



Foundations of Programming in Python – Recap lecture 1

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Course Overview

- Introduction to Programming
- Fundamental Components
 - Values, Variables, Expressions, Operators, Comments
 - Functions
 - Conditionals
 - Functions with return values
 - Lists
 - Iterations
 - Dictionaries
- Persistence

Questions from lecture 1

Questions

- **Increment/Decrement trap ($++x$ / $--x$):** Simple way to work with a “counting-variable”
- **Positive/Negative ($+x/-x$):** Watch precedence
- **Add module (package) to python:** pip is the way to go
 - <https://github.com/vinta/awesome-python>

```
python -m pip install numpy
```

- **Debugging intro**

Additional Question

- **Collaborative Latextool:** Overleaf <https://www.overleaf.com/>

Videos & Additional learning resources

- Lynda.com
 - <https://www.lynda.com/Python-tutorials/Programming-Fundamentals-Real-World/418249-2.html?org=uzh.ch>
 - <https://www.lynda.com/Python-tutorials/Python-3-Essential-Training/62226-2.html?org=uzh.ch>
 - Example:
 - <https://www.lynda.com/Python-tutorials/Ifelse-chains/418249/459142-4.html?org=uzh.ch>
- Codeschool.com
 - <https://www.codeschool.com/courses/try-python>