American Code Lab

Powered by Code Fellows

CODE 102

Intro to Software Development

Agenda

1. Campus Orientation & Intros

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2. Learning to Learn
   - Growth mindset
   - Demo & Lab

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3. Web Publishing
   - Markdown
   - GitHub Pages

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<welcome>

Code 102: Intro to Software Development

Campus Orientation

We designed this place to help you learn

“

Thank you for a friendly environment, instead of feeling overwhelmed I felt welcome and able to learn. I can't wait to come back!

—Code 101 student

Our Vision

American Code Lab is created to help solve a specific, existing and continuing world-wide problem: "lack of qualified software engineers at all levels across business sectors", in the times of mega-trend digital transformation.

Code of Conduct

Safe Learning Environment

This is an environment where every individual is safe and respected.

Harassment and discrimination of any kind will not be tolerated.

If you have concerns, please notify your instructor, TA, and/or email us at contact@americancodelab.com.

Full code of conduct pinned at: github.com/codefellows

Virtual Expectations

1. Be available during core hours
2. Use video conferencing. Make sure your camera is on when speaking
3. Use “mute” if you have background noise
4. Appropriate attire is required while on video calls
5. Collaborate with your classmates and participate in lecture
6. Respect your classmates and the instructional staff work hours

Self-Care

1. Take breaks
   a. Meal breaks
   b. 10 minutes away from your computer if frustrated
2. Ask for help
   a.15 minute rule!
3. Time management
4. Make a schedule/routine
5. REST!

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Student Resources

zoom

Remo

slack

Tutoring Program

CANVAS

Student Surveys

The Classroom

Expectations

- **90% attendance required.**
- **Engage in equal participation.**
- **90% overall grade is required to pass this course:**
  - **Assignments are pass/fail.**
  - **There is homework.**
  - **Quizzes allow you to review key concepts.**
  - **Final exam is pass/fail: 80% correct is required to pass.**

The Classroom: Canvas

Course Invitation Inbox ×

Instructure Canvas <notifications@instructure.com>
to me

You've been invited to participate in the course, seattle-102d4: Intro to Software Development. Course role: Teacher

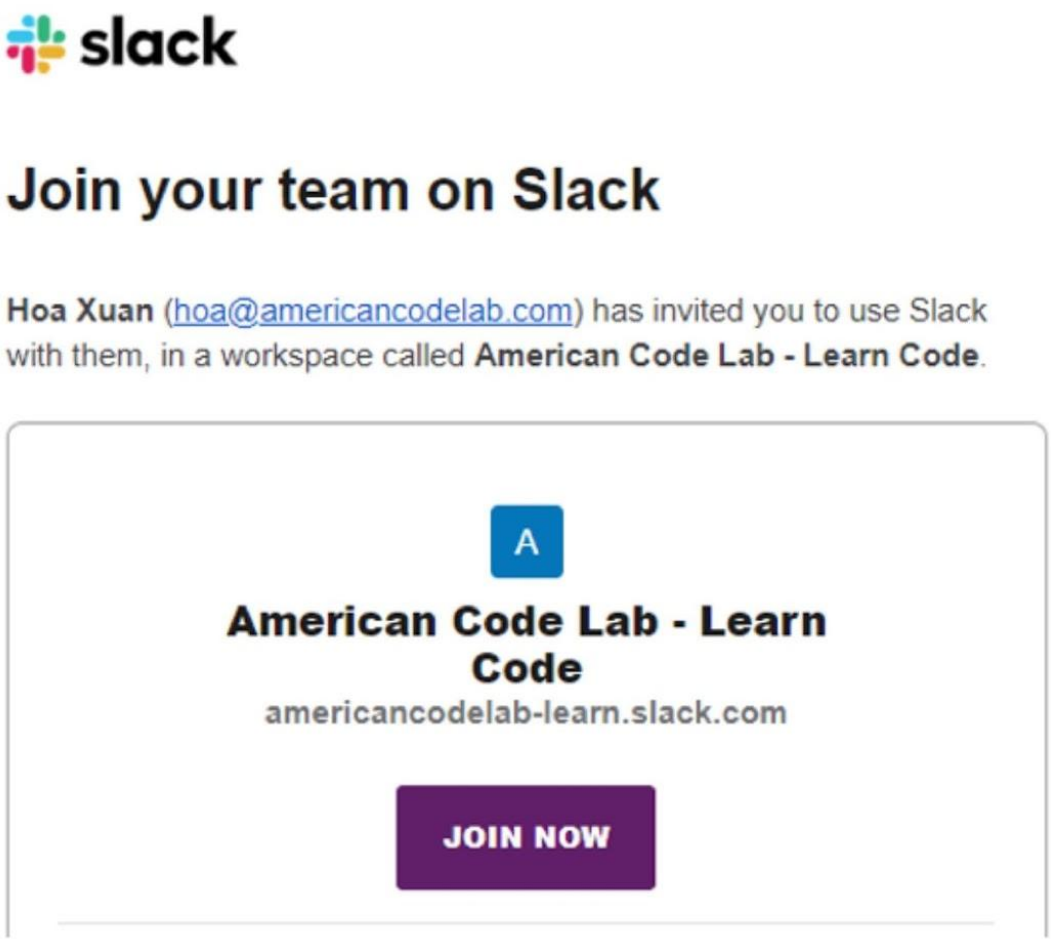
Name: [redacted]
Email: [redacted].com
Username: [redacted]com

