

- Start a plot with the `ggplot()` function.
  - Nothing *needs* to go in the brackets—it can all go elsewhere.
  - The line ends with a plus (+) to say “more is coming”
- Blue dots at the beginning of a line indicate that this line is not necessary because it is the default in this case.

**A** `ggplot()` +

**B** `scale_x_discrete()` +  
`scale_y_continuous()` +  
`coord_cartesian()` +  
`facet_wrap(~ Age)` +  
`ylab("Mean wingspan of prey items\n eaten by individual bats")` +

Here we specify any features of the whole plot we like to control, like the types of scale, the coordinate system, any facets, and labels.

**C** `layer(`  
`data      = prey_stats,`  
`geom      = "point",`  
`mapping   = aes(x = Sex, y = mean_wingspan),`  
`stat      = "identity",`  
`position  = position_jitter(width=0.1)`  
`)` +

Here we add a first layer to the plot. It makes the black points in the figure. We specify each of five elements of a layer.

**D** `layer(`  
`data      = mean_prex_stats,`  
`geom      = "point",`  
`mapping   = aes(x = Sex, y = sex_mean_wingspan),`  
`stat      = "identity",`  
`position  = "identity",`  
`params    = list(size = 4,`  
`col = "blue",`  
`alpha = 0.5)`  
`)`

Here we add a 2nd layer. This one adds the two larger blue dots. As well all the five features of a layer, we specify some additional parameter, here about the size, colour, and transparency (alpha) of the points