STAT UN1201 – Chapter 1

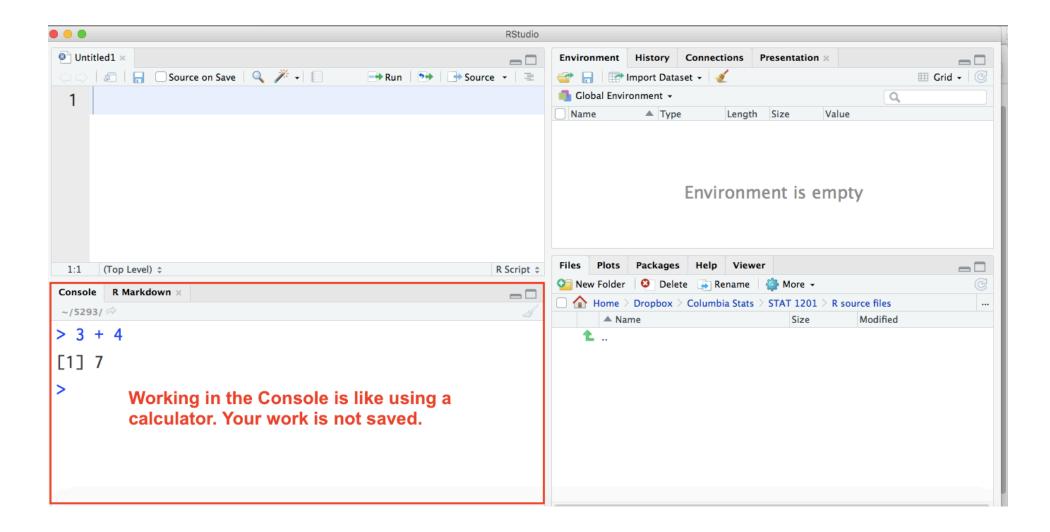
Prof. Joyce Robbins

Waitlist

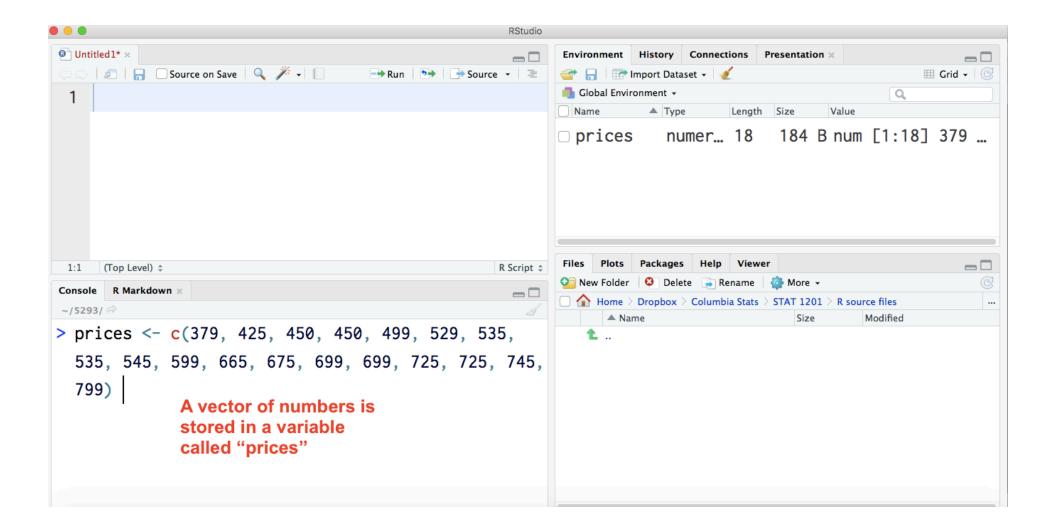
- 1. The waitlist moves in order as places open up.
- Course materials are available here during change of program period: http://github.com/jtr13/1201
- 3. It is strongly advised to keep up with the material if you are trying to get in the class.

EVERYONE: Once you've made a decision not to take the class, please be considerate and drop it from your schedule.

