## numpy\_an\_introduction\_workbook\_answers

September 21, 2020

## **1 NUMPY AN INTRODUCTION WORKBOOK ANSWERS**

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 []: # import numpy
        import numpy as np
In []: # create a python list of floats
        # print this out
       my_list = [3.4,5.6,2.3,9.9,5.6,2.2]
       print(my_list)
In []: # convert this to a NumPy array
        # print this out
       my_array = np.array(my_list)
       print(my_array)
In []: # what is the difference between these two?
        # comma separation
        # how they can be manipulated
In []: # check the type of the two arrays
        print(type(my_list))
       print(my_array.dtype)
In []: # change the array into an integer
        int_array = np.array(my_array, dtype = 'i')
       print(int_array)
In []: # change the array into a string
        str_array = np.array(int_array, dtype='S')
       print(str_array)
In [ ]: # create a NumPy array of today's date
        today = np.array('2020-06-02')
```

nz = now + np.timedelta64(13, 'h')
print(nz)