

Python Bytes Parent Info Night

From Beginner to Advanced
Coder in 8 months

Agenda

Goal of the Python Byte Club - Why Coding, Why Python

Plan - syntax, practice, team, project, forum via discord,

Two levels of Class : Level 1 & Level 2

Coaches & Volunteers

Programming Competition Club

Goal

Invoke students' interest into coding

Teaching Python Language Fundamentals

Learning by doing

Study group

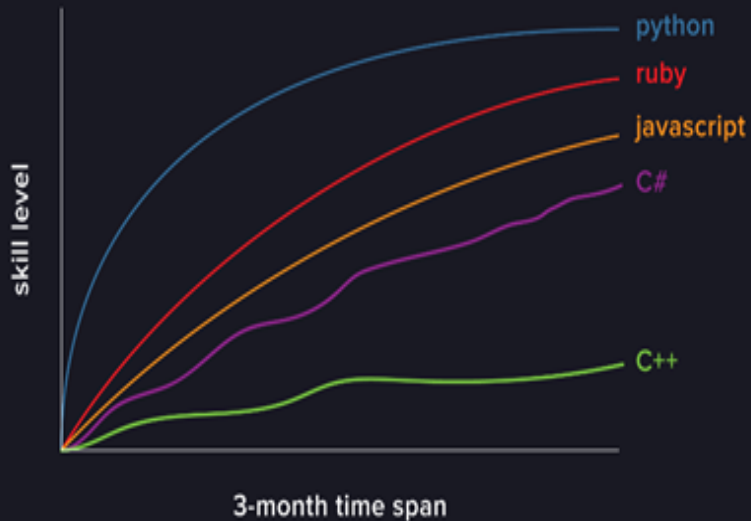
Allow students to advance at their own pace

5 reason to learn Python



Learning a New Stack

based on skill level



JAVA

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("I'm awesome");  
    }  
}
```

C++