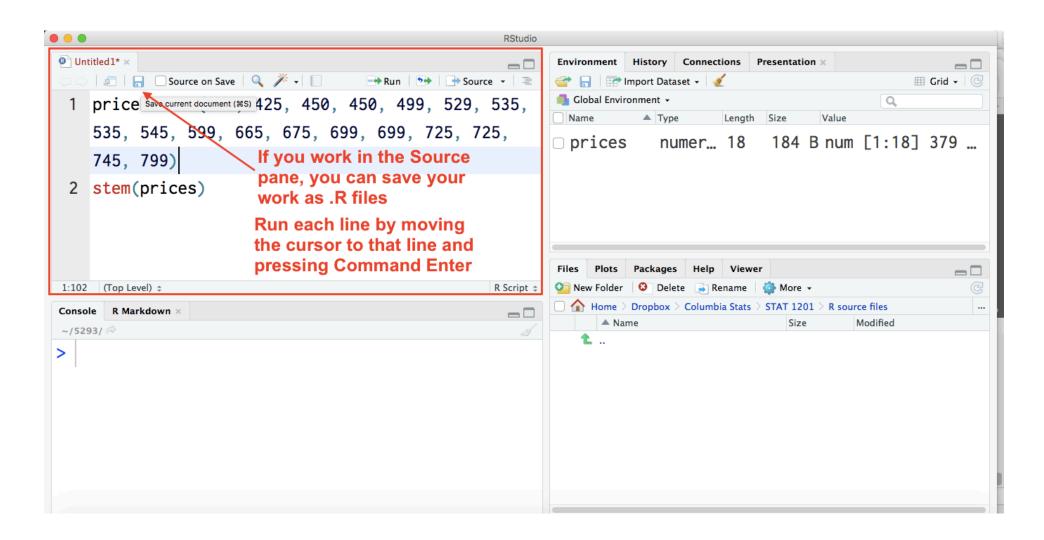
RStudio



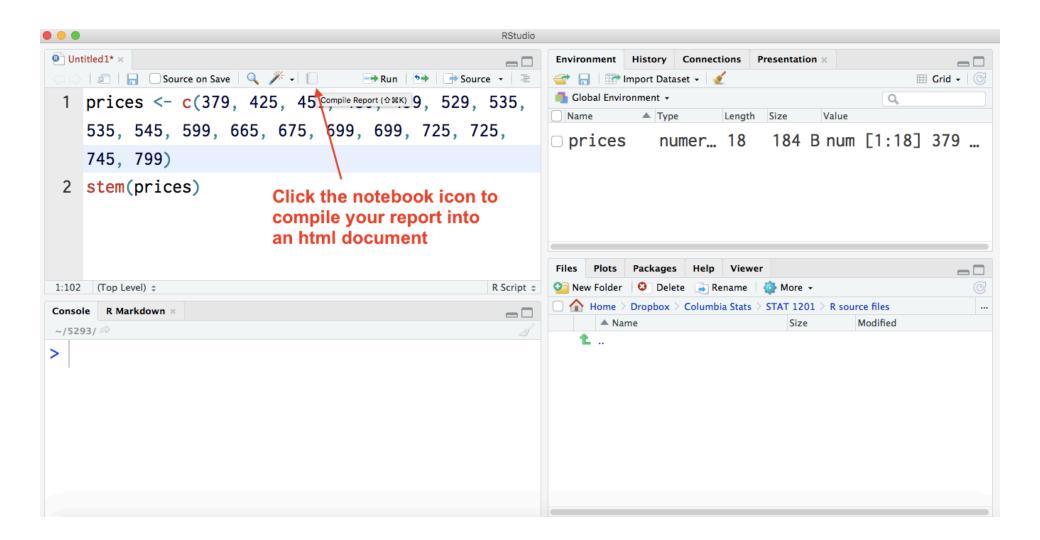
Working in the Console

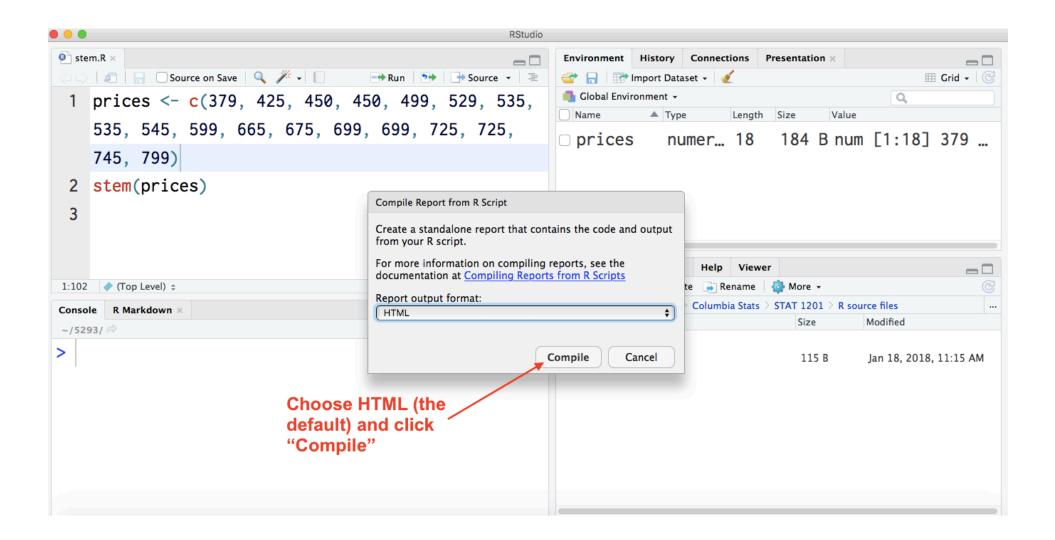


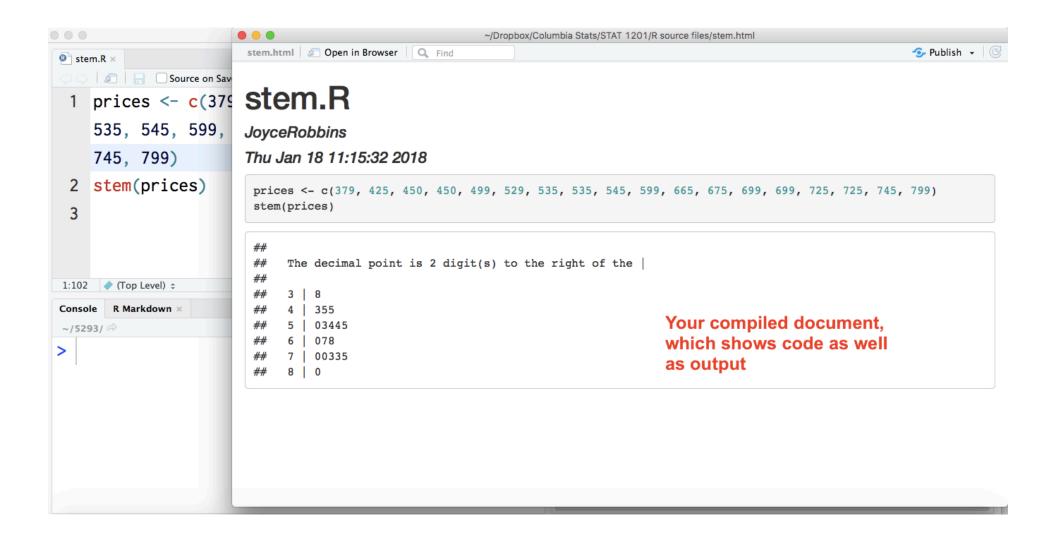
Saving your work as an R script

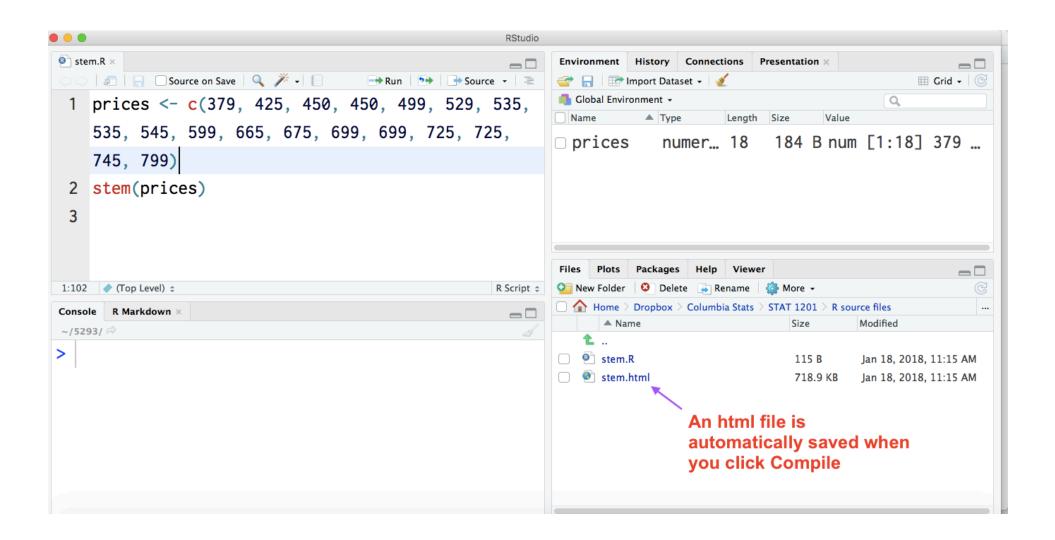


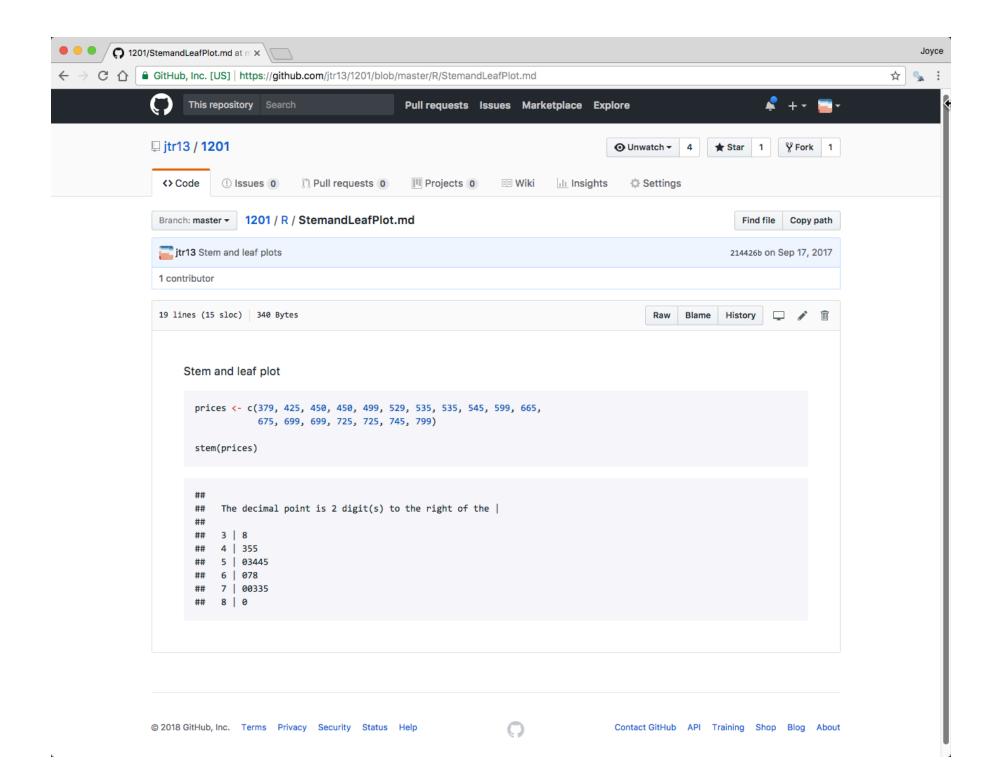
Compiling your work into an .html file



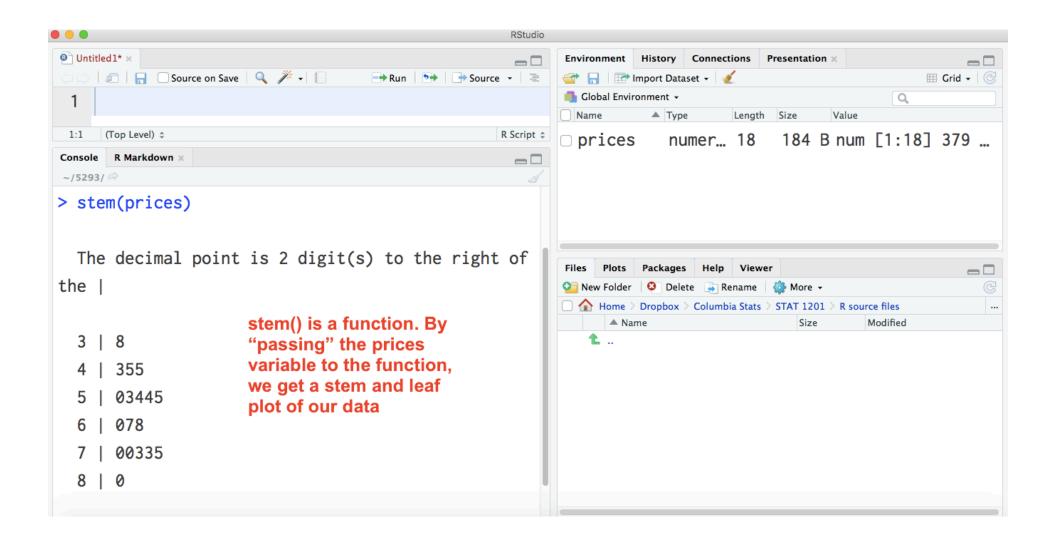








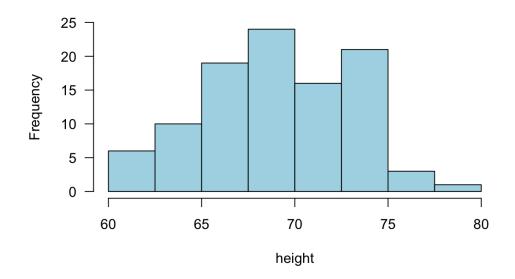
