

# **lab\_08**

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## Load libraries and establish settings

**Task** Create a codeblock and load appropriate packages and settings for this lab. We'll be making some charts, working with dates and retrieving Census data.

## Load and modify data

**Task** Create a codeblock and load the following data from the data folder:

- Prince George's County 911 Overdose Calls

You will need to create columns for the date, week and month based on the existing `datetime` column.

## Questions

**Q1.** Which month saw the greatest percentage of total calls? Create a dataframe that calculates the percentage of all calls that each month's calls represents. Make a bar chart from that dataframe. Your bar chart must have:

- A clear title that states the main idea/finding
- Good labels for the x & y axis and a caption for the source, which is Prince George's County EMS.
- Readable bars - the values shouldn't be overlapping

Compare the results here to those from the pre\_lab\_08 bar chart - are there major differences in the months with the highest and lowest figures? Describe that below.

### A1.

**Q2.** Let's visualize this data on a weekly basis using a line chart. As in Q1, generate a dataframe with the total number of calls for each week, and then create a line chart to show the distribution of calls over time. Your line chart must have:

- A clear title that states the main idea/finding
- Good labels for the x & y axis and a caption for the source, which is Prince George's County EMS.
- Readable labels