variables.

name

common name

genus

vore

carnivore, omnivore or herbivore?

order

conservation

the conservation status of the animal

	name	order	sleep_total
1	Owl monkey	Primates	17.0
2	Tiger	Carnivora	15.8
3	Lion	Carnivora	13.5
4	Domestic cat	Carnivora	12.5
5	Arctic fox	Carnivora	12.5
6	Cheetah	Carnivora	12.1
7	Slow loris	Primates	11.0
8	Potto	Primates	11.0
9	Patas monkey	Primates	10.9
10	Jaguar	Carnivora	10.4
11	Dog	Carnivora	10.1
12	Macaque	Primates	10.1
13	Grivet	Primates	10.0
14	Galago	Primates	9.8
15	Red fox	Carnivora	9.8
16	Chimpanzee	Primates	9.7
17	Squirrel monkey	Primates	9.6
18	Mongoose lemur	Primates	9.5

```

36 msleep %>%
37   starts_with("sleep"),
38   contains("wt")) %>%
39   names()
40 #selecting a particular variables and manipulate
41 #filter and arrange data
42 unique(msleep$order)
43 msleep %>%
44   filter(order == "Carnivora" |
45          order == "Primates") &
46          sleep_total > 8) %>%
47   select(name,order,sleep_total)%>%
48   arrange(-sleep_total)%>%
49   view
50 #the above code is filters out carnivorous and primates from order variable
51 #it arranges the sleep_total variable in descending order
52 #alternate way to filter and arrange
53 msleep %>%
54   filter(order %in% c("Carnivora", "Primates") &
55          sleep_total > 8) %>%
56   select(name,order,sleep_total) %>%
57   arrange(order) %>%
58   view
59 #mutate function usage
60 #where the mutate function is used for changing the observation
61 msleep %>%
62   mutate(brafnwt=brafnwt*1000) %>%
63   view
64 #here the code is changing the kilogram to gram
65 #it can be done only by multiplying it by 1000
66 msleep %>%
67   mutate(brafnwt_in_grams = brafnwt*1000)%>%
68   view

```

Global Environment

Data

msleep 83 obs. of 11 variables

Files Plots Packages Help Viewer Presentation

R: An updated and expanded version of the mammals sleep dataset

msleep (ggplot2)

An updated and expanded version of the mammals sleep dataset

Description

This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. *Proceedings of the National Academy of Sciences*, 104 (3): 1051-1056, 2007.

Usage

```
msleep
```

Format

A data frame with 83 rows and 11 variables:

name	common name	genus	vore	carnivore, omnivore or herbivore?	order	conservation	the conservation status of the animal
------	-------------	-------	------	-----------------------------------	-------	--------------	---------------------------------------

brafnwt
NA
15.50
NA
0.29
423.00
NA
NA
NA
70.00
98.20
115.00
5.50
NA
6.40
1.00
6.60
0.14
10.80
10.80

The screenshot shows the RStudio environment. At the top, the 'Global Environment' tab is active, displaying 'Data' and 'msleep' with 83 observations and 11 variables. Below this, the 'Files' pane shows the 'msleep' package directory. The 'Packages' pane lists installed packages, including 'ggplot2'. The 'Viewer' pane displays the R documentation for the 'msleep' package, which is an updated and expanded version of the 'mammals sleep dataset'.

Files **Plots** **Packages** **Help** **Viewer** **Presentation**

R: An updated and expanded version of the mammals sleep dataset - Find in Topic

msleep (ggplot2) R Documentation

An updated and expanded version of the mammals sleep dataset

Description

This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. *Proceedings of the National Academy of Sciences*, 104 (3):1051-1056, 2007.

Usage

```
msleep
```

Format

A data frame with 83 rows and 11 variables:

```
name
  common name

genus
  vore

  carnivore, omnivore or herbivore?

order
  conservation

  the conservation status of the animal
```