Creating a stem-and-leaf plot



Discrete data

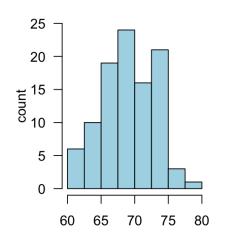
Discrete data

Heights of 100 college students, in inches



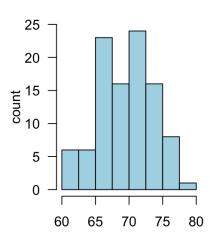
Discrete data histogram

Histogram of height



RIGHT CLOSED, LEFT OPEN

Histogram of height



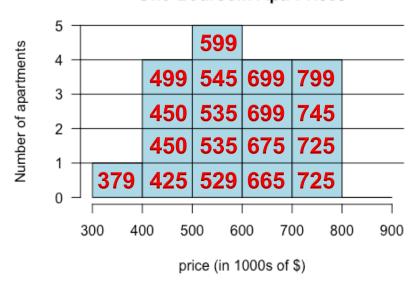
RIGHT OPEN, LEFT CLOSED

EXERCISE

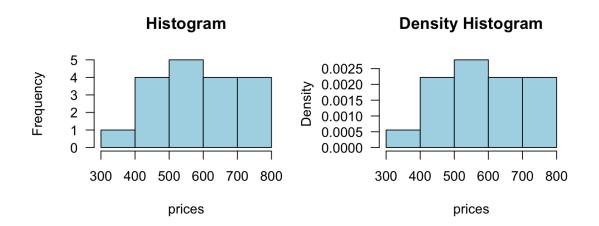
