

Python - Session 2

Python Introduction

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1. Lambda Functions
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Lambda Functions

- Functional Programming Paradigm (One-Line Functions)
- Used with Map, Filter, and Reduce operations
- Useful with Pandas apply method

For example, a function definition turned into a one-line anonymous function:

```
def add_one(x):  
    return x + 1
```

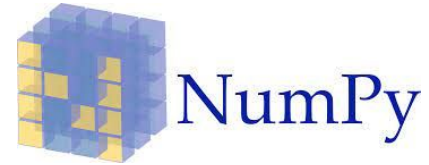


```
lambda x: x + 1
```

Reading Files

- Important for structured (csv, JSON, etc.) or unstructured data
- Text files can be used for data mining
- String methods commonly used

NumPy



- Scientific Computing
- High Performance Linear Algebra
- Bridge to AI frameworks
- IMO, It is one of the most (if not the most) well documented Python Libraries

Hands-On