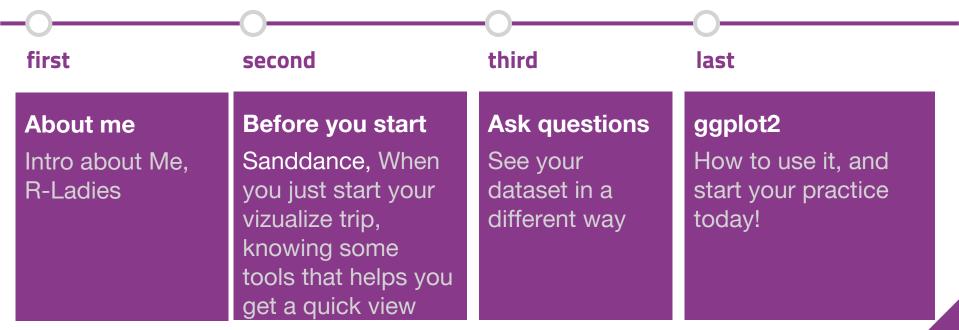
```
library(dplyr)
r-ladies global %>%
  filter(from = 'Taipei', travel to = 'Berlin')
```



DATA VISUALIZATION R-LADIES BERLIN X R-LADIES TAIPEI MIA

The Agenda







1. About me

Intro about Me, R-Ladies.

https://rladiestaipei.github.io/R-Ladies-Taipei/





Hello!

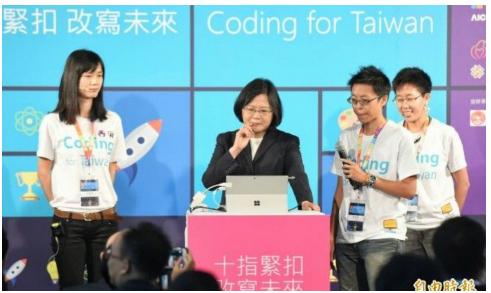
I am Mia Chang (張懷文).

- Data Consultant
- Lecturer
- Member of <u>R-Ladies Taipei</u>
- Co-founder of <u>Azure Taiwan Community</u>
- Microsoft Most Valuable Professionals (MVP) 2017
- mia5419@gmail.com









- Founded in 2014
- every month in Taipei,
- Our history: goo.gl/HbHNeP

R-Ladies Taipei, together with PyLadies and Girls in Tech Taiwan, teaches Taiwan President Tsai how to code in the event of "Hour of Code 2016" held by Microsoft Taipei.



2. Before you start

Sanddance, When you just start your vizualize trip, knowing some tools that helps you get a quick view

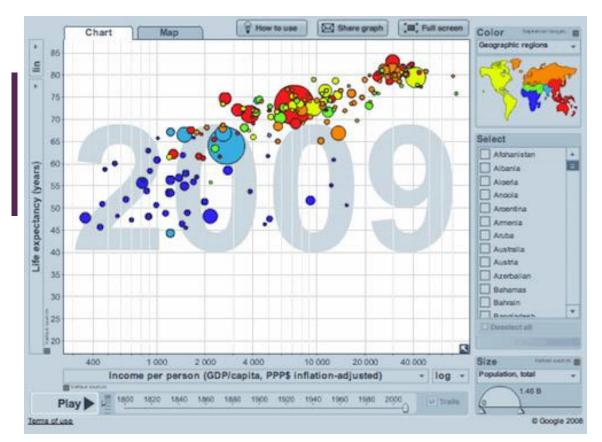




FILMED FEBRUARY 2006 AT TED2006
HANS ROSLING: THE BEST STATS YOU'VE EVER SEEN









Sanddance

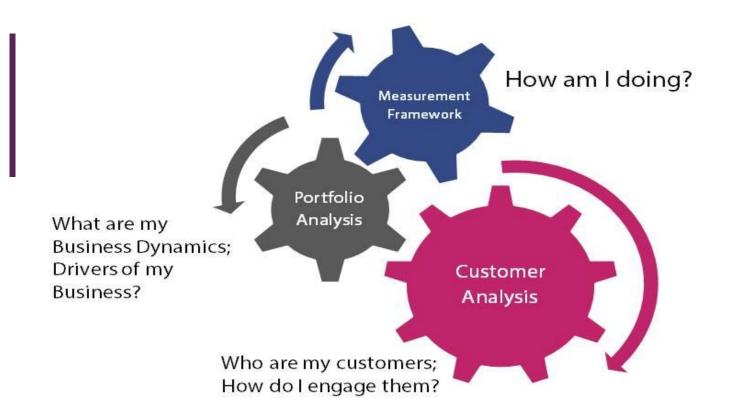
Have some pictures about your data and different chart https://sanddance.azurewebsites.net/beachPartyApp/BeachPartyApp.html



