

Course Summary

Quiz 13

Our goals

- Understand the basics of Python.
- Learn some business applications of Python.
- Learn how to think like a programmer.

Key topics

	Module	Topic	Reading
1	Introduction	Overview	Chapter 1
2	Core objects	Numbers	2.1
3		Strings	2.2
4		Lists and tuples	2.4
5	Conditionals and loops	Conditions and <i>if</i> statements	3.1, 3.2
6		<i>while</i> loops	3.3
7		<i>for</i> loops	3.4
8	Functions and program design	Functions I	4.1
9		Functions II, recursion	4.2, 4.3, 6.4
10		Object-oriented programming	7
11	Data handling	Data processing	5.1, 5.2
12		Data visualization	
13	Summary	Course Summary and Review	

Advanced classes

- IS3240 Advanced Python (sample topics: NumPy, Pandas, matplotlib).
- IS4861 Machine Learning for Business.
- Computer science classes

How to review for the final?

- Go through the in-class examples.
- Hand-written coding for Classwork and Homework questions.
- (Week 12 materials except the part of dictionary will not be tested)

Technical Interviews

- You may be asked about Python or other computer programming experience for your future job interviews.
- [Preparing for a Python Interview: 10 Things You Should Know](#)
 - 00:37 Know how to write code on a whiteboard or paper
 - 01:29 Know basic python control flow
 - 02:50 Be able to discuss how you've used python
 - 04:46 Know how to solve common interview problems
 - 08:42 Know basic python datatypes and when to use them
 - 11:08 Know how to use list comprehension
 - 12:39 Know how to use generators
 - 14:59 Know the basics of OOP
 - 17:55 Have Python related questions ready to ask your interviewer
 - 19:46 Know the basics of other technologies

Some tips from week 1

- Know what you want & Have a plan
 - Plan ahead for interns or graduate schools.
- Classes
 - Don't take (elective) classes for easy GPA.
- Skills
 - Sharpen communication skills.
 - Sharpen analytical skills (e.g. math, programming).
 - Learn some finance (especially if you will work in HK).
- Stay positive.

A life lesson from Barack Obama

Be kind and be useful.

Thank you and good luck!

Course evaluation

<https://onlinesurvey.cityu.edu.hk/tlq/Studentlan/Student>

