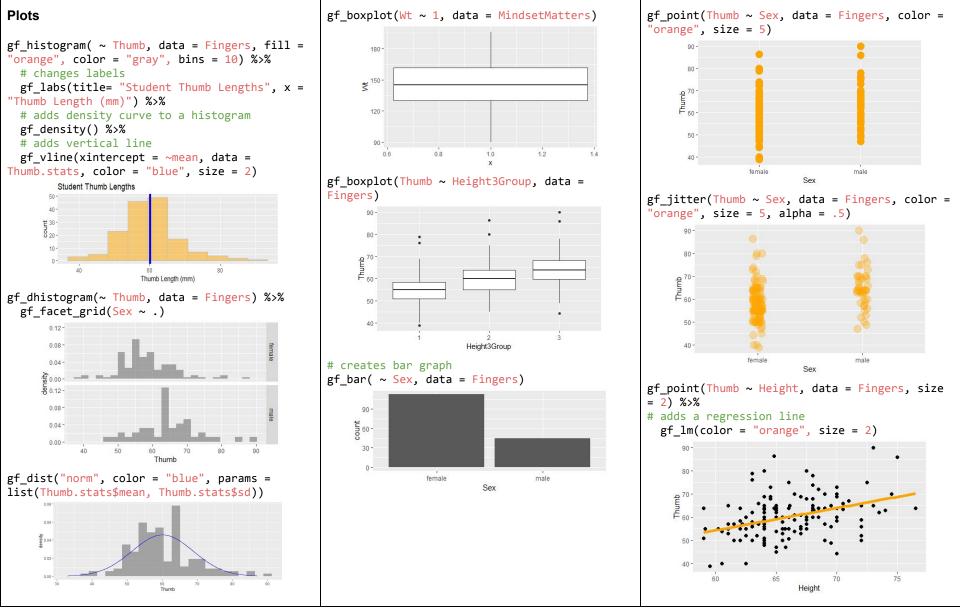
```
Basics
                                  Tables
                                                                           Fitting and Evaluating Models
                                                                                                                Data
print("hello")
                                  tallv(mvvector)
                                                                           Empty.model <- lm(Thumb ~ NULL.</pre>
                                                                                                                str(MindsetMatters)
# assigns value to object
                                  tally(~ Condition, data =
                                                                           data = Fingers)
                                                                                                                head(MindsetMatters)
mynumber <- 5
                                  MindsetMatters)
                                                                           Sex.model <- lm(Thumb ~ Sex, data</pre>
                                                                                                                tail(MindsetMatters)
# combines elements into vector
                                  tally(~ Thumb > 65, data = Fingers)
                                                                           = Fingers)
                                                                                                                sort(myvector)
                                  tally(Thumb ~ Sex, data = Fingers,
                                                                           Sex.fun<-makeFun(Sex.model)</pre>
                                                                                                                arrange(Fingers, Thumb)
myvector \leftarrow c(1,2,3)
# first element in vector
                                  margins = TRUE, format =
                                                                           Sex.fun("male")
mvvector[1]
                                  "proportion")
                                                                                                                # selects variables
# variable in data frame
                                                                           predict(Empty.model)
                                                                                                                select(Fingers, Sex, RaceEthnic,
Fingers$Sex
                                                                                                                Thumb)
                                                                                                                # selects cases
                                                                           resid(Empty.model)
                                                                           anova(Empty.model)
                                                                                                                filter(Fingers, SSLast != "NA")
                                                                           supernova(Sex.model)
                                                                                                                head(select(Fingers, Thumb))
                                                                                                                as.numeric(Fingers$Interest)
                                                                                                                factor(Fingers$Sex)
Operators
                                  Simple Statistics
                                                                           Probability Distributions
                                                                                                                factor(Fingers$Sex, levels =
                                  mean(Fingers$Thumb)
                                                                           xpnorm(65.1, Thumb.stats$mean.
                                                                                                                c(1,2), labels = c("female",
sum(1,2,100)
                                  var(Fingers$Thumb)
                                                                                                                "male"))
+, -, *, /
                                                                           Thumb.stats$sd)
                                                                                                                recode(Fingers$Job, "0" = 0, "1" =
>, <, >=, <=, ==, !=
                                  sd(Fingers$Thumb)
                                                                                                                50, "2" = 100)
                                  favstats(~ Wt, data = MindsetMatters)
                                                                           zscore(Fingers$Thumb)
                                  cohensD(Thumb ~ Sex, data = Fingers)
# results in TRUE or FALSE
Fingers$RingLonger <-
                                  cor(Thumb ~ Height, data = Fingers)
                                                                           # returns t at this probability
                                                                                                                # creates two equal sized groups
                                                                                                                ntile(Fingers$Height, 2)
Fingers$Ring > Fingers$Index
                                                                           qt(.975, df = 999)
                                  b1(Thumb ~ Sex, data = Fingers)
                                                                           # returns F at this probability
                                                                                                                aggregate(Happiness ~ Region, data
abs(Fingers$Residual)
                                  b1(Sex.model)
                                                                           qf(.95, df1 = 1, df2 = 100)
                                  # PRE and fVal work like b1
                                                                                                                = HappyPlanetIndex, FUN = mean)
Fingers$Residual^2
                                  PRE(Sex.model)
                                                                           # CI using t dist.
sqrt(157)
                                  fVal(Sex.model)
                                                                           confint(Empty.model)
Simulation & Resampling
                                  # simulates sampling 10000 Thumbs
                                                                           # bootstraps sampling dist. of
                                                                                                                # randomizes sampling dist. of
                                                                           b1s, centered on sample b1
                                  from a normal dist.
                                                                                                                PRFs
                                  simThumb <- rnorm(10000,</pre>
                                                                           SDob1 <- do(10000) * b1(Tip ~
# sample without replacement
                                                                                                                SDoPRE <- do(10000) * PRE(Tip ~
sample(Fingers$Thumb, 10)
                                  Thumb.stats$mean, Thumb.stats$sd)
                                                                           Condition, data =
                                                                                                                shuffle(Condition), data =
                                  # puts simulated Thumbs into data
                                                                           resample(TipExperiment, 44))
                                                                                                                TipExperiment)
# sample with replacement
                                  frame
resample(Fingers$Thumb, 157)
                                  simPop <- data.frame(simThumb)</pre>
                                                                           # randomizes sampling dist. of
                                                                                                                # randomizes sampling dist. of Fs
                                                                           b1s, centered on 0
                                                                                                                SDoF <- do(10000) * fVal(Tip ~</pre>
do(3) *
                                  # simulates sampling dist.of means
                                                                           SDob1 <- do(10000) * b1(Tip ~
                                                                                                                shuffle(Condition), data =
resample(Fingers$Thumb,10)
                                  simSDoM <- do(10000) *</pre>
                                                                           shuffle(Condition), data =
                                                                                                                TipExperiment)
                                  mean(rnorm(157, Thumb.stats$mean,
                                                                           TipExperiment)
                                  Thumb.stats$sd))
# mixes up values in a variable
                                                                                                                # plots sampling dist.
shuffle(Servers$RandomGroups1)
                                  # bootstraps sampling dist. of means
                                                                                                                gf histogram(~ fVal, data = SDoF,
                                  bootSDoM <- do(10000) *
                                                                                                                fill = ~fVal>sampleF)
                                  mean(resample(Fingers$Thumb,157))
                                                                                                                # counts extreme Fs
                                                                                                                tally(~fVal>sampleF, data = SDoF)
```



Version 2.3