CODEPATH*ORG

Welcome to CodePath!

TIP102

Week 1

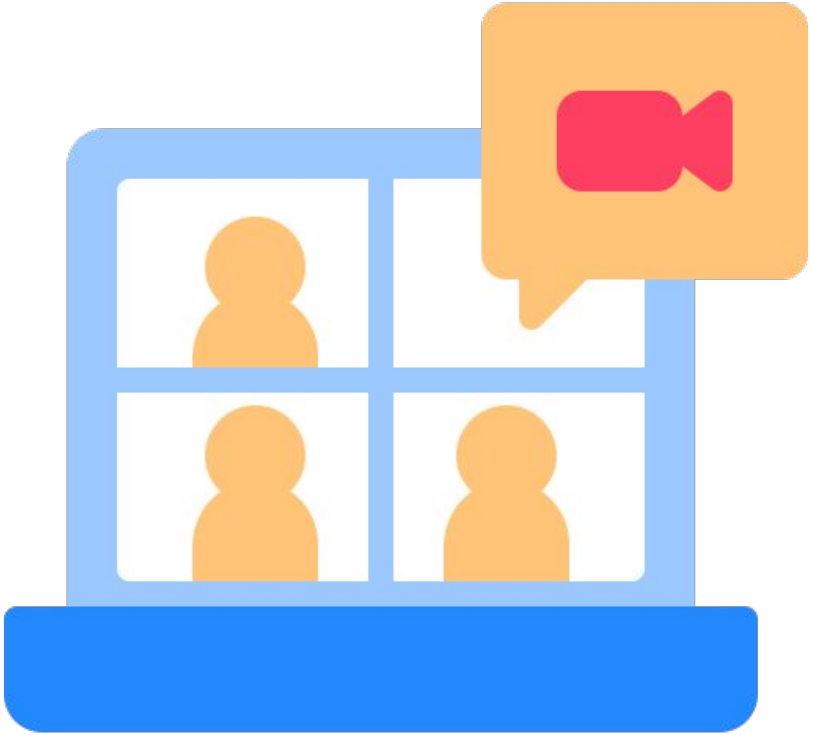
How are we going to get there?

1	Welcome! 👋🏽	0:00 - 0:15
2	Course Structure	0:15 - 0:35
3	Technical Interviews	0:35 - 0:45
4	**BREAK**	0:45 - 0:50
5	Collaborative Problem Solving	0:50 - 1:50
6	Wrap Up	1:50 - 2:00

15 minutes

Welcome! 

Turn on your cameras!



Dan Sohval

"We make the road by walking"
Paulo Freire

About Me

- Technical Product Manager, McGraw Hill
- Former Founder, Product Lead, and Software Engineer
- CS Educator at CodePath, Kira Learning, Multiverse, Fullstack Academy
- Fulbright Scholar to S. Korea

Favorite Things

- Reading, yoga, horror movies, cooking, dogs, Central Park

Fun Facts

- Performed stand-up comedy on 3 continents
- Published a sci-fi novel

What are our goals for this week?

- To have a clear understanding of the structure and expectations of technical interviews, as well as the course policies that will support your learning journey.
- To begin developing effective strategies for independent learning and peer collaboration.

Ice Breaker

You can instantly learn **any language**
(human or programming)

What language do you choose?

```
func main() {
    fmt.Println("Hello, 世界")
}
```