Ask Questions, See your dataset in a different way

Three Key Analytics Questions







Some examples,

https://hackpad.com/HackNTU-R-report-pQRRFd2Cn3A



Hi ggplot2, How to use it, and start your practice today!



Visit Dataset

http://docs.ggplot2.org/current/

Documents

https://www.rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf

☐ THE GRAMMAR OF GGPLOT



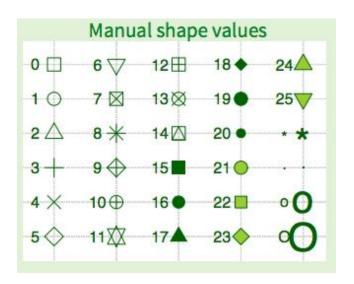
```
aesthetic mappings
                                data
                                           geom
qplot(x = cty, y = hwy, color = cyl, data = mpg, geom = "point")
 Creates a complete plot with given data, geom, and
 mappings. Supplies many useful defaults.
ggplot(data = mpg, aes(x = cty, y = hwy))
 Begins a plot that you finish by adding layers to. No
 defaults, but provides more control than gplot().
         data
                                            add layers,
                                          elements with -
ggplot(mpg, aes(hwy, cty)) +
 geom_point(aes(color = cyl)) +
                                          layer = geom +
 geom smooth(method ="lm") +
                                           default stat +
                                           layer specific
 coord cartesian() +
                                            mappings
 scale color gradient() +
 theme bw()
                                            additional
```

elements



BASIC VISUALIZATION CLASS 3

- COLOR,
- # FILL SCALES,
- SHAPE SCALES,
- * FACING
- * MORE





LET'S TALK ABOUT DATA VISUALIZATION

* LONG FORMAT VS WIDE FORMAT

WIDE FORMAT (X)

IDNumbers	Name	Class1	Class2
001	Rose	1	0
002	Jack	0	1

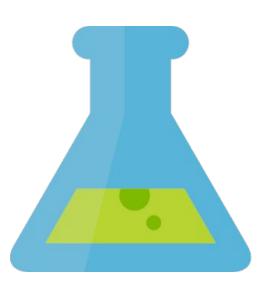
LONG FORMAT (V)

IDNumbers	Name	Class	Is Survived
001	Rose	1	1
002	Jack	2	0

Visualization in ggplot2



Let's Demo!





RESOURCE SHARING

THE R GRAPH GALLERY - GGPLOT2



RECAP TODAY & RESOURCE SHARING

MEETUP

HTTPS://WWW.MEETUP.COM/R-LADIES-TAIPEI/

HTTPS://WWW.MEETUP.COM/AZURE-TAIWAN/



ONLINE COURSE

HTTPS://WWW.DATACAMP.COM/COURSES?LEARN=DATA_VISUALIZATION

TED

HTTPS://WWW.TED.COM/TOPICS/VISUALIZATIONS

CODE GUILD

HTTPS://GOOGLE.GITHUB.IO/STYLEGUIDE/RGUIDE.XML

FACEBOOK PAGE

HTTPS://WWW.FACEBOOK.COM/TERADATA/

HTTPS://WWW.FACEBOOK.COM/GRAPHICSSPEAK/

HTTPS://WWW.FACEBOOK.COM/KAGGLE/

HTTPS://WWW.FACEBOOK.COM/RBLOGGERS/

HTTPS://WWW.FACEBOOK.COM/VISUALNEWS/

Thanks for your listening!

R-Ladies Taipei

Look forward to your visit to R-Ladies Taipei! Also Azure Taiwan!







Bye!

I am Mia Chang (張懷文)

mia5419@gmail.com