Get Started

CANVAS

Click here to view the course page | Update your notification settings

The Classroom: Canvas



Introduce yourself! Tell us ...

- **Who are you (nickname/pronoun)?**
- **What industry did you come from?**
- **Share why you are in this class, now?**
- **A fun and/or geeky fact about you?**

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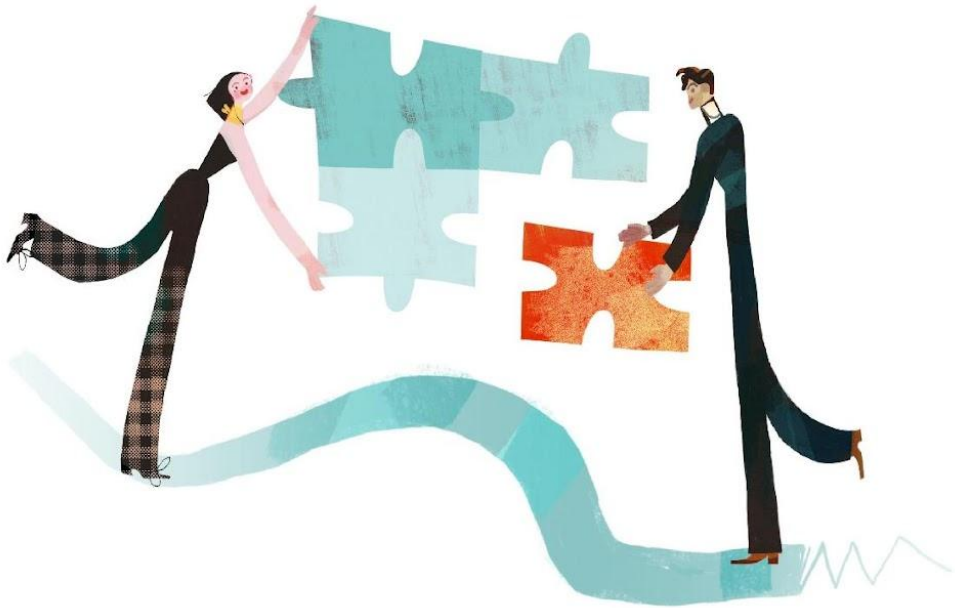
<how to succeed>



Prepare to fail: it is part of the skill development process

Learn to Learn

“

Muad'Dib learned rapidly because his first training was in how to learn. And the first lesson of all was the basic trust that he could learn. It is shocking to find how many people do not believe they can learn, and how many more believe learning to be difficult. Muad'Dib knew that every experience carries its lesson.

—Frank Herbert
Author, Dune

How You Will Learn

Let's take a look a the different learning styles used in this course

Path Learning

- Leads you along
- Students are consumers of information
- Predictable outcomes
- Creates dependency
- The goal: an exchange of information

Sandbox Learning

- **Fosters exploration**
- **Students are co-creators of their own learning experience**
- **Wide range of outcomes**
- **Creates autonomy**
- **The goal: learning and discovery**

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Skills for Sandbox Learning

- Generating and selecting ideas: what do you want to learn now?
- Planning your learning: managing scope, finding resources
- Experimentation: keeping track of what you've tried, what's worked, and what hasn't
- Reflection: pausing every so often to tally what you've learned, and what new questions you have
- Finding help!

