

FAST PACED COURSE

Important tips to succeed

- Assignments
 - Read assignments as soon as they come out and start working on them.
 - You can always come back and continue once the course material has been covered.
- Beginner in programming?
 - Practice, Practice, Practice. There are no shortcuts or substitute for this.
 - Programming is a skill. You cannot passively absorb it.
 - Download course materials before the lecture (new materials posted every Sunday) and follow along.
 - Always do textbook and practice exercises.
 - Do not be afraid to try out python commands
 - You cannot break the machine at this stage of learning
 - Worst case, you will just have to restart the machine or kill the process.

NUMPY

- Library in python
 - Allows large-scale, mathematic-scientific calculations
 - Efficient, Quick and Flexible
- Indispensible
 - Data Science Studies
 - Includes related solutions
- Short for <u>Num</u>erical <u>Py</u>thon





FOUNDATIONS OF NUMPY

- Early foundations were laid in 1995
 - Python's founder Guido van Rossum
- Travis Oliphant
 - His friends
 - Finished in 2005
- Made available to us





WHY NUMPY?

- Numpy data structures very similar to lists
- Less costly data
- Able to perform vectorial operations on the data



