

Instructions 04/06

In today's lecture we will consider file input and output in MATLAB.

To do List

1. Your vectorized implementations of the Trapezoidal and Simpson's method will be part of your next homework. Therefore I will not provide solutions today.
2. Watch the video on file input and output in MATLAB and try the exercise below.
3. Note: I have provided scripts of demonstrations shown in the videos in `file_input_output.m`

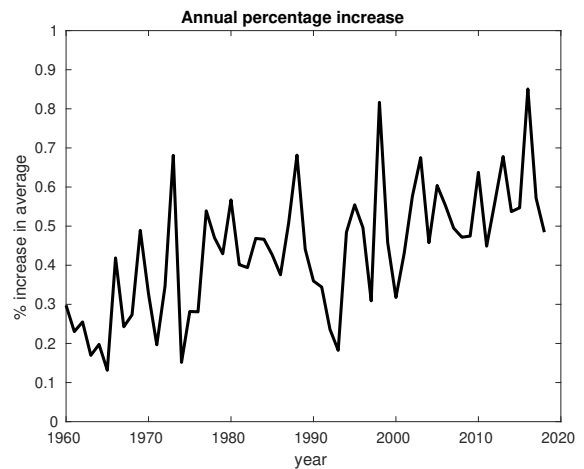
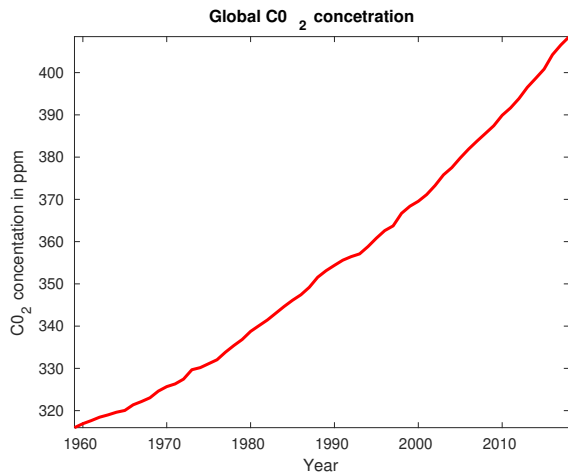
Exercise

1. Visualizing the trend of concentration of $C0_2$ in the atmosphere over time

The file `emissions.txt` (downloaded from NOAA) contains the average $C0_2$ concentration per year.

- (a) Use `fscanf` to read the data in the file `emissions.txt`
- (b) Use the data to plot the growth of concentration of $C0_2$ over time
- (c) Use the data to plot the annual percentage increase in $C0_2$ concentration over time.
- (d) Save the annual percentage increase values in a file.

2. Your solutions should look like the figure below



Objectives

By the end of this lecture, you should be able to read and write to files in MATLAB.