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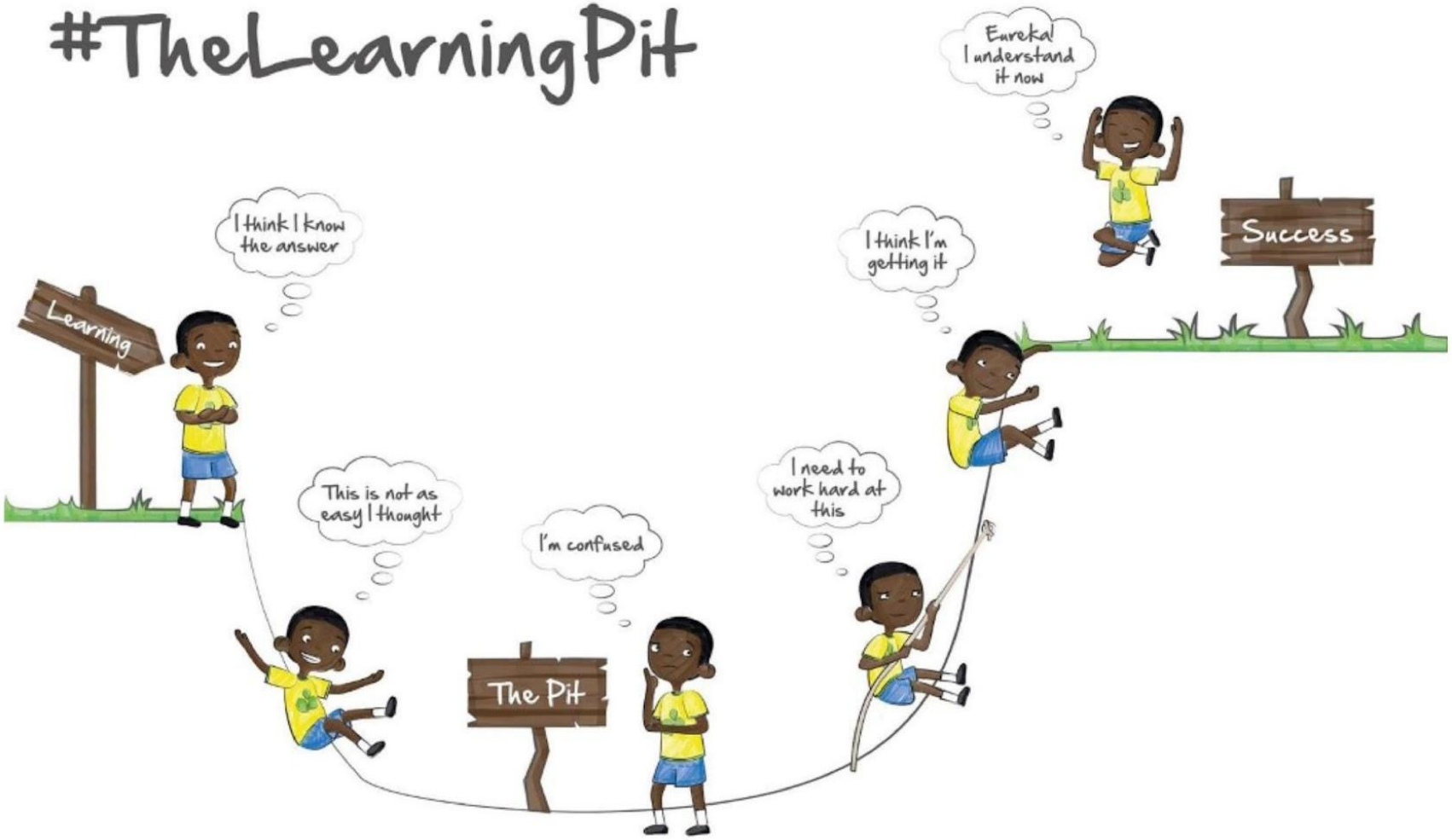
#TheLearningPit



The Learning Challenge
by James Nottingham

What is Mindset?

- Mindset: self-perception or “self-theory” that people hold about themselves.

- Fixed mindset: believing basic qualities, like intelligence or talent, are simply fixed traits. Believing that talent alone creates success—without effort.

- Growth mindset: believing that people’s most basic abilities can be developed through dedication and hard work—brains and talent are just the starting point.

Prepare Your Brain

“

A few modern philosophers assert that an individual’s intelligence is a fixed quantity, a quantity which cannot be increased. We must protest and react against this brutal pessimism... With practice, training, and above all, method, we manage to increase our attention, our memory, our judgment and literally to become more intelligent than we were before.

