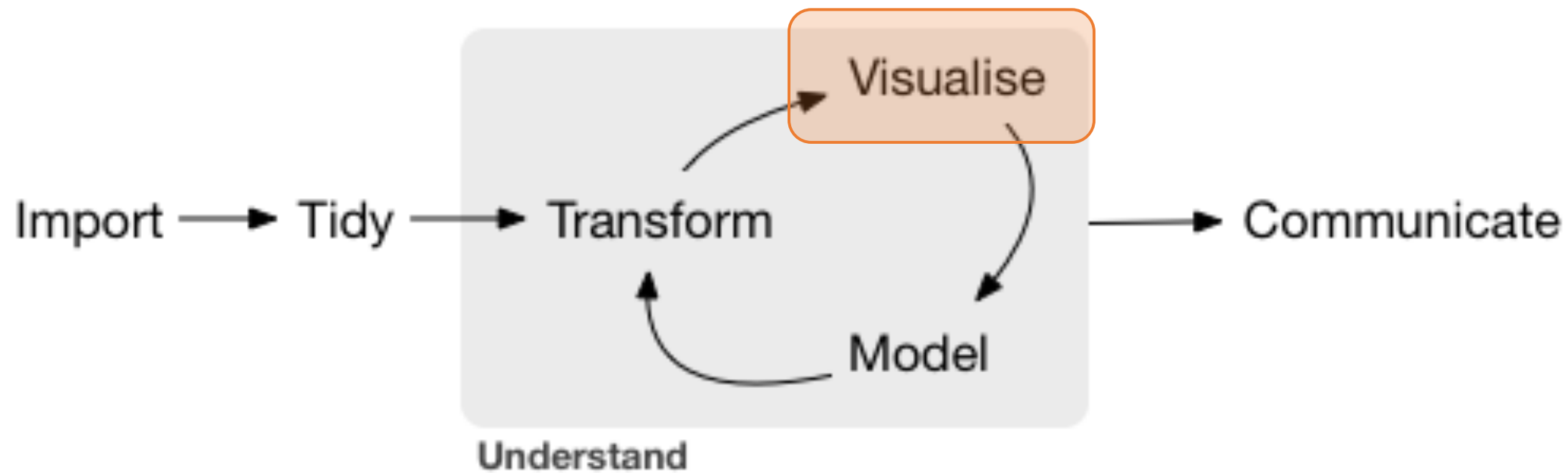




Week 9: Plotting with ggplot2 (III)



What have we learned so far?



Geometric objects

- `geom_point ()`
- `geom_histogram ()`
- `geom_bar ()`
- `geom_boxplot ()`
- `geom_col ()`

Scales

- `scale_color_brewer ()`
- `scale_color_manual ()`

Themes

- `theme_bw ()`
- `theme ()`

Let's get set

- Create an R project for this session and name it “session_9”
- Download the script file (.R) and place them in the folder “session_9”
- Open the script file
- Load the tidyverse package
- Import the data file and name it “sinai_covid”

Facets

- Another way to add additional variables, is to split your plot into subplots that each display one subset of the data.
 - `facet_grid()`
 - `facet_wrap()`
- `ggarrange`

Your turn! Exercise 1

- Plot the relationship between age (x) and Systolic BP (y) using `geom_point`, faceting by diabetes status

Your turn! Exercise 2

- Use `geom_boxplot` to plot the relationship between `deceased_indicator` (x) and `age` (y), faceting by facility

Adding a smooth line fitted to the data

- It can be hard to view trends with just points alone. Many times we wish to add a smoothing line in order to see what the trends look like. This can be especially helpful when trying to understand regressions.
 - `geom_smooth ()`

Your turn! Exercise 3

- Plot the relationship between diastolic_bp(x) and bmi (y), adding a fitted line by obesity status
- Add color by obesity status
- Add a title

Your turn! Exercise 4

- Try to recreate this plot