brainwt	bodywt	brainwt_in_grams
NA	50.000	NA
0.01550	0.480	15.50
NA	1.350	NA
0.00029	0.019	0.29
0.42300	600.000	423.00
NA	3.850	NA
NA	20.490	NA
NA	0.045	NA
0.07000	14.000	70.00
0.09820	14.800	98.20
0.11500	33.500	115.00
0.00550	0.728	5.50
NA	4.750	NA
0.00640	0.420	6.40
0.00100	0.060	1.00
0.00660	1.000	6.60
0.00014	0.005	0.14
0.01080	3.500	10.80

```
57 arrange(order) %>%
58 view
59 #mutate function usage
60 #here the mutate function is used for changing the observation
61 msleep %>%
62 mutate(brainwt-brainwt*1000) %>%
63 view
64 #here the code is changing the kilogram to gram
65 #it can be done only by multiplying it by 1000
66 msleep %>%
67 mutate(brainwt_in_grams = brainwt*1000)%>%
68 view
69 #the above code creates a column "brainwt_in_grams" and stores the gram values
70
71
72 msleep$brainwt
73 # it displays the all the values present in brainwt column
74 msleep$brainwt > 0.01
75 # as the above code we can see that NA is present in the column and few value are present
76 #conditional change (if_else)
77 #logical vector based on a condition
78 size_of_brain <- msleep %>%
79 select(name,brainwt) %>%
80 drop_na(brainwt) %>%
81 mutate(brain_size = if_else(brainwt > 0.01 ,
82                             "large",
83                             "small"))
84
85 size_of_brain
86 # this code drops/eliminates NA value and it is been sagrated the values which are greater than 0.01
87
88 #recode data and rename a variable
89 size_of_brain %>%
```

```
R 4.2.1
[1] 0.00100 0.00660 0.00014 0.01080 0.01230 0.00630 4.60300 0.00030 0.65500 0.41900 0.00350 0.11500 NA 0.02360
[29] 0.00500 NA NA 0.32500 0.01227 1.32000 NA 5.71200 NA 0.17900 NA 0.00100 NA 0.00040
[43] 0.00025 NA 0.01250 NA NA 0.01210 0.17500 0.44000 NA 0.13700 NA 0.18000 0.00240 NA
[57] NA 0.01140 NA NA NA 0.08100 0.02100 0.00190 NA 0.02000 0.00120 0.00118 0.00100 0.00370
[71] 0.00400 NA 0.00033 0.18000 0.02500 NA 0.16900 0.00260 0.00250 NA 0.01750 0.04450 0.05040
> # it displays the all the values present in brainwt column
> msleep$brainwt > 0.01
[1] NA TRUE NA FALSE TRUE NA NA NA TRUE TRUE TRUE FALSE NA FALSE FALSE FALSE TRUE TRUE
[20] FALSE TRUE FALSE TRUE TRUE FALSE TRUE NA TRUE FALSE NA NA TRUE TRUE TRUE NA TRUE NA TRUE
[39] NA FALSE NA FALSE FALSE NA TRUE NA NA TRUE TRUE TRUE NA TRUE NA TRUE FALSE NA NA
[58] TRUE NA NA TRUE TRUE FALSE NA TRUE FALSE FALSE FALSE FALSE NA FALSE TRUE TRUE NA
[77] TRUE FALSE FALSE NA TRUE TRUE TRUE
> # as the above code we can see that NA is present in the column and few value are present
> #conditional change (if_else)
> #logical vector based on a condition
> size_of_brain <- msleep %>%
+ select(name,brainwt) %>%
+ drop_na(brainwt) %>%
+ mutate(brain_size = if_else(brainwt > 0.01 ,
+                             "large",
+                             "small"))
+
+
+
>
```

msleep (ggplot2)

An updated and expanded version of the mammals sleep dataset

Description

Usage

msleep

Format

A data frame with 83 rows and 11 variables:

name

common name

genus

vore

carnivore, omnivore or herbivore?

order

conservation

the conservation status of the animal

```
58 view
59 #mutate function usage
60 #here the mutate function is used for changing the observation
61 msleep %>%
62 mutate(brainwt-brainwt*1000) %>%
63 view
64 #here the code is changing the kilogram to gram
65 #it can be done only by multiplying it by 1000
66 msleep %>%
67 mutate(brainwt_in_grams = brainwt*1000)%>%
68 view
69 #the above code creates a column "brainwt_in_grams" and stores the gram values
70
71
72 msleep$brainwt
73 # it displays the all the values present in brainwt column
74 msleep$brainwt > 0.01
75 # as the above code we can see that NA is present in the column and few value are present
76 #conditional change (if_else)
77 #logical vector based on a condition
78 size_of_brain <- msleep %>%
79 select(name,brainwt) %>%
80 drop_na(brainwt) %>%
81 mutate(brain_size = if_else(brainwt > 0.01 ,
82                             "large",
83                             "small"))
84
85 size_of_brain
86 # this code drops/eliminates NA value and it is been sagrated the values which are greater than 0.01
87
88 #recode data and rename a variable
89 size_of_brain %>%
```

```
R 4.2.1
# A tibble: 56 x 3
  name          brainwt brain_size
  <chr>          <dbl>    <chr>
1 Owl monkey    0.0155 large
2 Greater short-tailed shrew 0.00028 small
3 Cow           0.423 large
4 Dog           0.07 large
5 Roe deer      0.0982 large
6 Goat          0.115 large
7 Guinea pig    0.0053 small
8 Chinchilla    0.0066 small
9 Star-nosed mole 0.001 small
10 African giant pouched rat 0.0066 small
# with 46 more rows
# i use 'print(n = ...)' to see more rows
>
```

msleep (ggplot2)

