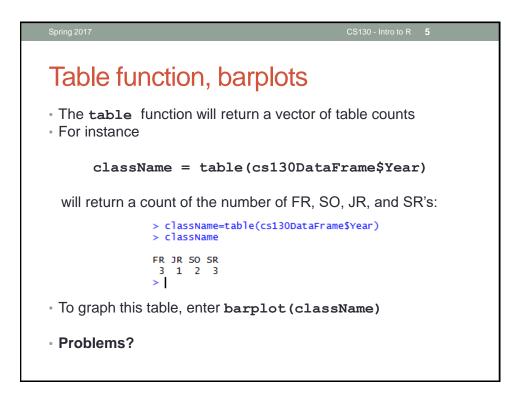
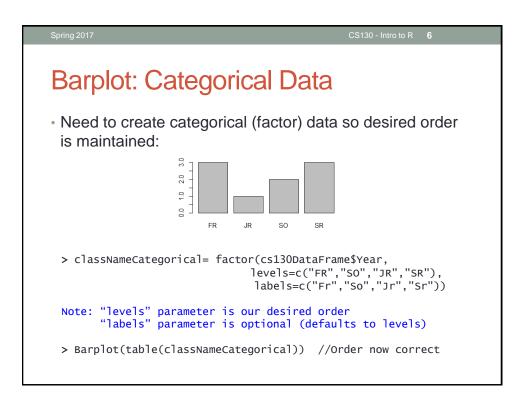
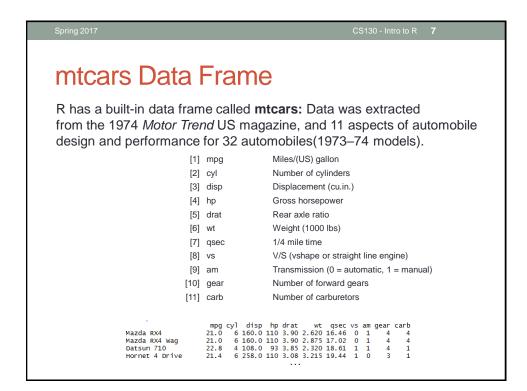


Spring 2017		CS130 - Intro to R 3		
Review: Problem				
For the given CS130 class information, create a data frame, cs130DataFrame.R that contains the following data				
ID	Year	Age		
0001	FR	18		
0002	FR	18		
0003	SR	22		
0004	JR	22		
0005	SO	19		
0006	FR	19		
0007	SR	23		
0008	SO	19		
0009	SR	22		

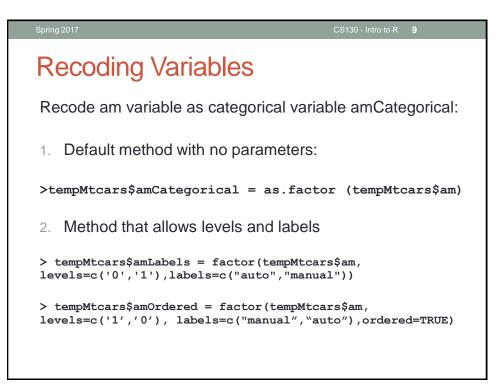
Sprin	Spring 2017			30 - Intro to R 4			
R	Review: Continued						
V	 Using the command str(cs130DataFrame), classify each variable ID, Year, Age as: quantitative or qualitative discrete, continuous, neither nominal, ordinal, neither 						
Va	ariable	Quantitative or Qualitative?	Discrete, continuous, neither?	Nominal, ordinal, neither?			
ID)						
Ye	ear						
A	ge						

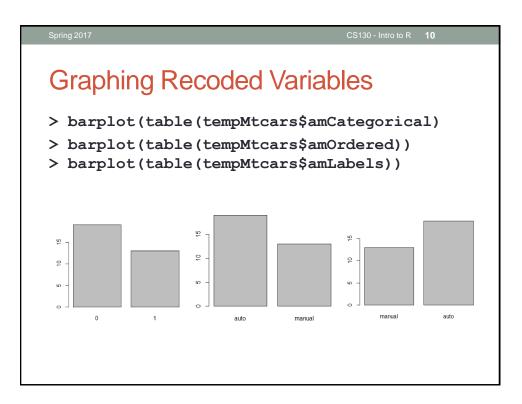


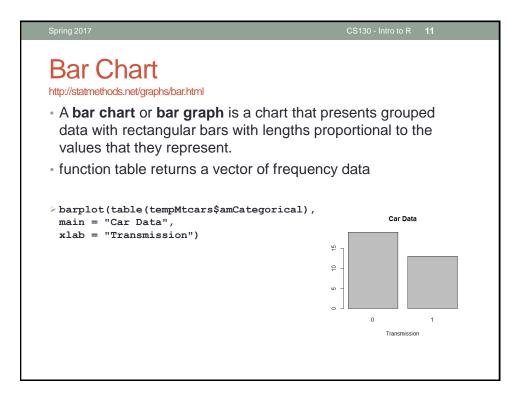




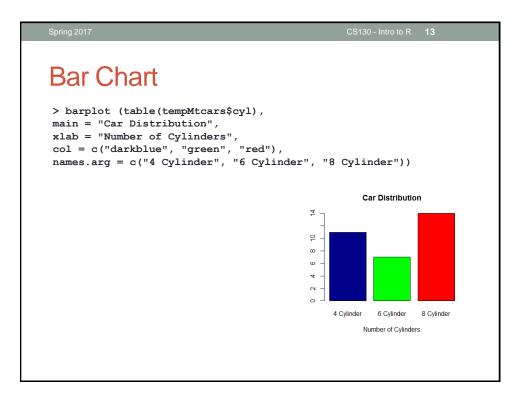
Spring 2017	CS130 - Intro to R	8	
R: Useful functions Copy mtcars to tempMtcars to protect mtcars data > tempMtcars = mtcars			
 Useful R functions length(object) # number of variables str(object) # structure of an object class(object) # class or type of an object names(object) # names dim(object) # number of observations and variables 			
 In the console, call each function using tempMtcars as the object 			