—ALFRED BINET
Inventor of the IQ test

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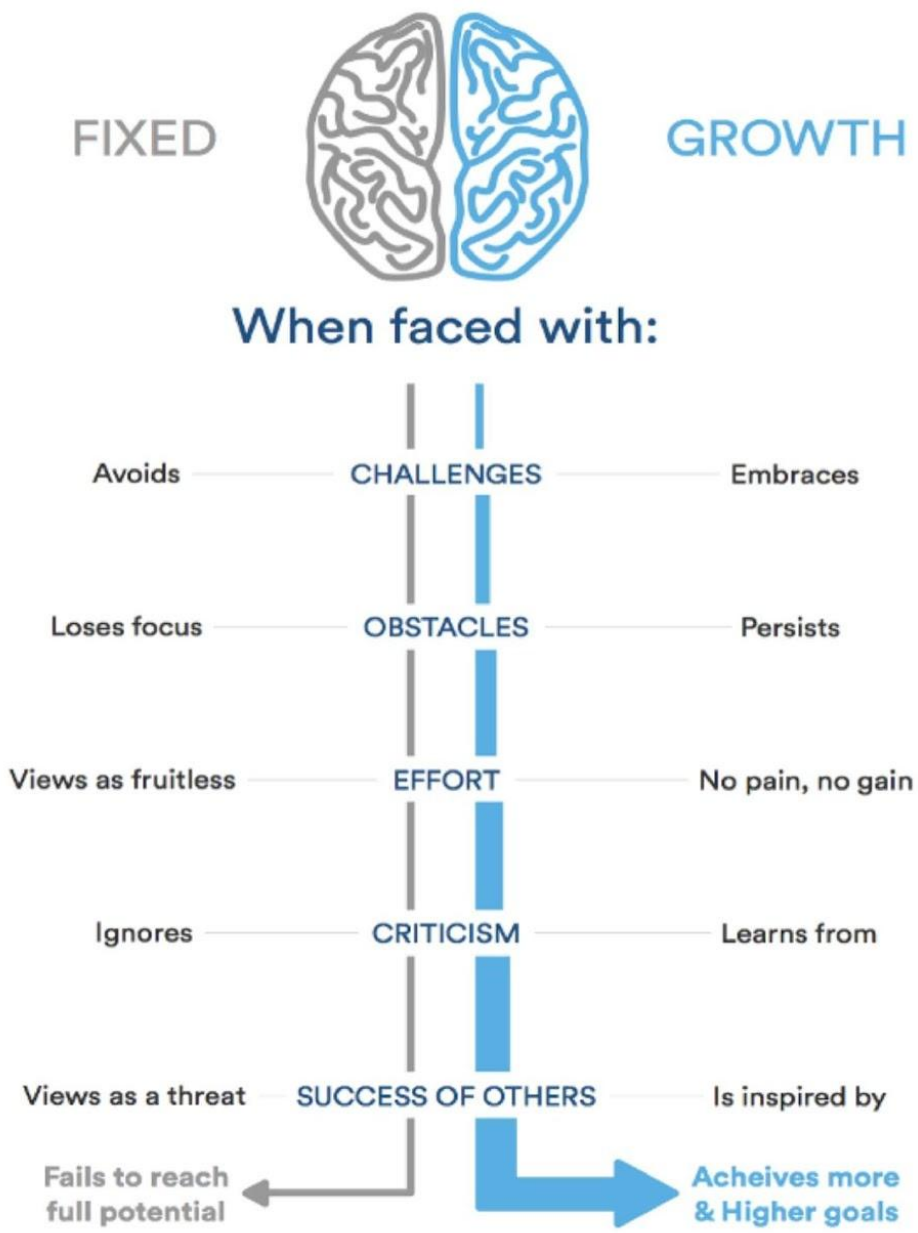

Image: https://www.atlassian.com/blog/inside-atlassian/growth-mindset

Get into a Growth Mindset

When you want to tell yourself...	Remember that...
~~I'm not good at this.~~	No one is good at it when just beginning
~~I give up.~~	Trying a new strategy will give you a way forward
~~This is too hard.~~	It's meant to be hard. We grow by challenging ourselves
~~I made a mistake.~~	That proves you've put in effort. What effort is helpful next ?
~~I'll never be that smart.~~	Being smart is something you learn
~~My classmate can do it, but I can't.~~	There was a time they couldn't either. How'd they get to where they are now?
~~It's not easy... I can't figure it out... I don't know...~~	"...yet"

<exercise>

Ready to learn a new thing?

