

# The *grammar of* *graphics*

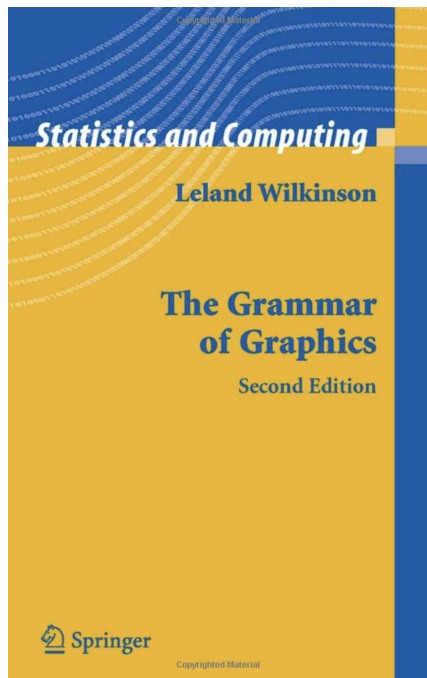
EC 103–02

Marcio Santetti

# The ggplot2 package

# The `ggplot2` package

The `ggplot2` package is an R package developed by [Hadley Wickham](#), based on the “grammar of graphics.”



# The `ggplot2` package

One of the most appealing aspects of `ggplot2` is that it maps *(tidy) data* to **aesthetics**.

It works by adding **layers** to an initial blank “canvas.”

Instead of working with pre-made graphics (as in Excel), we are able to build custom plots by adding incremental pieces of information.

# The `ggplot2` package

The main pieces of information that go into a *ggplot* are:

1. Your variables (the *aesthetics*);
2. The selected *geometries* (`geom_`);
3. Subsequent formatting options (scales, themes, titles, subtitles, etc.)

# The `ggplot2` package

The `ggplot2` package is part of the tidyverse (no need to install anything new).

Let us make sense of these first concepts by working with the `gapminder` package.