

Useful R Commands/functions

- For any distribution, following commands are used by replacing 'name' with the proper distribution name
 - `dname()` density or probability function
 - `pname()` cumulative density function
 - `qname()` quantile function
 - `rname()` random deviates
- For Normal distributions, following are the commands
 - **`pnorm(0)`** = 0.5 (the area under the *standard normal curve* to the left of zero).
 - **`qnorm(0.9)`** = 1.28 (1.28 is the 90th percentile of the standard normal distribution).
 - **`rnorm(100)`** generates 100 random deviates from a standard normal distribution.
 - **`rnorm(100, m=50, sd=10)`** generates 100 random deviates from a normal distribution with mean 50 and standard deviation 10.

Distribution functions in R

distribution	R name	distribution	R name
Beta	beta	Lognormal	lnorm
Binomial	binom	Negative Binomial	nbinom
Cauchy	cauchy	Normal	norm
Chisquare	chisq	Poisson	pois
Exponential	exp	Student t	t
F	f	Uniform	unif
Gamma	gamma	Tukey	tukey
Geometric	geom	Weibull	weib
Hypergeometric	hyper	Wilcoxon	wilcox
Logistic	logis		

- Dirichlet distribution
library(gtools)
rdirichlet()