# EA30 R Reference Card

November 26, 2019

## Getting help

help.start() Opens an interactive html page with several help resources

? 'function' to get help with a specific function, don't include the quotation marks!

args() to see the arguments that a function is expecting

## Creating and Importing Data

c() combine or concantenate values, separated by commas

data.frame() create data frame

read.csv() read csv file into a data frame

## Statistical Analysis

### Regression

lm() create a linear model (y = f(x) or y ∼ x)

## ANOVA, t-test, etc

t.test() test two vectors

aov() create an object analysis of variance, where y = f(x) or y ∼ x

## Tests for Association

chisq.test()

fisher.test()

## Logistic Regression

glm(y ∼ x, family=binomial(link='logit'))

## Statistical Results

summary() coerce object into summary table

coef() extract coefficients from a model object (e.g. lm)

plot() when you plot a model, you'll get four diagnostic plots that can be used to evaluate the assumptions.

predict()

## Visual Display

plot() arguments can be in x,y or in a y ∼ x formula to create scatter plots

boxplot() boxplots are used for categorical predictors

abline() using values to create vertical, horizonal, or diagonal lines

par() controls display parameters

lots of text . . .