**Our favourite modules**

The Python Standard Library has a lot of modules! To help you get familiar with what's available, here are a selection of our favourite Python Standard Library modules and why we use them!

* [**csv**](https://docs.python.org/3/library/csv.html): very convenient for reading and writing csv files
* [**collections**](https://docs.python.org/3/library/collections.html): useful extensions of the usual data types including OrderedDict, defaultdictand namedtuple
* [**random**](https://docs.python.org/3/library/random.html): generates pseudo-random numbers, shuffles sequences randomly and chooses random items
* [**string**](https://docs.python.org/3/library/string.html): more functions on strings. This module also contains useful collections of letters like string.digits (a string containing all characters with are valid digits).
* [**re**](https://docs.python.org/3/library/re.html): pattern-matching in strings via regular expressions
* [**math**](https://docs.python.org/3/library/math.html): some standard mathematical functions
* [**os**](https://docs.python.org/3/library/os.html): interacting with operating systems
* [**os.path**](https://docs.python.org/3/library/os.path.html): submodule of os for manipulating path names
* [**sys**](https://docs.python.org/3/library/sys.html): work directly with the Python interpreter
* [**json**](https://docs.python.org/3/library/json.html): good for reading and writing json files (good for web work)