base R basic

Add title - main = ""
Add labels - xlab = "", ylab = ""
Change color - col = """
Change point size - cex = ""
Change point symbol - pch = ""
Change line width - lwd = ""
Change line type - lty = ""
Set axis limits - xlim = "", ylim = ""
Add legend - legend()
Add points - points()
Add text - text()

Line

base R - line()
ggplot2 - geom_smooth()
Vertical line - geom_vline()
Horizontal line - geom_hline

Straight line / Linear Model

base R - abline(`intercept`, `slope`)
ggplot2 - geom_abline(aes(`intercept`, `slope`))

Density

base R - lines(density())
ggplot2 - geom_density()

Density contour lines

geom_density_2d()

Histogram

base R - hist()
ggplot2 - geom_hist()
Density - <aes(x = `variable`, y = ..density..)>
Cumulative - <y = cumsum(..count..)>

Boxplot

base R - boxplot()
ggplot2 - geom_boxplot()

ggplot2 basic

ggplot(`data`) + **ggplot2**
  GEOM_FUNCTION(mapping = aes(`variable`)) +
  COORDINATE_FUNCTION() +
  FACET_FUNCTION() +
  SCALE_FUNCTION() +
  THEME_FUNCTION() +
  LABEL_FUNCTION
Flip coordinates - coord_flip()
Fix scale coordinate system - coord_fixed(ratio = "")
Wrap facets by variable - facet_wrap(~`variable`)
Theme - theme_grey()
Centralize title - theme(plot.title=element_text(hjust=0.5))
Add labels - labs(title = "", x = "", y = "")
Add fill - fill = ""
Add alpha blending - alpha = ""
Change color - color = ""
Change point size - size = ""
Customize color range - scale_fill_distiller(palette = "")

Violin plot

geom_violin()

Ridgeline plot

geom_density_ridges() **ggridges**

Q-Q plot

qqnorm()
qqline()

Bar chart

base R - barplot()
ggplot2 - geom_bar()
Stacked - <aes(x = `variable`, fill = `variable`)>
Grouped - geom_bar(position = "dodge")

Cleveland dot plot

geom_point()

Scatterplot

base R - plot(x, y) / plot(y~x)
ggplot2 - geom_point()
Interactive - ggplotly() **plotly**
Matrix - pairs()

Parallel coordinates plot

Static - ggparcoord() **GGally**
  <alphaLines = ""> #alpha blending
  <scale = ""> #scaling
  <splineFactor = ""> #spline
Interactive - parcoords() **parcoords** **d3r**

Biplot

draw_biplot() **redav**
With calibrated axis - <"variable">
With projection lines - <project = TRUE>

Mosaic plot

mosaic(~`variable`, direction = "") **library(grid)** **library(vcd)**
  <~`v1` ~ `v2` + `v3`, direction = "v"> #with more than one variables
  <direction = c("v", "v", "h")> #"vertical" and "horizontal"
  <rot_labels = c(0,0,0,0)> #rotate the labels
pairs plot - pairs()

Alluvial diagram

geom_flow() / geom_alluvium() + **ggalluvial**
  geom_stratum() +
  geom_label() / geom_text()
  <aes((fill = `variable`))> #color by which variable

Heatmap

geom_tile
Hexagonal - geom_hex()
Square - geom_bin_2d()

Group multiple plots

Combination - par(mfrow = c(`row`,`col`))
Arrange - grid.arrange()