

<p><b>Read in data</b></p> <p>read_csv(): comma separated (CSV) files</p> <p>read_tsv(): tab separated files</p> <p>read_delim(): general delimited files</p> <p>read_fwf(): fixed width files</p> <p>read_table(): tabular files where columns are separated by white-space.</p> <p>read_log(): web log files</p>	<p><b>ggplot2 (check in R for more information)</b></p> <p>ggplot (data = ) +</p> <p>&lt;Geom_function&gt;(mapping = aes(&lt;Mapping&gt; ), stat = &lt;STAT&gt;, position = &lt;Position&gt;) +</p> <p>&lt;Coordinate_Function&gt; +</p> <p>&lt;Facet_Function&gt; +</p> <p>&lt;Scale_Function&gt;+</p> <p>&lt;Labels_Function&gt;+</p> <p>&lt;Theme_Function&gt;</p>	<p><b>Remove ggplot components:</b></p> <p>rrmove( Object ), object list:</p> <ol style="list-style-type: none"> <li>both x and y grids: grid</li> <li>x axis grids: x.grid</li> <li>y axis grids: y.grid</li> <li>both x and y axes: axis</li> <li>x axis : x.axis</li> <li>y.axis for y axis</li> <li>x axis label: xlab</li> <li>y axis label: ylab</li> <li>both x and y axis labels: xylab</li> <li>x axis texts: x.text</li> <li>y axis texts: y.text</li> </ol>
<p><b>Writing to file</b></p> <p>write_csv()</p> <p>write_tsv()</p> <p>write_excel_csv() — this writes a special character (a byte order mark) at the start of the file which tells Excel that you're using the UTF-8 encoding.</p> <p>eg.write_csv(challenge, challenge.csv)</p>	<p><b>Geom_function:</b></p> <ol style="list-style-type: none"> <li>geom_abline(aes(intercept=0, slope=1)) — line</li> <li>geom_hline(aes(yintercept = lat)) — horizontal line</li> <li>geom_vline(aes(xintercept = long)) — vertical line</li> <li>geom_density() — density curve</li> <li>geom_dotplot() — dot plot</li> <li>geom_histogram() — histogram plot</li> <li>geom_boxplot() — box plot</li> <li>geom_violin() — violin plot</li> <li>geom_bar() — bar chart for discrete variables</li> </ol>	<p><b>Dplyr:</b></p> <ol style="list-style-type: none"> <li>Mutate() — adds new variables that are functions of existing variables</li> <li>Select() — picks variables based on their names.</li> <li>Filter() — picks cases based on their values.</li> <li>Summarise() — reduces multiple values down to a single summary.</li> <li>Arrange() — changes the ordering of the rows.</li> </ol>
<p><b>Plot graph by basic R</b></p> <ol style="list-style-type: none"> <li>plot() — scatter plot</li> <li>pairs() — scatter plot matrices</li> <li>boxplot() — box plots</li> <li>lines() — Line plot</li> <li>pie() — pie plot</li> <li>plotix::pie3D() — 3D pie chart</li> <li>hist() — histogram</li> <li>density() — dentistry plot</li> <li>qqPlot() — Quantile-Quantile plots, check normality</li> <li>dotchart() — dot plot</li> </ol> <p><b>Parameters:</b></p> <ol style="list-style-type: none"> <li>Add labels: xlab=, ylab=,</li> <li>Add title: main=</li> <li>Add subtitle: sub =</li> <li>Add label of points: label=</li> <li>Change colour: col=</li> <li>Remover frame: frame=FALSE</li> <li>Change the symbol of points : pch =</li> <li>Change line width: lwd =</li> <li>Change line type: lty =</li> <li>Change break for histogram: breaks =</li> </ol>	<p><b>Coordinate_Function:</b></p> <ol style="list-style-type: none"> <li>coord_fixed(ratio) — fixed aspect ratio for x and y</li> <li>coord_flip() — flip coordinates</li> <li>coord_cartesian() — default coordinate system</li> </ol> <p><b>Facet_Function:</b></p> <ol style="list-style-type: none"> <li>facet_grid(cols=variable) — facet into columns based on a variable</li> <li>facet_grid(rows = variable) — facet into rows based on a variable</li> <li>facet_wrap(variable) — wrap facet into rectangle layout based on a variable</li> </ol> <p><b>Scale_Function:</b></p> <ol style="list-style-type: none"> <li>scale_*_continuous() - map cont' values to visual</li> <li>scale_*_discrete() - map discrete values to visual</li> <li>scale_*_identity() - use data values as visual ones</li> </ol> <p><b>Theme_Function</b></p> <ol style="list-style-type: none"> <li>theme_gray() — grey theme</li> <li>theme_bw() — black and white theme</li> <li>theme_light() — light theme</li> <li>theme_minimal() — minimal theme</li> <li>theme_void() — empty theme</li> </ol>	<p><b>Change text style in graph</b></p> <p><b>Font and colour:</b></p> <p>ggpar(&lt;graph&gt;,  font.title = c(14, "bold.italic", "red"), #change title's style  font.subtitle = c(10, "orange"), # change subtitle's style  font.caption = c(10, "orange"), # change caption's style  font.x = c(14, "blue"), # change x label's style  font.y = c(14, "#993333") # change y label's style  )</p> <p><b>Position:</b></p> <p>text direction: las = 1 (horizontal)</p> <p>justification: adj = 0 .5 1 (left, center, right)</p> <p><b>Style</b></p> <p>font face: font = 1 (plain) 2 (bold) 3 (italic) 4 (bold italic)</p>