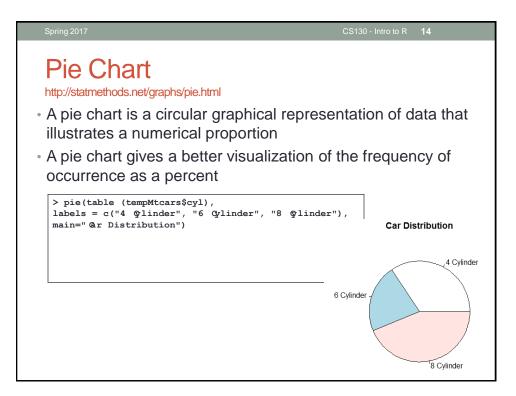


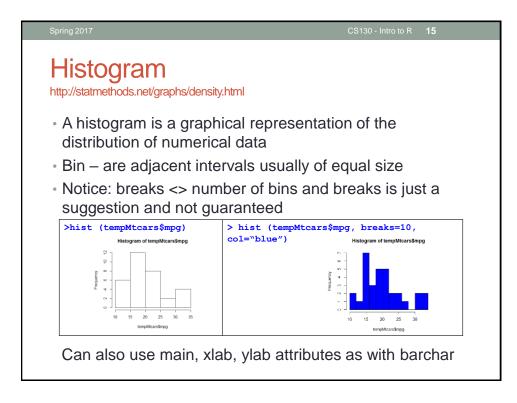


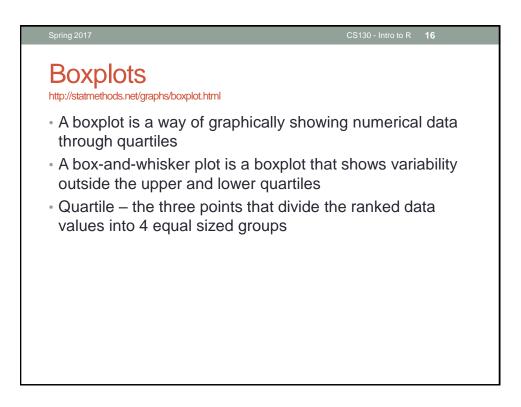


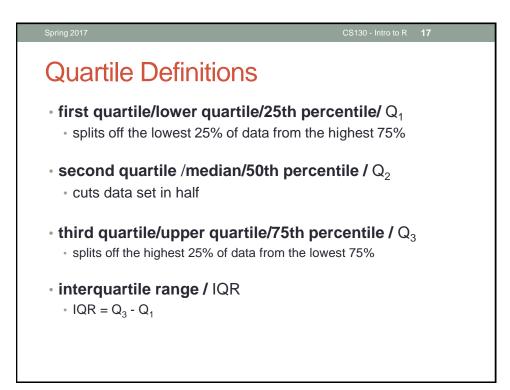
Spring 2017	CS130 - Intro to R 12
Recoding Variables	
Create a new variable mpgClass where r mpg>25 is "high"	mpg<=25 is "low",
<pre>> tempMtcars\$mpgClass[tempMtcars\$mp > tempMtcars\$mpgClass[tempMtcars\$mp > tempMtcars\$mpgClass [1] "low" "low" "low" "low" "low" "</pre>	og > 25] = "high"
[9] "low" "low" "low" "low" "low" " [17] "low" "high" "high" "high" "lo [25] "low" "high" "high" "high" "lo	'low" "low" "low" w" "low" "low" "low"
> typeof(tempMtcars\$mpgClass) [1] "character"	
> barplot(table(tempMtcars\$mpgCla Data", xlab="MPG")	ss), main = "Car

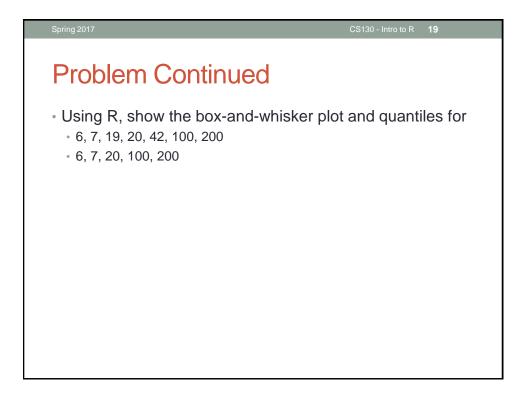












Spring 2017		CS130 - Intro to R 20			
Paint Problem					
 Let's put everything together 					
 A paint manufacturer tested two experimental brands of paint over a period of months to determine how long they would last without fading. Here are the results: 					
BrandA	BrandB	Report on the following			
10	25	-Mean			
20	35	-Median			
60	40				
40	45	-Std Deviation			
50	35	-Minimum			
30	30	-Maximum			

