Cheatography

R Studio - tidyverse package Cheat Sheet by kaylahs via cheatography.com/171665/cs/36034/

Libraries to Impo	rt			
library(tidyverse)		library(broom)		
library(mosaic)		library(dplyr)		
Block 2 Quiz 1				
mutually exclusive		two cannot be concurrent		
independent		no relevance/in- fluence between 2 factors		
complement		opposite		
rbinom(# of trials, # of attempts within trial, success rate) mean(results > amt)		returns probab- ility of success that the amt is exceeded		
mean(rbinom(simulatedTrials, #ofAttempts, successRate))				
favstats(results)		finding 3rd quartile of probability		
quantile(results, 0.75)				
qbinom(0.75, size = #ofAttempts, prob = successRate)				
choose(n, k)		n choose k. different ways for result		
Block 1 GR				
Categorical	non-nu	non-number		
Numerical		can be categorized by number		
continuous	non-wł	non-whole #		
discrete	whole	whole #		
stratified sampling	some of all groups			

Block 1 GR (cont)		
cluster sampling	one group, all variables	
simple random sampling	random selection across all groups	
observational study	not experi- menting	
retrospective study	data collected after the fact	
prospective study	data collected during event	
skew	tail is what skew it is	
favstats(colforeachof~th- iscol, data = dataSet)	returns min, max, SD, mean, median	
explanatory variable	х	
response variable	у	
independence has no trend		
tally(~col1+col2, data = dataSet, format = "percen- t/decimal"	% of the dataset that applies to both	
tally((colforeachof~thiscol, data = dataSet, format = "- percent", margin = TRUE)	of col1, how many also in col2?	
<pre>dataSet%>% gf_props(Survived, fill = Pclass, position = "fill")%>% gf_labs(title = "", subtitle = "", x = "", y = "")%>% gf_the- me(theme_bw())</pre>		

Categorical non-number Numerical can be categorized by number continuous non-whole # discrete whole # stratified sampling some of all groups cluster sampling one group, all variables simple random sampling random selection across all groups observational study not experimenting retrospective study data collected after the fact prospective study data collected during event skew tail is what skew it is favstats(colforeachof~threturns min, iscol, data = dataSet) max, SD, mean, median explanatory variable х response variable у independence has no trend tally(~col1+col2, data = % of the dataSet, format = "percendataset that t/decimal" applies to both tally((colforeachof~thiscol, of col1, how data = dataSet, format = "many also percent", margin = TRUE) in col2? dataSet%>%

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Block 2 Quiz 2	
pnorm(value, mean mu, stdev)	returns CDF of normal distribution
Probability of randomly selecting within a range	upper bound pnorm - lower bound pnorm
qnorm(percentile value, mu, stdev)	returns percentile of dataset
integrate(function(x)- {functionInfo}, lowerBound, upperB- ound)\$value	Integrate
adaptIntegrate(fun- ction, lowerLimit = c(lowerBound, lowerBoundY), upperLimit = c(uppe- rBoundX, upperB- oundY))\$integral	integrate with 2 variables
Cov(X,Y) = E(XY) - E(X)E(Y)	covariance
Cov(X,Y) = 0	Independence
CDF	cumulative density function. probability that a random variable will take on a value <= given value. integral of PDF
PDF	proability density function. probability that a random variable will take on a given value. derivative of CDF.

Block 2 Quiz 2 (cont)		
rexp(# of trials, mu) + 1 /// mean(results < givenN- umber)	exponential distribution	
pexp(xValueNumber, rate = mu)	exponential distribution	
Block 3		
Im() im not done with this!		
bootstrapping		

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