

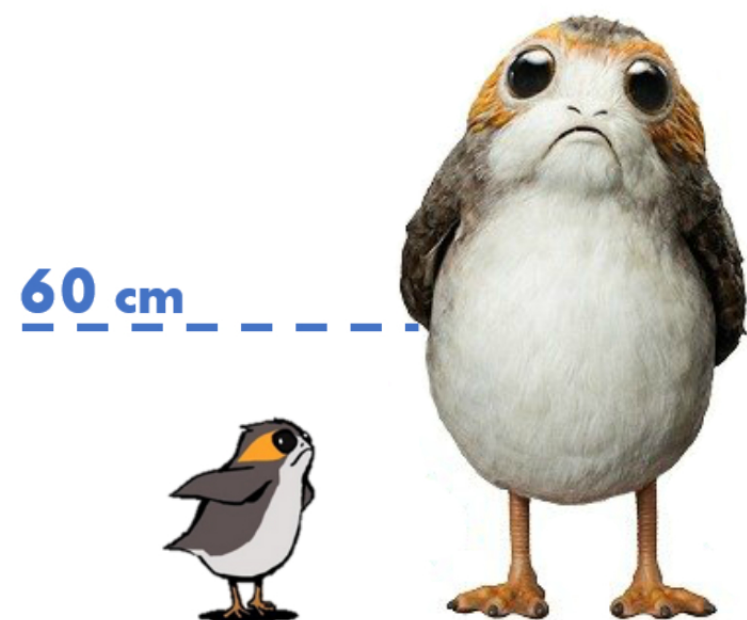
SELECT COLUMNS



```
library(dplyr)
# Keep only 2 columns
select(porgs, id, age)
# Drop the mass column
select(porgs, -mass)
# Put the age column first, but
# keep everything else the same
select(porgs, age, everything())
```

SORT ROWS

```
# Sort by age w/ YOUNGEST on top
arrange(porgs, age)
# Sort by age w/ ELDEST on top
arrange(porgs, desc(age))
# Sort by color and then by age
arrange(porgs, color, desc(age))
```



IFELSE: YES/NO CONDITIONS

Use `ifelse()` to create new values that depend on the value of another column. For example, to only label the porgs with a height over 60cm as “tall”.

```
# If a porg's height is > 60cm Label it as "tall",
# otherwise Label as "short"
mutate(porgs, label = ifelse(height > 60, "tall", "short"))
```

DATES



Convert text to Date

Function	Order of Input	Output
<code>mdy()</code>	Month-Day-Year :: 05-18-2019	2019-05-18
<code>mdy_hm()</code>	Month-Day-Year Hour:Minutes :: 05-18-2019 8:35	2019-05-18 08:35:00 UTC
<code>mdy_hms()</code>	Month-Day-Year Hour:Mins:Secs :: 05-18-2019 8:35:22	2019-05-18 08:35:22 UTC

Date parts

Function	Date element
<code>year()</code>	Year
<code>month()</code>	Month as 1,2,3
<code>day()</code>	Day of the month
<code>wday()</code>	Day of the week
<code>hour()</code>	Hour of the day (24hr)
<code>tz()</code>	Time zone

JOIN TABLES






`left_join()` keeps all rows and columns in the left table, but only keeps rows in the right table that match.

```
# Table w/ porg ages and heights
porgs
```

```
# Table w/ porg names
porg_names
```

```
# Join together by id columns
together <- left_join(porgs,
                      porg_names,
                      by = "id")
```

```
left_join(porgs, porg_names, by = "id")
```

porgs						porg_names	
id	porg	color	age	mass	height	id	name
1		yellow	5	36	66	1	Jumpity
2		yellow	6	41	72	2	Chicken little
3		gray	11	39	58	3	Sprinter
4		gray	12	43	53	4	Sunshine
5		yellow	3	39	79	5	Clawful

SAVE DATA

Data tables

```
library(readr)
# Save data to a CSV text file
write_csv(porgs, "my_porg_data.csv")
```

Plots and images

```
library(ggsave)
# Save the last plot you viewed
ggsave("2019_porg_plot.png")
# Save an earlier named plot
ggsave(best_plot, "the_best_plot.png")
```

? HELP!

Online

- Google: `r` or `rstats` + "question"
- [Stackoverflow.com](https://stackoverflow.com) + `[r]` tag
- Email us!

From R

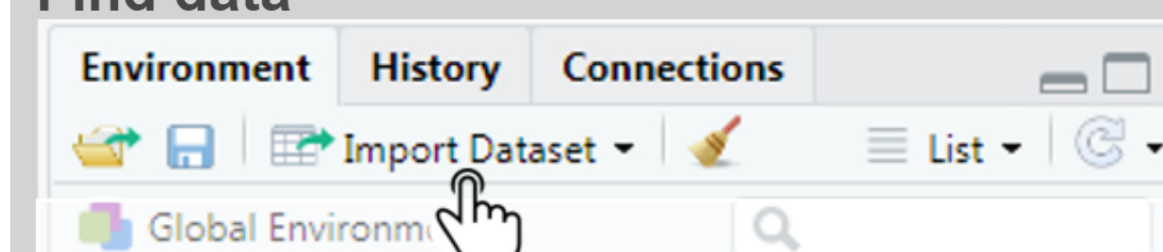
- Go to Help > Cheatsheets
- Type `?` in the Console

```
# Function help
?read_csv
# Search help
help.search("boxplot")
```


SHORTCUTS

- Run line: CTRL + ENTER
- Save script: CTRL + S
- Tidy code: highlight + CTRL + Shift + A

Find data



👥 R COMMUNITY

- `#rstats` on 
- [ROpenSci.org](https://ropensci.org)
- [RLadies.org](https://rladies.org)
- [R-Bloggers.com](https://r-bloggers.com)
- [useR](https://useR.org) Conferences

