

## Day 8 - Matplotlib

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CIERA Research Group

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Your task will be to make some plots of weather data in Chicago, for a whole year, starting with the day I was born. The data is available in `weather.dat` on the github.

### 1 PROBLEM 1

Make an *Artistic, aesthetically pleasing, and **good*** line plot of the temperature as a function of time for the whole year. Label the plot with a legend. Place some text on the plot that lists the mean and standard deviation in the temperature.

### 2 PROBLEM 2

Make an *Artistic, aesthetically pleasing, and **good*** bar plot of the different weather types over the course of the year. Label the most common type of weather. Comment on the results.

### 3 PROBLEM 3

Make an *Artistic, aesthetically pleasing, and **good*** 2-D histogram which explores the correlation between date and precipitation type. Are the results what you expect? How would you rate the weather in Chicago?