An updated and expanded version of the mammals sleep dataset

Description

Usage

msleep

Format

A data frame with 83 rows and 11 variables:

name

common name

genus

vore

carnivore, omnivore or herbivore?

order

conservation

the conservation status of the animal

```
// msleepbrainmut
73 # it displays the all the values present in brainmut column
74 msleepbrainmut > 0.01
75 # as the above code we can see that NA is present in the column and few value are present
76 #conditional change (if,else)
77 #logical vector based on a condition
78 size_of_brain <- msleep %>%
79   select(name,brainmut) %>%
80   drop_na(brainmut) %>%
81   mutate(brain_size = if_else(brainmut > 0.01 ,
82                                "large",
83                                "small"))
84
85 size_of_brain
86 # this code drops/eliminates NA value and it is been sagrated the values which are greater than 0.01
87
88 #recode data and rename a variable
89 size_of_brain %>%
90   mutate(brain_size= recode(brain_size,
91                              "large"=1,
92                              "small"=2))
93
94 #this code it change the brain_size column into 1 and 2 where 1 states that it has large brain
95 #and 2 states that it has small brain
96 #reshape the data from wide to long or long to wide
97 #install.packages("gapminder")
98 #library(gapminder)
99 view(gapminder)
100 data <- select(gapminder,country,year,lifeexp)
101 # it selects the particular columns it is store in dataframe called data
102 view(data)
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Files | Plots | Packages | Help | Viewer | Presentation

R: An updated and expanded version of the mammals sleep dataset - Find in Topic

msleep (ggplot2)

R Documentation

An updated and expanded version of the mammals sleep dataset

Description

This is an updated and expanded version of the mammals sleep dataset. Updated sleep times and weights were taken from V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. Proceedings of the National Academy of Sciences, 104 (3):1051-1056, 2007.

Usage

msleep

Format

A data frame with 83 rows and 11 variables:

name

common name

genus

vore

carnivore, omnivore or herbivore?

order

conservation

the conservation status of the animal

```
country 1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 2002 2007
1 Afghanistan 28.001 30.33200 31.98700 34.02000 36.08800 38.48800 39.854 40.822 41.674 41.763 42.129 43.828
2 Albania 55.230 58.28000 64.82000 66.22000 67.69000 68.93000 70.420 72.000 71.581 72.950 73.651 76.423
3 Algeria 43.077 45.65000 48.30000 51.40700 54.51800 58.01400 61.368 65.799 67.744 69.152 70.994 73.201
4 Angola 30.015 31.99900 34.02000 35.96300 37.82800 39.48300 39.942 39.906 40.647 40.963 41.003 42.731
5 Argentina 62.485 64.39900 65.14200 65.63400 67.08300 68.48100 69.842 70.774 71.868 73.275 74.940 75.320
6 Australia 69.120 70.33000 70.93000 71.10000 71.93000 73.49000 74.740 76.320 77.560 78.630 80.370 81.235
7 Austria 66.800 67.48000 69.94000 70.14000 70.63000 72.17000 73.180 74.940 76.040 77.510 78.660 79.629
8 Bahrain 50.899 53.83200 56.82000 58.82000 60.82000 62.82000 64.820 66.820 68.820 70.820 72.820 74.820
9 Bangladesh 37.454 39.34800 41.21600 43.45300 45.23200 46.93300 50.008 52.819 56.016 59.412 62.013 64.682
10 Belgium 68.000 69.24000 70.25000 70.94000 71.44000 72.80000 73.690 75.350 76.440 77.530 78.320 79.441
11 Benin 36.223 40.35000 42.81800 44.68500 47.01400 49.19000 50.904 52.337 53.919 56.777 54.406 56.738
12 Bolivia 40.414 41.89000 43.43000 45.03000 46.71400 50.03300 53.889 57.251 59.957 62.060 63.883 65.554
13 Bosnia and Herzegovina 53.620 58.45000 61.93000 64.79000 67.45000 69.66000 70.650 71.140 72.176 73.244 74.090 74.632
14 Botswana 47.622 49.61000 51.52000 53.29000 56.02400 59.31900 61.484 63.622 62.745 52.556 46.634 50.728
15 Brazil 50.917 53.28500 55.66500 57.63200 59.50400 61.48900 63.396 65.205 67.057 69.368 71.206 72.930
16 Bulgaria 59.600 66.61000 69.81000 70.42000 70.80000 70.81000 71.080 71.340 71.190 70.320 72.140 73.005
17 Burkine Faso 31.975 34.90600 37.81400 40.69700 43.59100 46.13700 48.122 49.557 50.280 50.324 50.650 52.295
18 Burundi 39.031 40.53300 42.04500 43.54800 44.05700 45.91000 47.471 48.211 44.736 45.326 47.360 49.590
```

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Bar charts and Histograms