- Group exercise
- Canvas lab assignment

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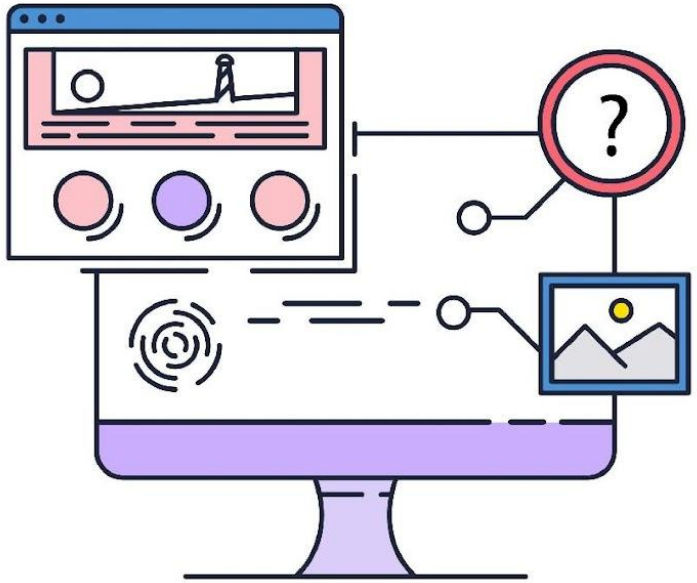


What did we learn about:

- GitHub Pages
- Markdown

Why Markdown?

- HTML gives you significant control, but slows down authoring
- Web sites often exist primarily as a way to publish **content**
- What if the **process of writing** the page was also focused on content?

Why Markdown?

- Markdown is a lightweight markup language for generating HTML files.
- It is not a WYSIWYG editor like MS Word or Google Docs
- Instead, it uses textual symbols to indicate the structure of the page
- For example:

This is a Heading → **This is a Heading**

Why Markdown?

- **GitHub uses Markdown pretty much everywhere:**
  - **Top-level README.md files are auto-rendered**
  - **Any other .md files**
  - **Issues, comments, code reviews, etc...**

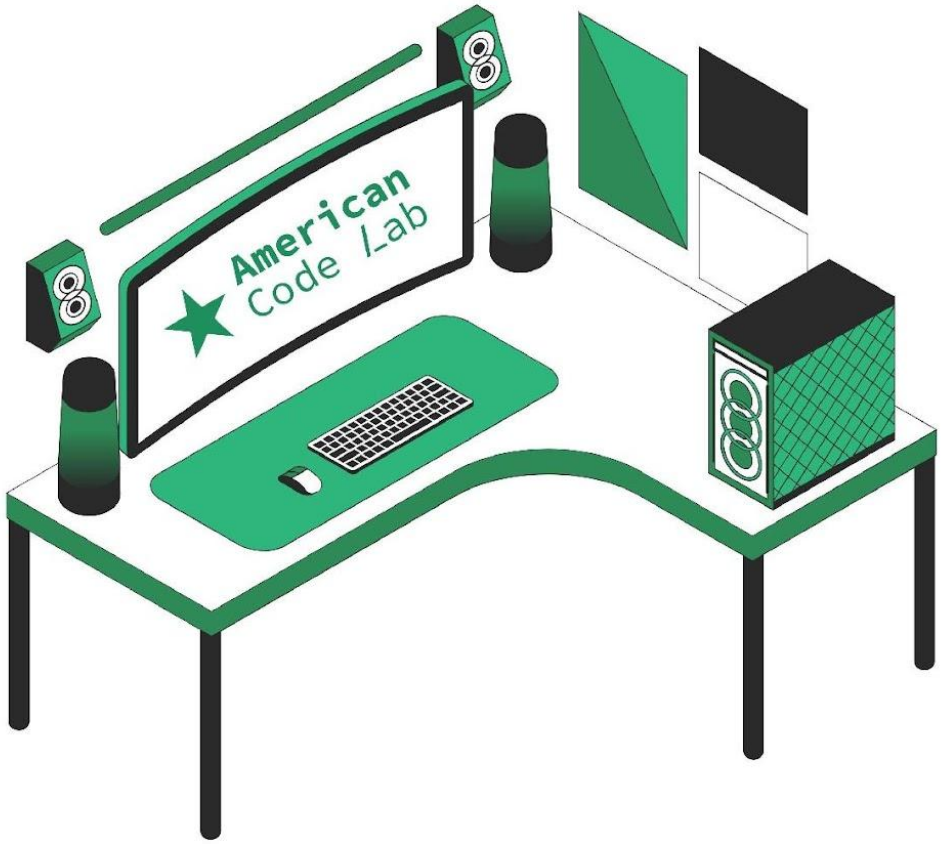
- **GitHub Pages will convert your Markdown, apply a theme, and publish it!**

- **Exact syntax is covered by many great guides (links in the assignment).**

- **Go experiment with it, and see what you can learn!**

<exercise>

Complete your Discussion assignment in Canvas



Thank you!