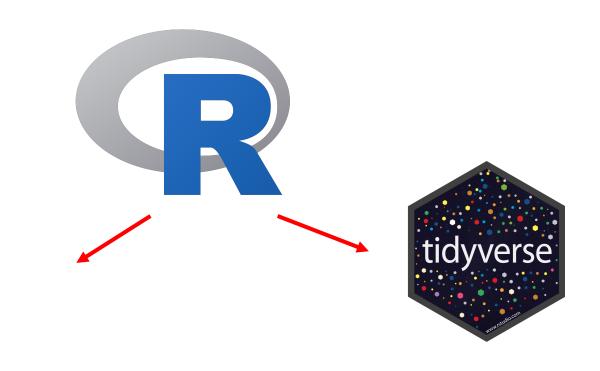
The basics of ggplot2

An overview of the most powerful R library for data visualization

Yan-holtz.com/teaching

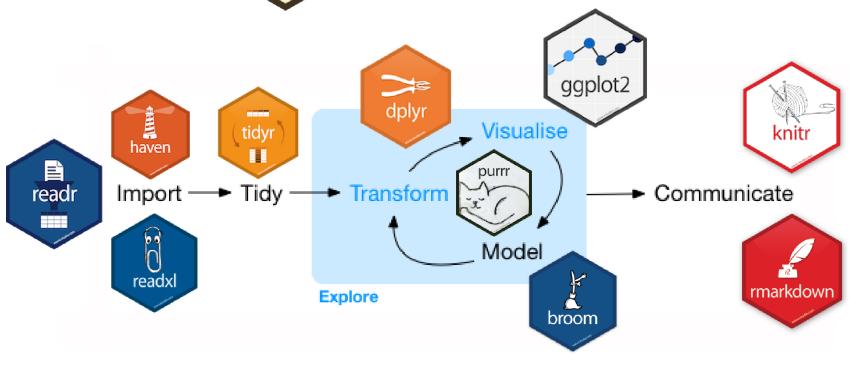


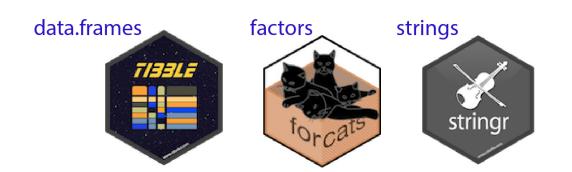
Base R

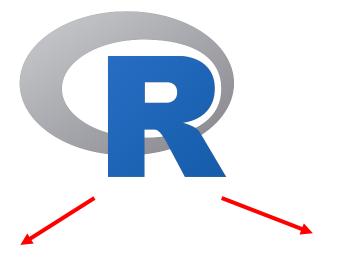




A collection of R packages designed for data science





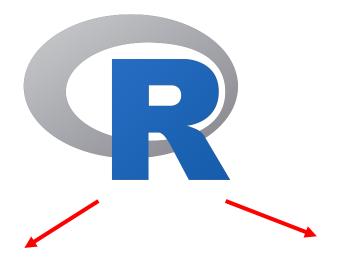


Base R

tidyverse

data[, "country"]

data %>%
 select(country)

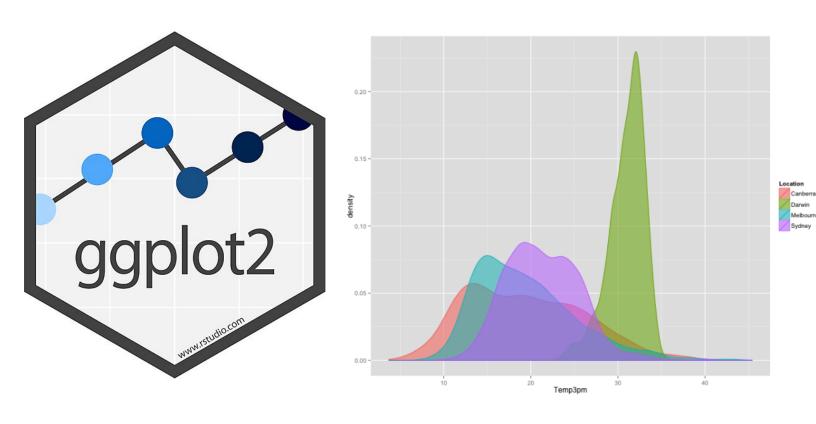


Base R



```
data[ which(data$year==2007), c("lifeExp", "gdpPercap","year")]
```

```
data %>%
select(lifeExp, gdpPercap, year) %>%
filter(year==2007)
```