Draw a histogram of the asking prices for one-bedroom apartments in Morningside Heights (prices in thousands of \$) Data source: cityrealty.com, 9/13/2016

379, 425, 450, 450, 499, 529, 535, 535, 545, 599, 665, 675, 699, 699, 725, 725, 745, 799

Histogram of Morningside Heights One-Bedroom Apt. Prices

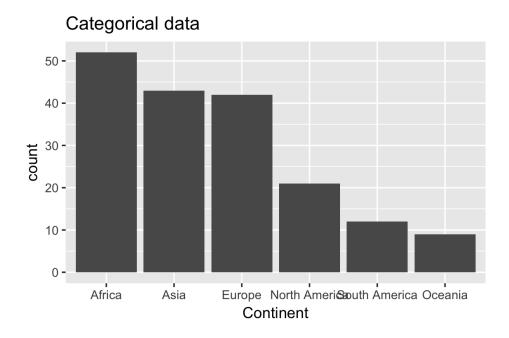


Density histogram

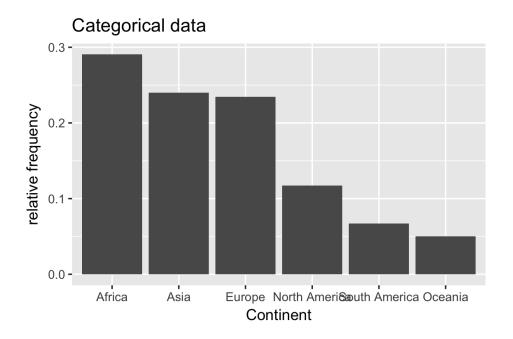


Class	Frequency	Rel. Frequency	Density
(300, 400]	1	.056	.00056
(400, 500]	4	.222	.00222
(500, 600]	5	.278	.00278
(600, 700]	4	.222	.00222
(700, 800]	4	.222	.00222

Frequency bar chart



Relative frequency bar chart



Five number summary

- 1. min
- 2. lower fourth
- 3. median
- 4. upper fourth
- 5. max

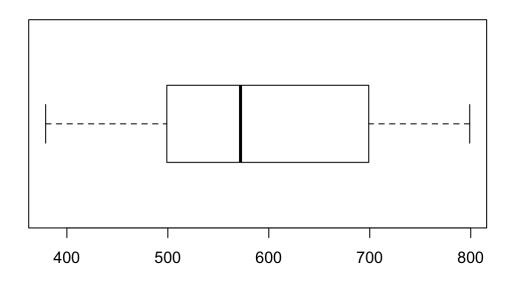
fivenum(prices)

[1] 379 499 572 699 799

Boxplot

379, 425, 450, 450, 499, 529, 535, 535, 545, 599, 665, 675, 699, 699, 725, 725, 745, 799

[1] 379 499 572 699 799



Boxplot with outliers

