Tasks

[**Deliverable 2:**](https://canvas.fau.edu/courses/158388/assignments/1948421) Describe your plan for answering the two primary questions below using NYC311 data (such as describing data collection process, type and definition of variables in your data, and your plan for analyzing the data) :

**How did Hurricane Sandy impact New York City based on NYC311 data?**  
**What was the impact of COVID-19 on New York City based on NYC311 data?**

Please submit a one to two-page PDF document that describes your plan.

Help:

1. [311data.csv](https://canvas.fau.edu/courses/133192/files/28579867?wrap=1)[Download 311data.csv](https://canvas.fau.edu/courses/133192/files/28579867/download?download_frd=1) is a subset of a larger dataset: 311NYC data.  This dataset includes service requests received by NYC311 **during the second half of 2012**. Hurricane Sandy impacted New York City on 29 Oct. 2012.

2- With respect to 311 data during COVID-19, you may download the data for two months before and after the first lockdown ([https://opendata.cityofnewyork.us/Links to an external site.](https://opendata.cityofnewyork.us/)).

[https://data.cityofnewyork.us/Social-Services/311-Service-Requests-from-2010-to-Present/erm2-nwe9Links to an external site.](https://data.cityofnewyork.us/Social-Services/311-Service-Requests-from-2010-to-Present/erm2-nwe9)

or use the following dataset:

This dataset contains 311 data from a few months before and after the first lockdown in the US.

[311\_Service\_Requests\_Afew months before and after the first COVID lockdown.csv](https://canvas.fau.edu/courses/158388/files/33623201?wrap=1)

Your plan can include a plan for data summarization, visualization, and answering specific questions related to the two primary questions. **For instance**, you can describe your plan to address the following questions:

* How did the number of service requests change before and after Hurricane Sandy? To compare, consider the total number of service requests during one month before the hurricane (i.e., from 2012-09-28 to 2012-10-29) and one month after the hurricane (i.e. from 2012-10-29 to 2012-11-29).
* What types of service requests were most common after Hurricane Sandy, and how did they differ from other periods?
* Which areas of New York City were most affected by Hurricane Sandy, based on the frequency and type of service requests?
* Which agencies received the highest service requests after the hurricane (again, consider a one-month timeframe)? You can plot the top 10 agencies on a bar chart.
* How did the number of service requests change before and after the first lockdown?
* Which types of service requests were most common, and how did they differ from other periods?
* Which areas of New York City were most affected by COVID-19 based on the frequency and type of service requests?