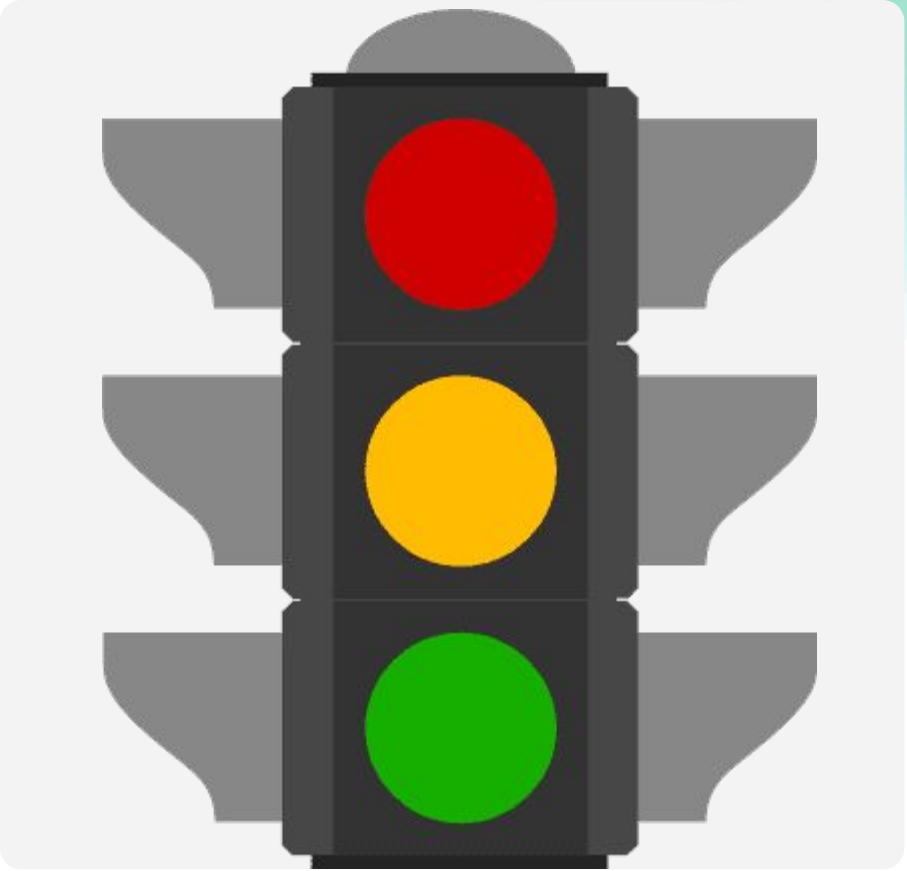
Traffic Lights

Periodically, I'll ask you to enter your traffic light in the chat

GREEN — Keep going!

YELLOW — Proceed Slowly

RED — Stop!



20 minutes

Course Structure

Class Structure

- 2 sessions per week – **Tuesdays** and **Thursdays**
  - 45 min Guided Exploration
  - 1 hour Collaborative Problem Solving
- Optional office hours on Mondays, Thursdays, and Fridays
- Weekly HackerRank assessment due by Monday at midnight

Adaptive Pacing

- During the Collaborative Problem Solving time, you will be in breakout rooms of 3 to 6 students.
- Skip units by passing the HackerRank assessment.
  - If you look at the Collaborative Problem Solving questions and you can self-practice, take the assessment early.
- Keep working on a unit until you pass the HackerRank assessment (up to 3 attempts).

🏆 Benefits for Course Completion

All students who meet the **attendance requirements** and **pass 6 HackerRank assessments** will be considered a CodePath alumni and:

* Receive a (digital) CodePath certificate of completion.
* Gain access to CodePath alumni networks.
* Have continued access to the CodePath Career Center and be eligible for mentorship opportunities with CodePath professional alumni through Codepath Mentor Network.
* Be invited to the CodePath Emerging Engineers Summit (EES) after the completion of the course.

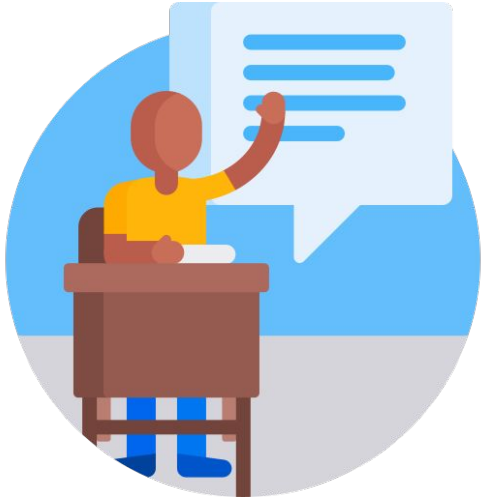
Policies: Attendance

* Attendance at all sessions is mandatory.
* You are allowed up to **3 absences** throughout the entire program.
    - You do *not* need to submit a request to use these absences.
    - You will be marked late if you arrive after the session starts.
* Students who are absent must still submit the coursework for a unit by the posted deadline.

