

MIS3640 - Problem Solving and Software Design

2020 Fall



So, how are you doing?

Please introduce yourself, including:

- **Who** are you? **Where** are you now?
- Which **year** are you in? What **concentration**?
- **Why** are you taking this class?
- Do you have any **programming experience**?
- How can we **remember** you?

Agenda

- Introduction to the course, syllabus and deliverables
- Term Project (*mentioned*)
- Software
 - Python
 - Visual Studio Code, and extensions
 - Python
 - [GitHub.com](https://github.com), GitHub desktop
- Write your first Python program!

Syllabus

- Instructor: Zhi Li (李直)
- Email: zli@babson.edu
- Office Hour:
 - by appointment
 - Canvas/GitHub/Slack

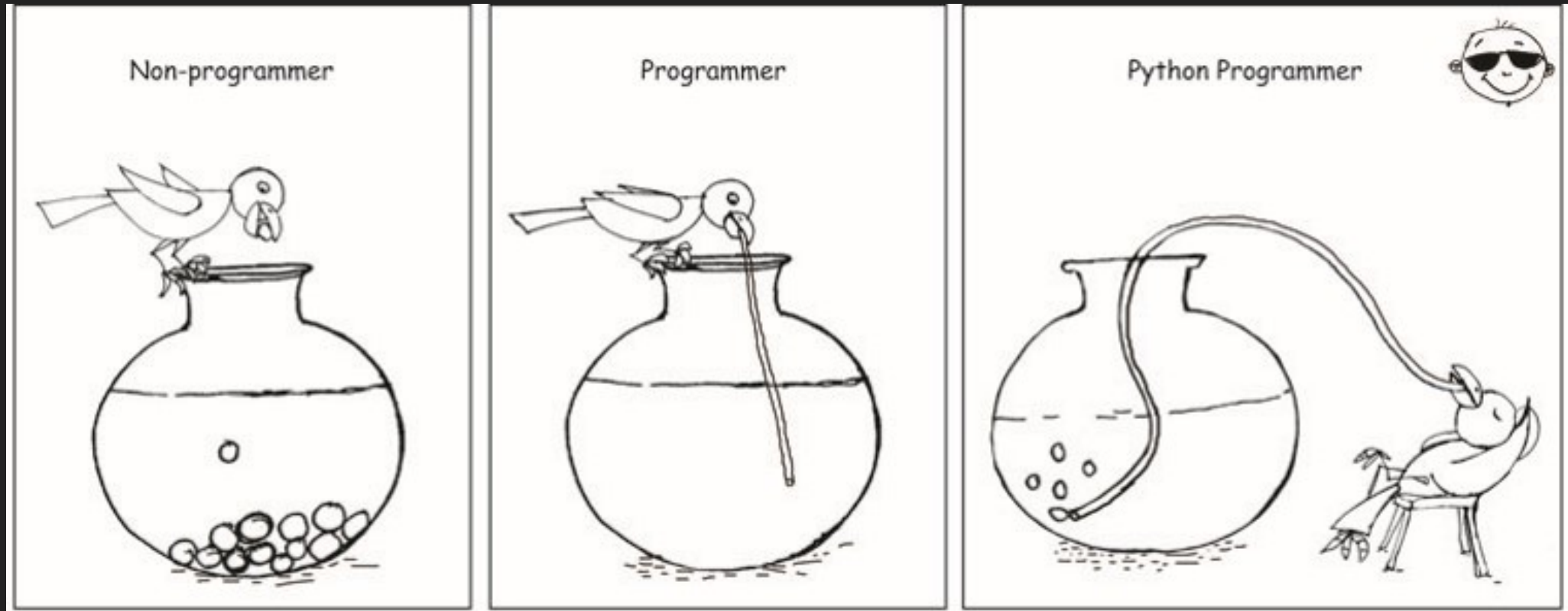


Syllabus

- Course Objectives
- Prerequisites and Textbook
- Software
- Term Project - a personal website
- Graded Homework/In-Class Exercises/Exam
- Grading
- Course Policies

How to Learn Python Programming?

