Congratulations! You passed!

TO PASS 75% or higher

Keep Learning

GRADE
87.5%

Quiz 1: Introduction to Data Science

LATEST SUBMISSION GRADE
87.5%

1. Which of the following statements that are true about data science? Select all that apply. 1 / 1 point

- [ ] Data science refers only to problems where the data is too big for a single computer
- [x] Data science is more relevant today because we have more data available

✓ **Correct**

- [x] Data science is used to help inform critical decisions

✓ **Correct**

- [x] An important part of data science is the ability to tell a compelling story from the data

✓ **Correct**

- [ ] Only programmers and statisticians can do data science

2. Which is NOT a typical question to ask when doing data science? 1 / 1 point

- ( ) What will happen next?
- ( ) What happened?
- ( ) What should be done about it?
- ( ) Why did this happen?

- [x] Who will fix it?

Correct

Correct. Data science can help you answer the other questions listed, but usually not tell you who should fix a problem

3. Which of the following statements is true regarding the data science workflow. **0 / 1 point**

- [ ] During the data analysis state, you need to set your goals after first visualizing the data.
- [ ] Visualizations like histograms and scatter plots are not useful when trying to identify potential relationships between variables.
- [ ] Keeping missing, incomplete, or duplicate data unmodified will generate better results.
- [ ] Once you are confident in your qualitative results, you can share your finding through visualizations, presentations, and reports.
- [x] Machine Learning often works best on the raw data.

Incorrect

It's usually necessary to process the data prior performing machine learning. Deciding how to handle missing data and outliers is important.