How do I get the most out of this course?

Engage in class ***fully***! That means . . .

* Taking notes
* Speaking up
* Using the tools and strategies



How do I get the most out of this course?

Practice! Practice! Practice!

How do I get the most out of this course?

Aim for one passed unit per week

How do I get the most out of this course?

Share gratitude and shoutouts regularly

Be Fully Present

* In the session for **at least 90 minutes**
* Fully engaging **visually**, **verbally**, and **technically** without reminders, requests, or interruptions

Visually, Verbally, and Technically

On camera and on mic

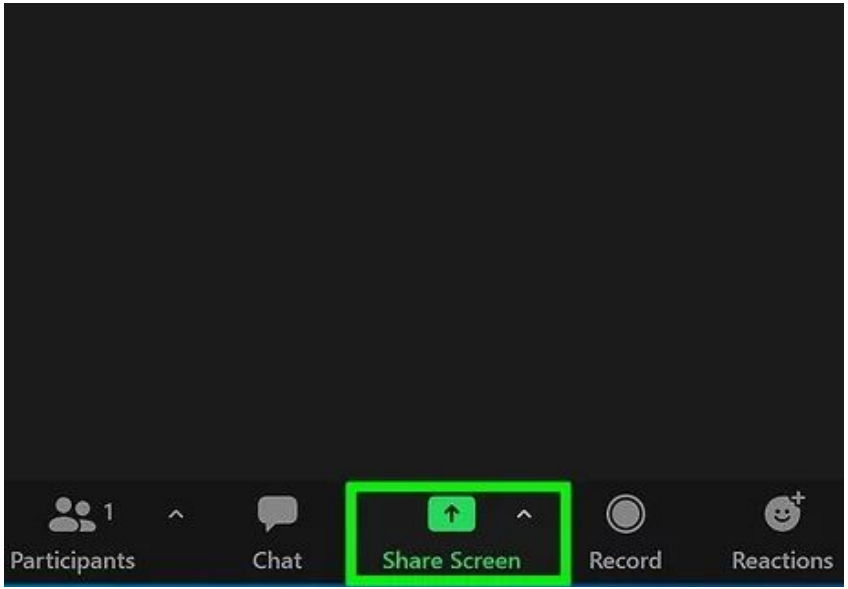
Note: Bathroom breaks are acceptable! Please fully exit the Zoom, and re-enter after your bathroom break.

Visually, Verbally, and Technically

Single-location, well-lit, quiet environment - no background noise or distracting visuals detectable.

Visually, Verbally, and Technically

Able to share your screen



Visually, Verbally, and Technically

Consistent Internet

⚠️ Is this course right for YOU?

This course is not for students who . . .

* Do not have a working camera or microphone.
* Are moving, traveling, working, multi-tasking, or in a noisy environment during class.
* Drop more than 3 times during a session due to Internet issues.
* Are using a phone to connect to class.
* Do not wish to respond actively and verbally during class.

Having Trouble?

I need help or have questions about Slack, the course structure, etc.

Attend a weekly Fix-It Garage Session.

