

Required

## Data

Variables and **data types** to be represented

`data %>% <some dplyr> %>% ...`

## Aesthetics

Visual **channel** that can be mapped to variable in data

`x,y, colour, shape, size, alpha, angle, ...`

## Geom

Shapes, or **marks**, used to represent data

`geom_point(), geom_line(), geom_bar(), ...`

## Statistics

Aggregates using statistical models

`stat_count(), stat_density(), stat_quantile(), ...`

## Scale

Derived from the mapping of values in data to specified aesthetic.

`scale_*_continuous(), scale_*_discrete(), scale_*_datetime(), ...`

## Coordinates

Coordinate system to transform to

`coord_cartesian(), coord_polar(), coord_map(), ...`

## Facets

Condition on variable to divide plot into subsets for comparison

`facet_wrap(), facet_grid()`

## Themes

Fonts, colours and other design elements

`theme_bw(), theme_classic(), theme_minimal(), ...`

Not required (sensible defaults)