- Creator: Hadley Whickam
- Based on the <u>G</u>rammar of <u>G</u>raphic

library(ggplot2)

ggplot()

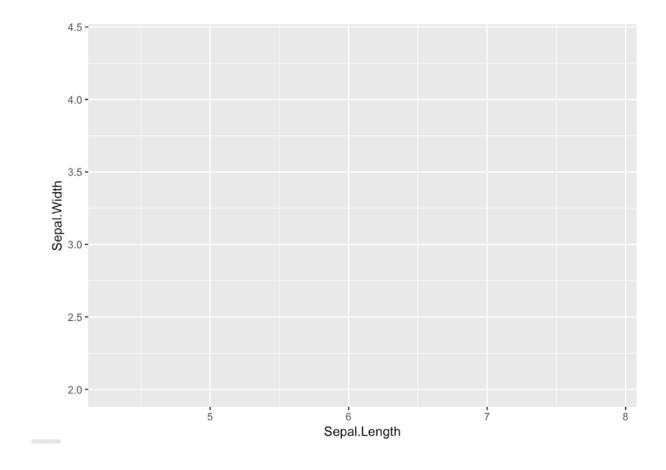
	Sepal.Length	Sepal.Width
Data	5.1	3.5
Data	4.9	3.0
	4.7	3.2

ggplot(data=data)

	Sepal.Length	Sepal.Width
Data	5.1	3.5
Data	4.9	3.0
	4.7	3.2

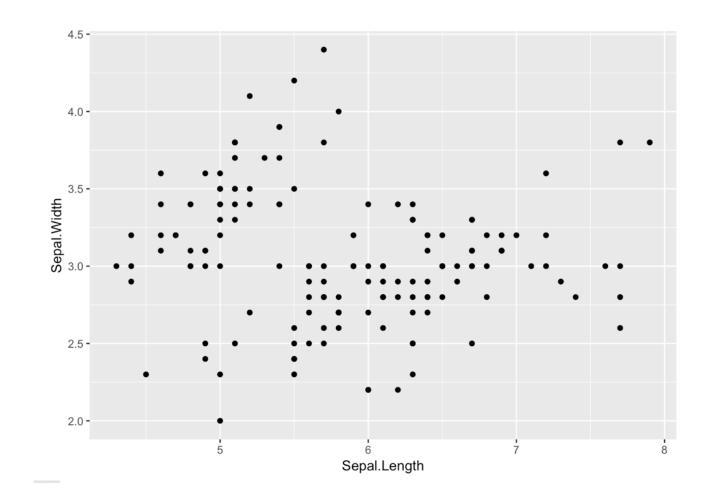
ggplot(data=data, aes(x=Sepal.Length, y=Sepal.Width))