4. True/False: The three global tabs available in the MATLAB toolstrip are: Home, Plots, and Editor **1 / 1 point**

- [ ] True
- [x] False

Correct

Correct. The three global tabs are Home, Plots, and Apps

5. In the MATLAB environment you create new files using the **1 / 1 point**

- [ ] Plots Tab
- [ ] Apps Tab
- [ ] Workspace
- [x] Home Tab

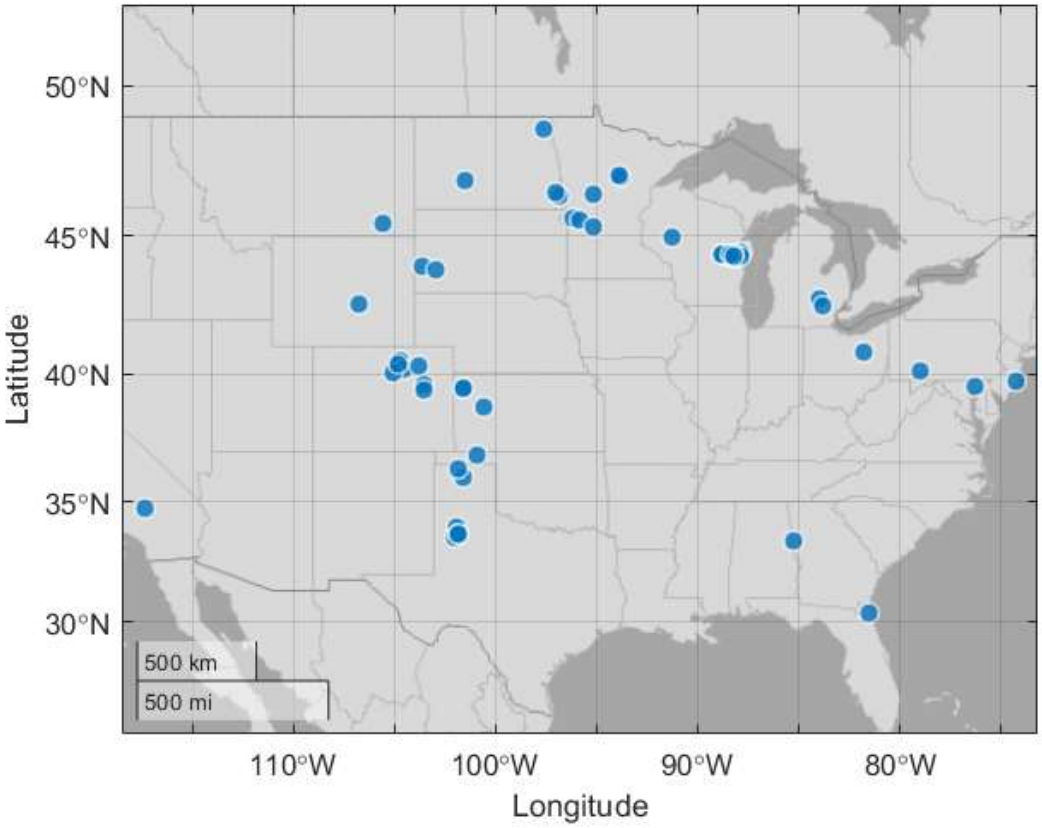
None of the above

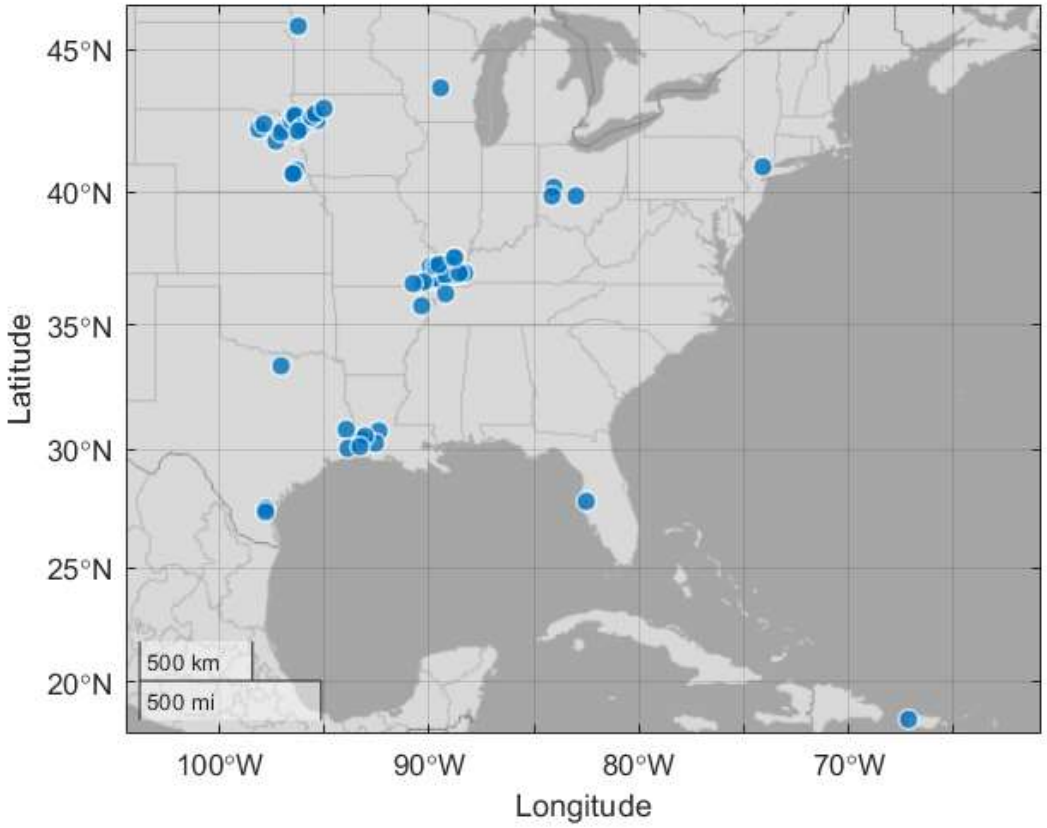
Correct

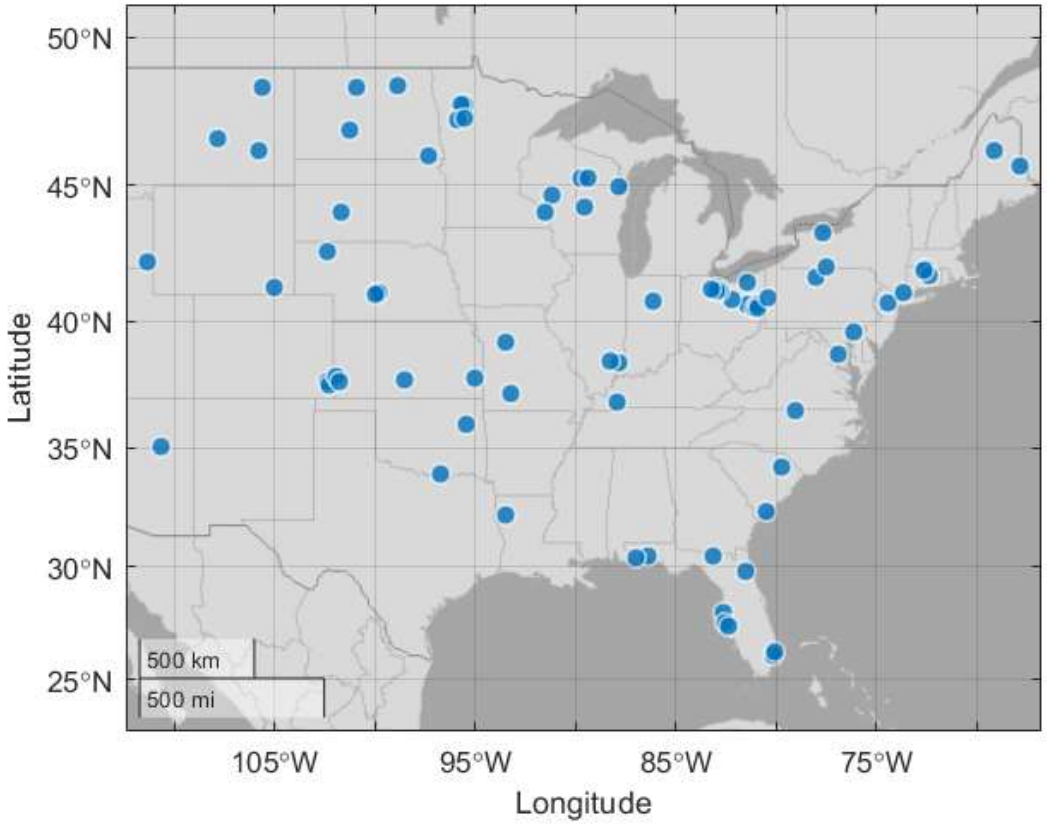
Correct. The Home Tab includes options for creating new files

