

Page numbers (DVB) correspond to *Stats: Data and Models* by DeVeaux, Velleman and Bock and (V) Verzani, *Simple R*. The arguments to the functions can vary and there can be several optional arguments. Type `?command` to get help on the function named `command`.

DVB	Concept	R command	V
8	data table	data frame	32
10	quantitative variable	vector	3
10	categorical variable	factor	9
21	frequency table	table()	8
21	relative frequency table	prop.table()	20
22	bar chart	barplot()	9
22	pie chart	pie()	10
23	contingency table	table() xtabs()	20,35
27	side-by-side bar charts	barplot(...,beside=T)	20,36
28	segmented bar charts	barplot()	20
47	histogram	hist() histogram() (lattice)	14 40
48	relative frequency histogram	histogram(...,prob=T) (lattice)	
49	stem-and-leaf displays	stem	13
51	dotplots	stripchart(...,pch=19,method="stack")	
55	mean	mean()	11
56	median	median()	11
57	range	range()	
58	quartile	quantile(...,c(.25,.75))	12
58	percentile	quantile()	12
59	standard deviation	sd()	11
59	variance	var()	
80	5-number summary	fivenum()	11
81	boxplot	boxplot() bwplot() (lattice)	15 40
82	histogram atop boxplot	???	
83	side-by-side boxplot	boxplot()	22
105	ogive	plot(ecdf())	
113	standardize	scale()	46
121	normal percentiles	pnorm()	45
123	normal probability plot	qqnorm()	49
125	z in reverse	qnorm()	45
154	scatter plot	plot() xyplot() (lattice)	23,30 40
160	correlation coefficient	cor()	27
	Spearman correlation coefficient	cor(rank(),rank())	27
183	least-squares line	lm()	25
183	predicted values	predict()	
183	residuals	residuals()	
183	plot with line	abline() plot(...,type=c("p","r")) (lattice)	25

DVB	Concept	R command	V
277	random trials	<code>sample()</code>	41
277	repeating trials	<code>replicate()</code>	
293	simple random sampling	<code>sample()</code>	41
		<code>srswor()</code> (sampling)	
294	stratified sampling	<code>strata()</code> (sampling)	
295	cluster sampling	<code>cluster()</code>	
296	systematic sampling	<code>UPsystematic()</code>	
410	geometric model, probabilities (pdf)	<code>dgeom()</code>	
410	geometric model, cumulative probabilities (cdf)	<code>pgeom()</code>	
413	binomial model, probabilities	<code>dbinom()</code>	49
419	poisson model, probabilities	<code>dpois()</code>	
462	confidence interval for proportion	<code>prop.test()</code>	65
486	hypothesis test for proportion	<code>prop.test()</code>	
529	tests, intervals for two proportions	<code>prop.test()</code>	68
555	confidence interval for means	<code>t.test()</code>	67
556	t-distribution	<code>pt(),qt()</code>	
580	confidence interval for difference between means	<code>t.test()</code>	73
595	Wilcoxon rank sum test	<code>wilcox.test()</code>	64
634	chi-square goodness-of-fit test	<code>chisq.test()</code>	78
635	chi-square test of homogeneity	<code>chisq.test()</code>	79
643	standardized residuals	<code>chisq.test()\$residuals</code>	
674	linear model	<code>lm()</code>	81
674	regression residuals	<code>resid()</code>	82
674	residual plot	<code>plot(lm())</code>	79
681	confidence intervals for coefficients	<code>confint()</code>	85
687	confidence intervals for predicted values	<code>predict(...,interval="confidence")</code>	87
687	prediction intervals	<code>predict(...,interval="prediction")</code>	
690	logistic regression	<code>glm(...,family=binomial())</code>	
690	predictions for logistic regression	<code>predict(...,type="response")</code>	
718	analysis of variance	<code>aov()</code>	92
718	the ANOVA table	<code>summary(aov())</code>	92
719	the F -distribution	<code>pF(), qF()</code>	