	Sepal.Length	Sepal.Width
Data	5.1	3.5
Data	4.9	3.0
	4.7	3.2

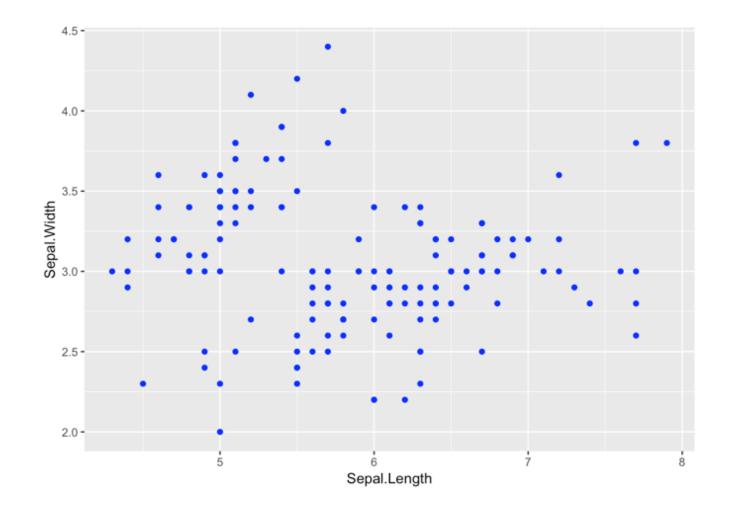


D	a	ta	a
	u	U	u

Sepal.Length	Sepal.Width
5.1	3.5
4.9	3.0
4.7	3.2

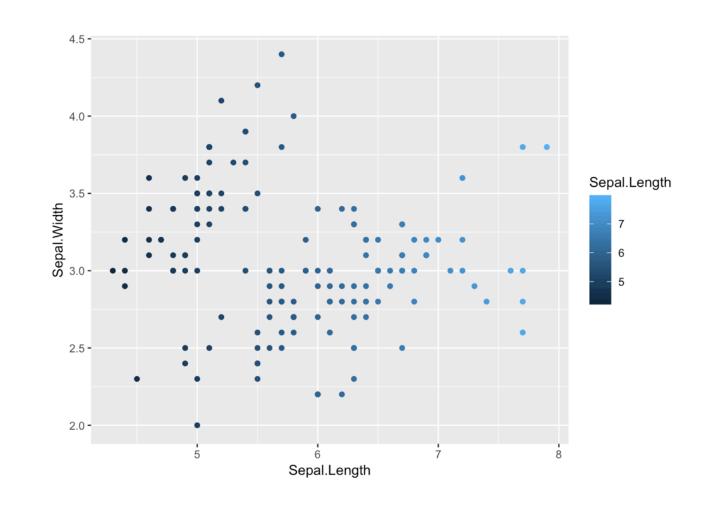


Sepal.Length	Sepal.Width
5.1	3.5
4.9	3.0
4.7	3.2

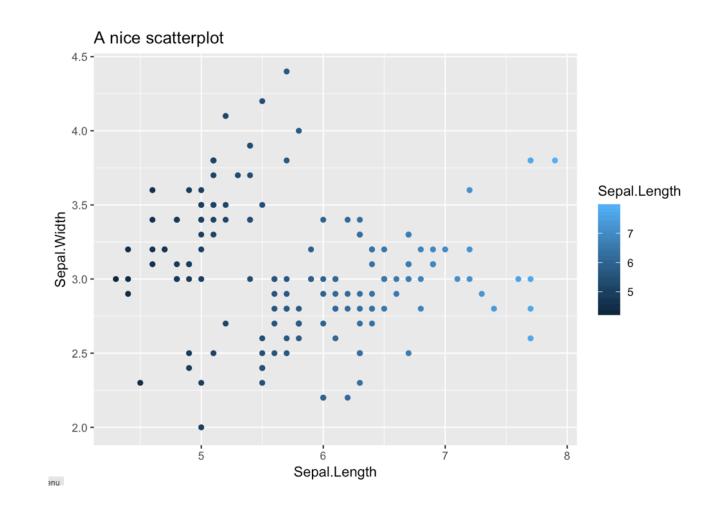


Data

	Sepal.Length	Sepal.Width
Data	5.1	3.5
Dala	4.9	3.0
	4.7	3.2



	Sepal.Length	Sepal.Width
Data	5.1	3.5
Dala	4.9	3.0
	4.7	3.2



earn by doing

Useful link

oltz.com/teaching

Cheatsheet: link

Home: link

R Graph Gallery: R-graph-gallery.com

Thanks

Slides:

Yan-holtz/teaching



Yan.holtz.data@gmail.com



www.yan-holtz.com



@R_Graph_Gallery



github.com/holtzy