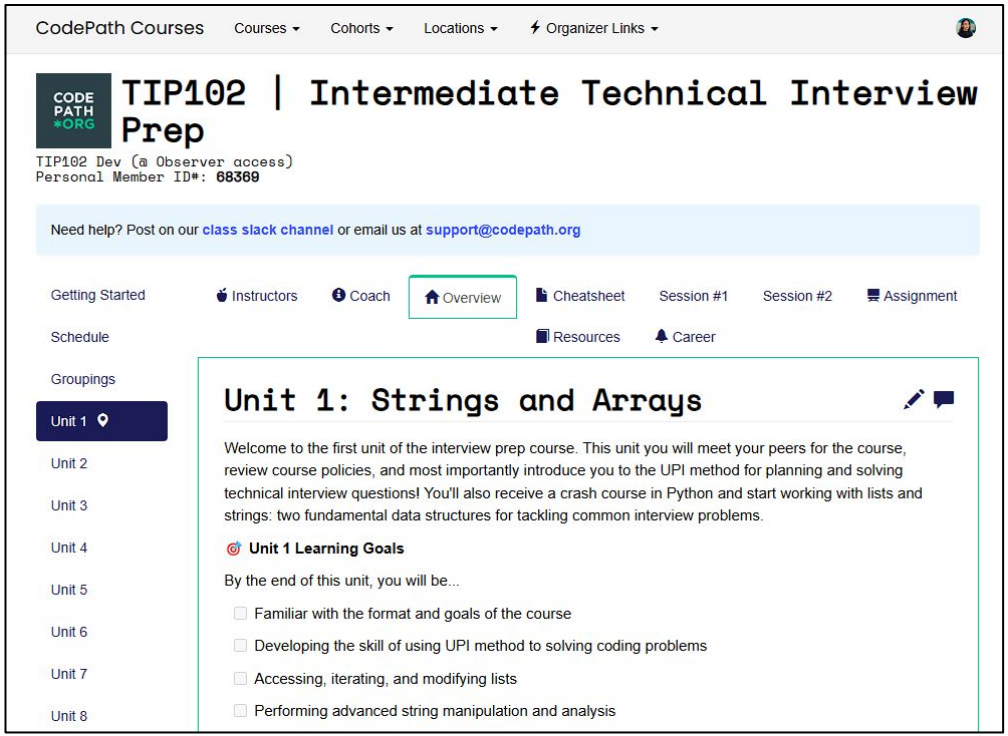
I need help or have questions about Python or understanding a problem.

Attend a weekly Study Hall.

Instructor Demo

5 minutes

Let’s check out the Course Portal!



Instructor Demo

10 minutes

Python and VS Code Tour

* Unit 1 Cheat Sheet
* General Python Cheat Sheet

10 minutes

Technical Interviews

What *IS* a technical interview?

* A **technical interview** assesses your problem-solving skills, coding abilities, and technical knowledge.
* Typically algorithmic challenges and data structures problems.
* The goal is to evaluate how you think, communicate, and code under pressure.

Discussion

2 minutes

In the chat . . .

What skills do ***you*** think are most important for technical interviews?

What do interviewers look for?

- Ability to **break down complex problems** and **devise a solution**
- Writing **clean**, **efficient**, and **bug-free code**
- Understanding of **algorithms** and **data structures**
- Clearly articulating your **thought process** and **reasoning**
- Efficiently **managing time** to solve problems

Discussion

2 minutes

In the chat . . .

Why do you think it’s so important to explain your thought process during a technical interview?

How do I prepare?

* Regularly solve coding problems on platforms like LeetCode
* Study and practice algorithms and data structures
* Participate in mock interviews
* Look up past interview questions asked by companies
* Practice explaining your thought process clearly and concisely

Break Time!

Take 5 mins to step away from the computer. Feel free to turn off your camera and return promptly after 5 mins.

60 minutes

Collaborative Problem Solving

Instructor Demo

5 minutes

What does **Collaborative Problem Solving** look like?

Let’s observe! 👀

Breakout Rooms

55 minutes

1. 🏃 Navigate to your breakout room.
2. 👋🏽 Introduce yourselves!
3. 👩🏽‍💻 Work on the Unit 1 Session 1 problems.

10 minutes

Wrap Up

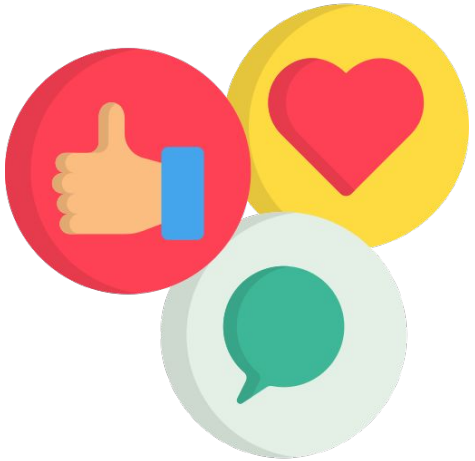
One Good Thing

Let’s reflect on today’s session. Maybe you got a question answered, overcame a specific coding challenge, or learned how to do something completely new!

In the chat, share at least one good thing you’ve learned or experienced during the session today.

Let’s celebrate together!

Session Survey Time!



Final Reminders

- Finish the problem sets for additional practice
- Take the weekly HackerRank assessment by Sunday @ midnight