```
#include <iostream>  
  
int main() {  
    std::cout << "I'm awesome.\n";  
}
```

Python

```
print("I'm awesome")
```

5 reason to learn Python

2. Useful: Once you learn it you can find opportunities in Automation, web development, data science, machine learning, AI, web scraping, game development,
3. Value and Demand
4. Community & Open Source
5. Resources - over 125,000 third-party Python libraries

If you want to learn coding but haven't decided what to do with it then Python is the obvious option. As it gives you a choice to switch between different fields with its flexibility.

Levels of Class

Level 1 - Beginner

Students who have zero coding experience

Start from Syntax, then move on with projects

Level 2 - Intermediate

Students learned Python Syntax

Start projects from the beginning.

Level 1 Schedule

Wednesdays 6:30 - 8 pm, on Zoom meeting

- 45 min lecture
- followed by small group breakroom sessions
- Daily read or practice for 10 minutes.
- Followup and doubt clearance over discord

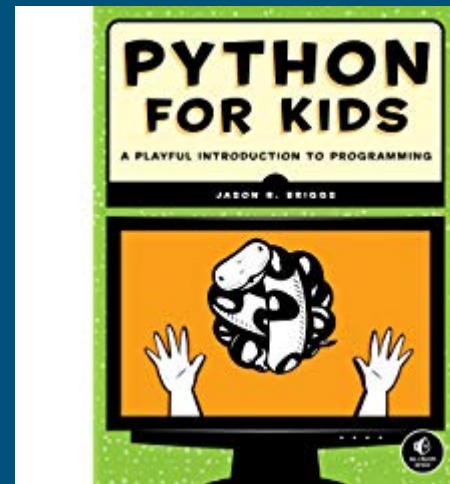
Plan

Classroom: Teach The basic Python Syntax Ch 1- 12

Study group: Meet weekly

1. Review the Python **syntax**
2. Solve the **puzzles**
3. **Code** the projects
4. Have **fun**

Online coding Platform: <https://replit.com/>

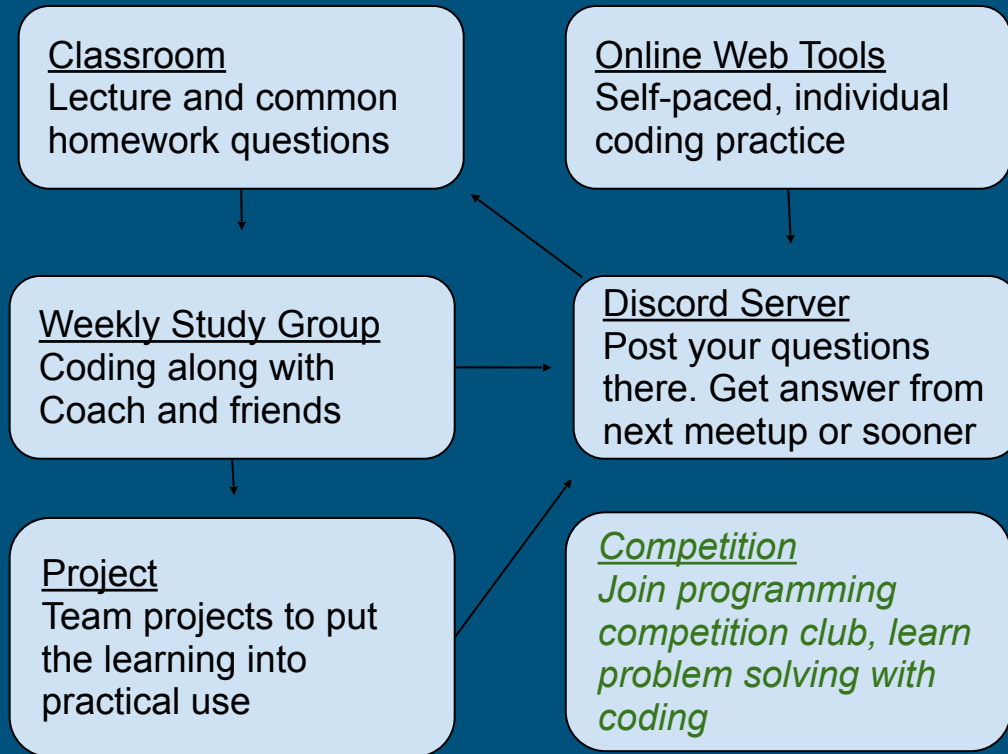


Level 2 Schedule

Wednesdays 6:30 - 8 pm, Zoom meeting

- Project based learning
- CodingGame
- Programming Competition Optional: Thursdays (more details to come)

The Path to Proficiency



Plan cont.

Project: Small Group Projects using repl.it online IDE or python IDE

Discord: Online communication Server to collaborate.

Team coach to help team:

- a. Learn Python along with kids.
- b. Remind them to read the book.
- c. Coach the team to solve the puzzle, complete the project, make progress.
- d. Help team to ask clear questions (in session or over Discord).

Fundamentals

The 3 things to commit to in your Python Bytes journey

1. Code every day
2. Find the right problems
3. Build un-stuck-ify methods and skills

The volunteer team - so far...

Chair: Reji Dasan

Advisors: Rob Fatland (UW Computing Director), Wei Lu (Advisor & Level 2 Lead Instructor)

Parent Instructors : Hu Dong, Royce Wong, (**seeking more.....**)

Other Coaches: Aadya, Kesh, Sai, Akansh, Nandini, Dhruv, Logan

Requirements & Logistics

- Need a home laptop to install Python tools for the coding projects. (school laptop would not work)
- Year Long Club - meets **every Wednesday Zoom 6:30 p.m. - 8:00 p.m.**
 - Follows BSD Calendar, Breaks and Holidays
 - Will have few in-person events in School Campus
- First Session: **October 12 (Wednesday), 6:30 p.m.**
- Check and respond in **Discord**, such as cancellation of club activities, other announcements
- **Tyee PTSA membership**

Programming Competition Club - Johannes Grad

What is the Programming Competition Club?

The starting point to compete.

Multi-year effort in programming competition preparation.

What type of student might benefit for joining both Python Club and Programming Competition Club?

Registration Info: Please attend Parent Info Night on 9/29 at 7:00 p.m. Check Tye Times for details

Registration - Python Bytes Club

- Seats available: 50 (including both Level 1 & Level 2)
- Registration Opens: **October 3 (Monday), 4:00 p.m.**
 - tyeepsa.org -> Programs -> Python Bytes Club
- Registration Fee : **\$50 (non-refundable)**
 - Scholarships available
- Tye PTSA membership required prior to registration (please join or renew here <https://tyeepsa.org/>)
- First Session: **October 12 (Wednesday), 6:30 p.m.**
- Contact tyeepythonbytes@gmail.com or pythonclub@tyeepsa.org for more information (including scholarships)