

UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1



Important Pre-Course Survey Variables: What they are and what they tell us

Week 1: Introduction to Data > Lecture Videos > Variables

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Readings

Reading Check due Mar 15, 2016 at 18:00 UTC

Lecture Videos

Comprehension Check due Mar 15, 2016 at 18:00 UTC

R Tutorial Videos

due Mar 15, 2016 at 18:00 UTC

Pre-Lab

Pre-Lab due Mar 15, 2016 at 18:00 UTC

Lab

Lab due Mar 15, 2016 at 18:00 UTC

Week 2: Univariate Descriptive Statistics



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SPEAKER: MICHAEL J. MAHOMETA, Ph.D.

Once we have a hold of our data, we need to start making sense of it

- and the best way we can start to do that is by understanding

the KINDS of variables that make up our data.

Now basically, there are ▼

Comprehension Check

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Below are the first four rows of data from a survey of incoming university freshmen:

00 White Biology Yes 1 3.1	lath PA
	.1
00 2Asian 2Art History Art HistoryNo03.4	.4

Week 3: Bivariate Distributions

Week 4: Bivariate Distributions (Categorical Data)

00 3	Hispani c	Computer Science	Yes	0	3.9	
00 4	Hispani c	Undecided	Yes	1	2.3	

(4/4 points)

The ethnicity of each student is what kind of variable?

- identifier variable
- categorical (qualitative)
- numerical (quantitative)
- cannot be determined without additional information

The Math GPA for each student is what kind of variable?

- identifier variable
- categorical (qualitative)
- numerical (quantitative)
- cannot be determined without additional information

Each student was asked, "Did you play sports in high school?" Their responses were recorded as "1" for YES and "0" for NO. What kind of data do you have now?

- It is still categorical data, even though numbers are used to represent categories.
- It is numerical data, because 0 and 1 are numbers.
- It is no longer data. The data has been modified from its original

format. It is numerical data because we can count how many 0's and 1's we have, and you can't do that with categorical data. Which of the following would NOT be considered raw data? Height of each skyscraper in Manhattan. Highest grade level completed by each of 16 taxicab drivers in Queens. Average age of ballet dancers attending The Juilliard School. Highest temperature recorded each day of June 2014 in the Bronx. Below are examples of data: • Jersey numbers of five players on an NBA basketball team • Length (in seconds) of each song on a Michael Jackson album. • Top five best-selling books on the New York Times bestsellers list. • Height of children in a kindergarten class (2/2 points) Only one of the following scales of measurement is not represented above. Which is it? ordinal interval nominal ratio

Which of the following is an example of interval data being converted to ordinal data?

- Finish times for a marathon reported as first, second and third place, etc.
- Age recorded as infant, youth, adult, and senior.
- Winter temperatures graphed in categories of 30-39, 40-49, 50-59, and 60-69 degree Fahrenheit.
- Happiness scores (measured on a scale of 1-10) recorded as not happy, happy, and very happy.

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