	이 얼마나 되는데 그는 그들은 사람들은 이번 없었다면 얼마나 되었다면 하는데 되었다면 하는데 없었다.
	Lecture 1: 1/3/24
	그렇게 하는 것이 되는 것이 없는 것이 되었다. 그렇게 하는 것이 되었다고 있다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면 없다면 없다면 없다면 없다면 없다면 없다면 다른데 없다면
	Key Terms
	[
	Population: The set of all subjects
	of interest
	- could be tangible things, like people
	of Manufactured apple
	- Could also be more abstract, like
	physical process we are inference
	e.g., All college Students
	Sample: The Subset of the population
	For which we have data
	FOR which we have data e.g., The college Students in MATH
	2310
	Individual: One of the people things in the
	sample being measured or described. Also called "observations" of "observational units,"
	Also (alled Observations of Observational Units,
	e.g., one of the students in MATH 2310
	Variable: Characteristic(s) that we
	Measure for each individual
	-Data can be univariate, bivariate, or
	-Data can be univariate, bivariate, or Multivariate (1,2,00) 3+ variables
	- Categorical Variable: non-numerical, or
	qualitative variable.
	e.g., glasses or ND glasses, or letter grade?
	- Numerical Variable: Quantitative Variable
1	e.g., Numerical grade

Continuous Variable! Numerical Variable that can take any value within some range e.g., Time since birth Discrete variable: Numerical variable that can only take certain values (usually integers) within a range.
e.g., Number of Pens in your backpack

Lecture 2: Visualizing Data
Visualizing Categorical Data
- 2 Primary Methods: Pie Charts and
bar charts
ex. Survey of tree species in a certain
Patch of forest!
50 Ponderosas
45 white firs
-> Switch to Categorical data. R and
Make Pie Chart
- Shows Proportion of each category
as the Proportion of total circle
area
- Helpful for comparing one category, or "slice" to the others, but
difficult to compare between
other categories
-> Now plot same data as bar Plot.
- Now it's easier to see relative sizes
of all categories, but harder to see
that JP takes up more than half
the data
- overall, bar charts are preferred and
have been shown to convey information
more effectively
- Why? Rectangular sections easier to
interpret than angular wedges