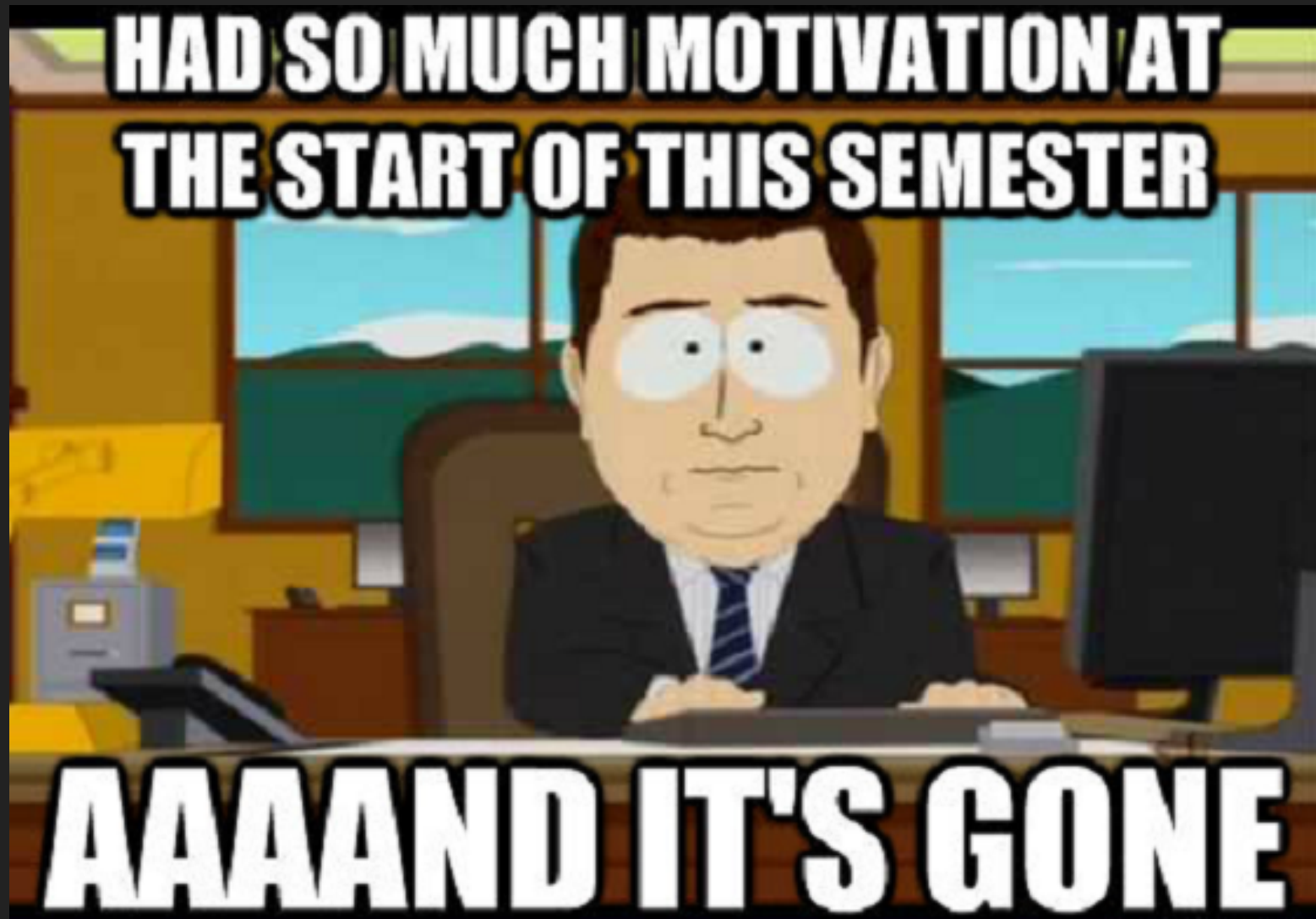
Python is ...Simple and Elegant!



However, coding is hard.

It takes time to get good at coding.







Further reading: [There's no such thing as bad code](#)



There are NO STUPID QUESTIONS

or stupid answers



but you can ask questions in a smart way

Further Reading: [The XY Problem](#),
[How To Ask Questions The Smart Way](#)

What If I need to..?

- figure out how to sort a list of numbers?
- understand a warning/error/alert, aka. *debug*
- find the solutions to XXX?
- hack my router?
- ...?



More on How to Succeed in this Course

- Do not take the “*couch potato*” approach
- Think of my code as one of the “answers”
- You need to code by yourself
 - This force you to think in certain ways and ask specific questions
- After you’ve attempted it yourself, look at my code and think about what you were missing and why



More on How to Succeed in this Course

- People *new* to programming don't know what it is like to be a programmer, or to take a programming course
- If you expect things to work the *first time*, you don't have a good sense of what it is really like
- **Don't give up** at the *first sign of error*
- **EXPECT**: to spend hours, entire nights, even multiple days getting things to work
- This is where the **REAL LEARNING** happens
- Being spoon-fed answers leads to *WEAK* problem solving abilities.

Questions?

Now, prepare to get your hands dirty!

