

BLOCK 1 - INTRODUCTION TO GGPLOT

1. Introduction to ggplot logic
2. Building a simple plot in ggplot: `ggplot(data, aes()) + geom_()`

BLOCK 2 - GEOMETRIES: `geom_()`

BLOCK 2.1. - BASIC GRAPHS

3. Scatterplot: `geom_point()`
4. Line graphs: `geom_line()`
5. Area graphs: `geom_area()`
6. Barplot : `geom_bar()`

BLOCK 2.2. - DISTRIBUTION GRAPHS: frequency and density graphs

7. Histogram: `geom_histogram()`, `geom_bar()` [frequency]
8. Frequency polygon: `geom_freqpoly()` [frequency]
9. Density curve: `geom_density()` [density]
10. Boxplot: `geom_boxplot()` [frequency]
11. Violin plot: `geom_violin()` [density]
12. 2D Frequency map: `stat_bin2d()` [frequency]
13. 2D Density map: `stat_density2d()` [density]

BLOCK 2.3. - GEOREFERENCED GRAPHS: MAPS

14. Georeferenced graphs – Maps: `geom_polygon()`, `geom_point()`, `geom_path()`, `geom_raster()`, `coord_quickmap()`, `coord_map()`, `borders()`; `layer_spatial()`, `coord_sf()`, `annotation_scale()`, `annotation_north_arrow()`

BLOCK 3 - OPTIONAL LAYERS: `facet_()`, `stat_()`, `scale_()`, `coord_()`, `labs()`, `annotate()`, `theme()`, ...

15. Facets: `facet_grid()`, `facet_wrap()`
16. Stats: `stat_()`
17. Scales: `scale_()`
18. Coordinates: `coord_()`
19. Titles and labs: `ggtitle()`, `labs()`, `*lab()`
20. Annotations: `annotate()`, `geom_text()`, `geom_*line()`, `geom_errorbar()`, `geom_crossbar()`, `geom_linerange()`, `geom_pointrange()`
21. Theme: `theme()`

BLOCK 4: SAVE FIGURES AND MORE

22. Save figures: `ggsave()`, `save_plot()`
23. ggplot extensions

BLOCK 5: ANIMATED GRAPHS: `{gganimate}`

24. Introduction to animated graphs
25. Grammar of `{gganimate}`: `transition_*`(), `view_*`(), `shadow_*`(), `enter_*`()/`exit_*`()
`ease_aes()`
26. Render (save) animated graphs