Announcements

R function cheat-sheet (thanks Natalie!)

• Please use provided .Rmd file for take-home exam

Exercise 1: Entering contingency tables into R

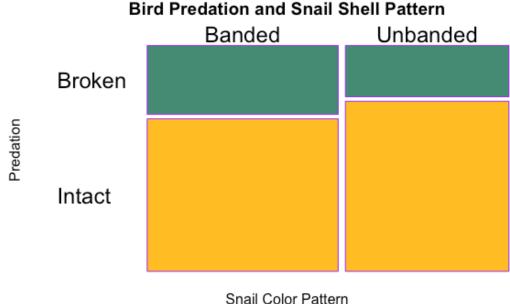
- Enter the data from this contingency table into R, and create a contingency table object.
- Hint: You can use Excel and save as a .csv file to read into R as usual OR use tribble() from the tibble package

Predation

Snail color pattern	Broken	Intact	Row totals
Banded	182	403	585
Unbanded	116	385	501
Column totals	298	788	1086

Exercise 2: make a mosaic plot!

- Make a mosaic plot for the snail data you entered earlier.
- Make it your own by changing colors and axis labels.
- Dig around in the help file to see what other graphical parameters you can change!



 $X^2 = 8.5827$, p = 0.0034

Want to know more?

- R for Data Science (http://r4ds.had.co.nz/)
 - Focus on data manipulation ("wrangling") and visualization using the tidyverse (ggplot2, dplyr, tidyr, etc.)
- Cookbook for R (cookbook-r.com)
 - Similar to our syllabus, more in-depth, additional statistical tests
- Ecological models and Data in R (used in Bio133) (https://ms.mcmaster.ca/~bolker/emdbook/)
 - Focus on likelihood and modeling
- The R Book
 - Focus on statistics by type of data (count, proportion, time-series, etc.)
- http://www.transmittingscience.org/courses/statistics-and-bioinformatics/rwithout-fear-applied-r-biologists/
- https://www.edx.org/course/statistics-r-harvardx-ph525-1x-0