Assignment Web Scraping

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## What the program does

## Libraries used

#### Requests library

Requests is standard for making HTTP requests in Python.

It is used for connecting the 'https://xkcd.com' page and to find the image size

#### Os library

Os library make it possible to use operating system dependent functionality, for instances read and write files.

In the program it is used to clear the screen, make directory /xkcd/, to check if a file exists and save images to directory.

#### Bs4 library

Beautiful Soup is a Python library for pulling data out of HTML and XML files.

It is used to find the content of the “#comic img” and to get the filename of the images.

#### PIL library

Pillow is the Python imaging library.

It is used in the program to open and show the images.

#### Random library

Random library is used as number random generator.

In the program it is used in the quick sort function the get random middle values.

#### Timeit library

Timeit is for measuring the execution time for codes.

In the program it is used for time measuring the sorting algorithms.

#### Matplotlib library

Matplotlib.pyplot provides an graphical plotting framework.

It is used in the program to plot the time plot for the sorting algorithms.

## The time plot

### Plot

