Day 7 Cheatsheet

Data Visualization

Major concepts:

- ggplot2 A tidyverse package for producing graphics
- Tidy data: Each variable forms a column and each observation forms a row.

Functions

Library/Package	Piece of code	Example of usage	What it does	
ggplot2	ggplot()	GG Plot	Begins a plot that is finished by adding layers.	
ggplot2	aes()	Aesthetic Mappings	Designates how variables in the data object are mapped to the visual properties of the ggplot.	
ggplot2	<pre>geom_boxplot()</pre>	Boxplot	Creates a boxplot when added as a layer to a ggplot() object.	
ggplot2	<pre>geom_density()</pre>	Density Plot	Creates a smoothed plot when added as a layer to a ggplot() object based on the computed density estimate.	
ggplot2	<pre>geom_point()</pre>	Scatterplot	Creates a scatterplot when added as a layer to a ggplot() object.	
ggplot2	<pre>geom_line()</pre>	Line plot	Creates a line plot when added as a layer to a ggplot() object by connecting the points in order of the x axis variable.	
ggplot2	<pre>geom_hline()</pre>	Horizontal line	Annotates a plot with horizontal lines when added as a layer to a ggplot() object with one of the geom functions used to draw the plot, for example, geom_point().	
ggplot2	theme_classic()	Classic Theme	Displays ggplot without gridlines. The ggtheme documentation has descriptions on additional themes that can be used.	
ggplot2	<pre>xlab(); ylab(); ggtitle()</pre>	X Axis Labels; Y Axis Labels; GG Title	Modifies the labels on the x axis and on the y axis, and sets the title of a ggplot , respectively.	
ggplot2	<pre>facet_wrap()</pre>	Facet Wrap	Plots individual graphs using specified variables to subset the data.	
ggplot2	ggsave()	GG Save	Saves the last plot in working directory.	
ggplot2	last_plot()	Last plot	Returns the last plot produced.	

^{*} This format was adapted from the cheatsheet format from AlexsLemonade.