

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



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Question 1

How has mobile phone usage in Brazil changed since 1995?

- 1. Create a subset of the world bank data that contains records from Brazil 1995 and later.
- 2. Change the year variable to be "years since 1995" and update the units of the "mobile.users" variable to millions of users.
- 3. Use this data to answer the following questions.

Use the "WorldBankData.csv" dataset to answer the following questions.

Instructions for installing "WorldRecords.csv" can be found under the **Examine the Data** unit in this week's **Pre-Lab** section.

(1/1 point)

1a. Use RStudio to find the number of mobile users in Brazil (in millions) in 2000. (Round to 2 decimal places.)

23.19

✓ Answer: 23.19

23.19

You have used 1 of 1 submissions

(1/1 point)

Function Models	Question 1 Problem Set UT.7.10x Courseware edX 1b. In what year did Brazil first record more than 100 million mobile users?
Readings Reading Check due Mar 15, 2016 at 18:00 UTC	2007 ✓ Answer: 2007 2007
Lecture Videos Comprehension Check due Mar 15, 2016 at 18:00 UTC	You have used 1 of 1 submissions
R Tutorial Videos	
Pre-Lab Pre-Lab due Mar 15, 2016 at 18:00 UTC Lab	1c. Generate a scatterplot and fit a linear, exponential and logistic model to the data. Which model best describes the increase in mobile users in Brazil since 1995?
Lab due Mar 15, 2016 at 18:00 UTC	Exponential Model
Problem Set Problem Set due Mar 15, 2016 at 18:00 UT	Linear Model
	■ Logistic Growth Model
	You have used 1 of 1 submissions (1/1 point)
	1d. What proportion of the variation in mobile users is explained by years since 1995 in the best-fitting model? (Round to 3 decimal places.)
	since 1995 in the best-fitting model? (Round to 3 decimal places.)
	since 1995 in the best-fitting model? (Round to 3 decimal places.) O.998 Answer: .998

345

millions) in Brazil in 2025. (Round to a whole number.)

✓ Answer: 345

345

You have used 1 of 1 submissions

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