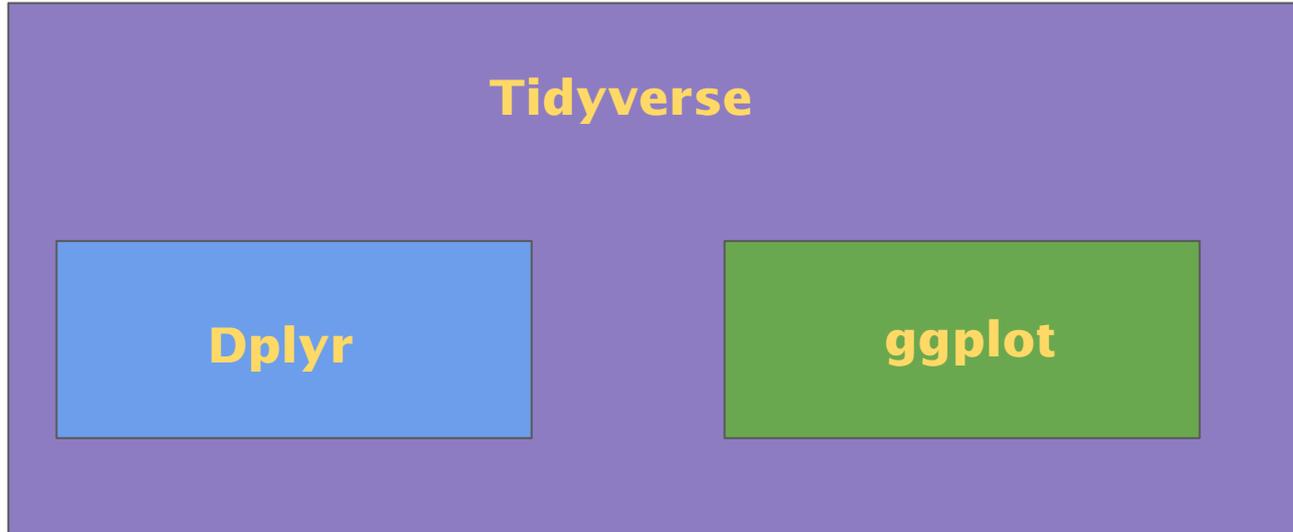# Week 6: ggplot!

Elena & Willa
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ggplot - the prettiest way to plot

Comparing ggplot and dplyr syntax

Similarities

- Basic syntax is a list of commands, with each command on a new line.

Differences

- Uses "+" instead of %>%
- Order of commands doesn't matter (except for first command calling "ggplot")

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Constructing a plot in ggplot

Unlike baseR, ggplot works with ***dataframes*** not vectors!

1. Call "ggplot" : Here we specify the dataframe, variables of interest and any grouping variables

   ```
   ggplot(data = <my dataframe>, aes ( x = <xvalue>, y = <yvalues>))
   ```

   aes => aesthetic mapping: Tell it how to map the variables in your dataframe to visual properties (ie how should the data be arranged).

2. geom_---(): geometric objects to add to your plot.

   ```
   ggplot (data = df, aes(x= xval, y = yval)) + geom_point()
   ```

   Geoms can also contain additional data and/or asthetic mappings.

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Lets try it out!