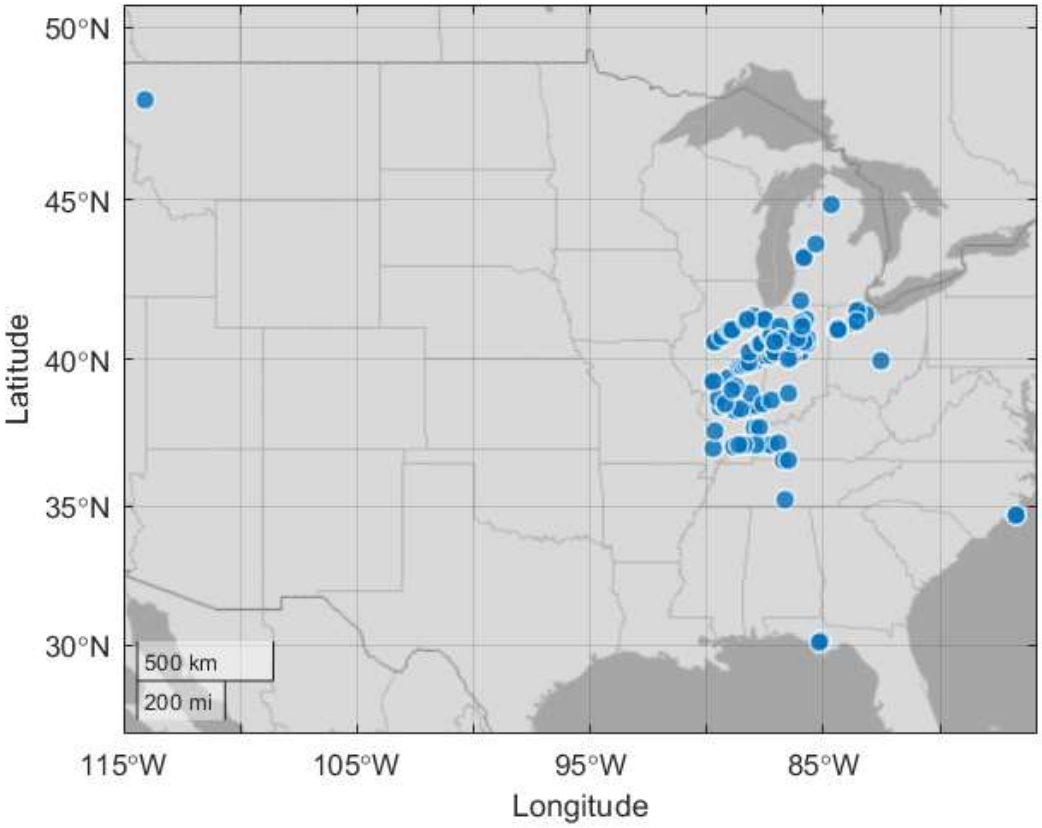
6. **The following three questions require you to use the live script analyzing tornado events in 2013 from the reading.** **1 / 1 point**

Run the script to import the 2013 weather events data. Then, go to the "Plot tornadoes for a given month" section and select November from the drop-down menu. Which figure below is closest to the figure created in the script.




45°N
40°N
35°N
30°N
25°N
20°N
Latitude
500 km
500 mi
100°W
90°W
80°W
70°W
Longitude


50°N
45°N
40°N
35°N
30°N
25°N
Latitude
500 km
500 mi
105°W
95°W
85°W
75°W
Longitude



Correct

Correct! Most of these tornadoes happened as part of a large outbreak on November 17th.

7. **In the live script analyzing tornado events, run the script and and move to "Part 3: Calculate Group Statistics." What month had the most tornadoes?** **1 / 1 point**

May

Correct

8. **Continuing from the previous question, move to "Total damage by month" and select "sum" from the drop-down menu. Sort the cost table by sum_Total_Damage form largest to smallest. Look at the third most damaging month. What was the cost for that month?**

- (●) $88,605,000
- ( ) $102,210,000
- ( ) $40,211,000

$353,490,500

Correct

Correct! January was the third most damaging month