Day 8 Cheatsheet

Statistics

Functions

Library/Package	Piece of code	Example of usage	What it does
Base R	cor(x, y)	cor(x, y)	Calculate correlation of two vectors in R.
corrplot	<pre>corrplot(cor_mat)</pre>	<pre>corrplot(cor_mat, type = "upper", order = "hclust")</pre>	Create a correlation matrix plot.
Base R	<pre>t.test(x, y)</pre>	<pre>t.test(x, y, alternative = "two.sided")</pre>	Perform one and two sided t tests.
broom	tidy(x)	<pre>tidy(t_test_result)</pre>	Manipulates and tidies up wonky statistical R objects into nice data frames
Base R	<pre>wilcox.test(x, y)</pre>	<pre>wilcox.test(x, y)</pre>	Calculate non-parametric, Wilcoxon signed rank test, Wilcoxon rank sum test.
Base R	<pre>shapiro.test()</pre>	<pre>shapiro.test(x)</pre>	Test for normality with Shapiro-Wilk.
Base R	ks.test()	ks.test(x)	Test for normality with Kolmogorov-Smirnov.
Base R	<pre>var.test(x, y)</pre>	<pre>var.test(x, y)</pre>	Compare two variances with Fisher's F-test
Base R	<pre>chisq.test(x, y)</pre>	<pre>chisq.test(x, y)</pre>	Perform chi squared contingency tables and goodness of fit tests
Base R	lm(x ~ y)	$lm(x \sim y, data = df)$	Fit linear models based on a formula you provide.
Base R summary(x)	$summary (linear_mode$	l_resett) ns a summary of the values in object, including a linear model or other statistical test.	
Base R	glm(x ~ y)	<pre>glm(x ~ y, data = df, family = binomial())</pre>	Fit generalized linear models based on a formula you provide. Must specify the error distribution and link function using the family argument.

 $^{\ ^*}$ This format was adapted from the cheat sheet format from AlexsLemonade.