

# numpy\_an\_introduction\_workbook

September 21, 2020

## 1 NUMPY AN INTRODUCTION WORKBOOK

Have a go at the following questions to practice your new found skills.

If you have any questions, go back to the course videos and have another look. One version of the answers is available in the next download. Remember, there are different ways to write code to get the same answer, so your answer can be correct and different to the answer example!

If you feel stuck and want some in person help, then have a look at the events page to join in a workshop <https://swamphen.co.uk/events>.

```
In [1]: # import numpy
```

```
In [1]: # create a python list of floats
        # print this out
```

```
In [2]: # convert this to a NumPy array
        # print this out
```

```
In [3]: # what is the difference between these two?
```

```
In [4]: # check the type of the two arrays
```

```
In [5]: # change the array into an integer
```

```
In [6]: # change the array into a string
```

```
In [7]: # create a NumPy array of today's date
```

```
In [8]: # check its type
```

```
In [9]: # is this going to work as a date time
```

```
In [10]: # create a valid date and time array for the date and time now
```

```
In [11]: # convert this to the correct day and time in New Zealand
         # (I recommend timeanddate.com to do this conversion)
```

```
In [12]: # convert this to the non-summer time adjusted time for where you live
```