

## ***Topic 1:*** ***Introduction***

- 🏰 An overview of where this course fits in the life of a Computer Science major.
- 🏰 An overview of JavaScript: evolution strengths, weaknesses and why the use in this course.
- 🏰 Get started with basic development tools for the course
  - VS Code IDE
  - Remix
  - Docker
  - Git

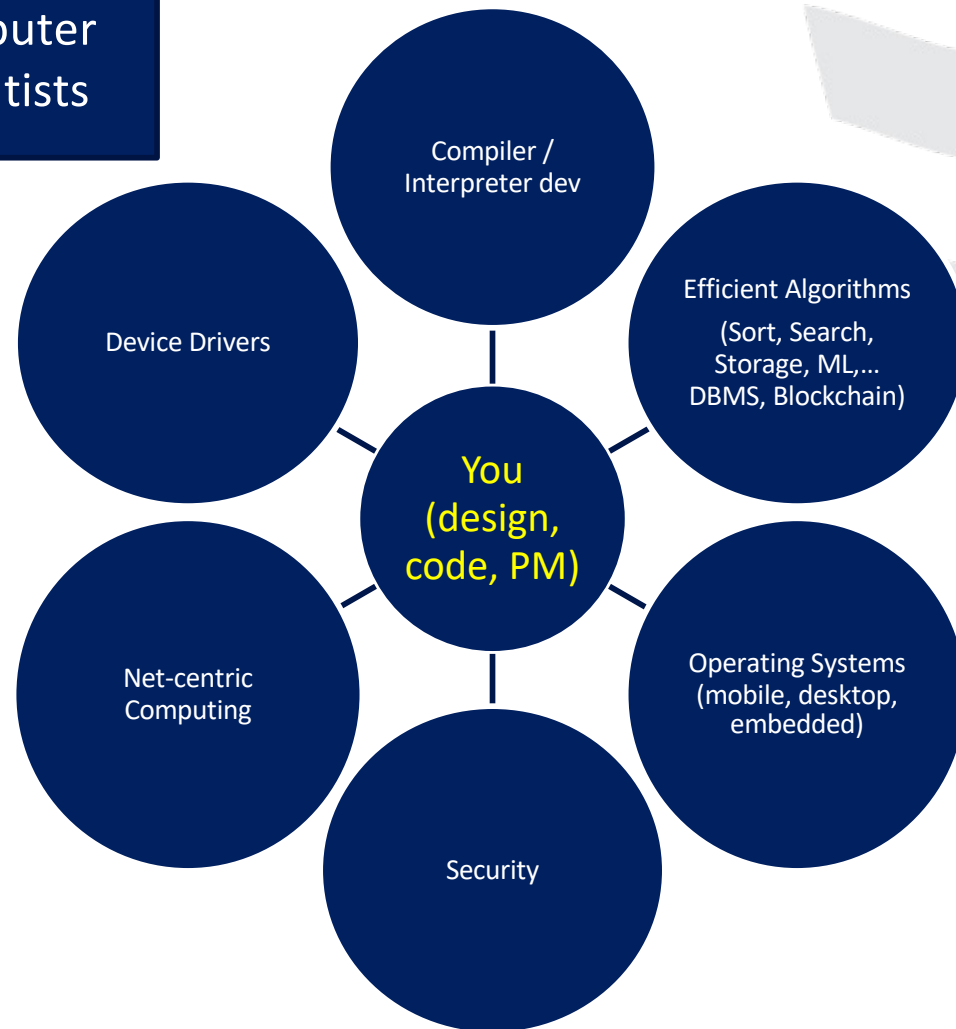
## *...Topic 1: Introduction*

- An overview of where this course fits in the life of a Computer Science major.

*...Topic 1:*  
**Introduction**

**CS Problem  
Domain 1:  
Mainly  
computational  
systems facing**

Domain 1 is  
primarily for  
Computer  
Scientists

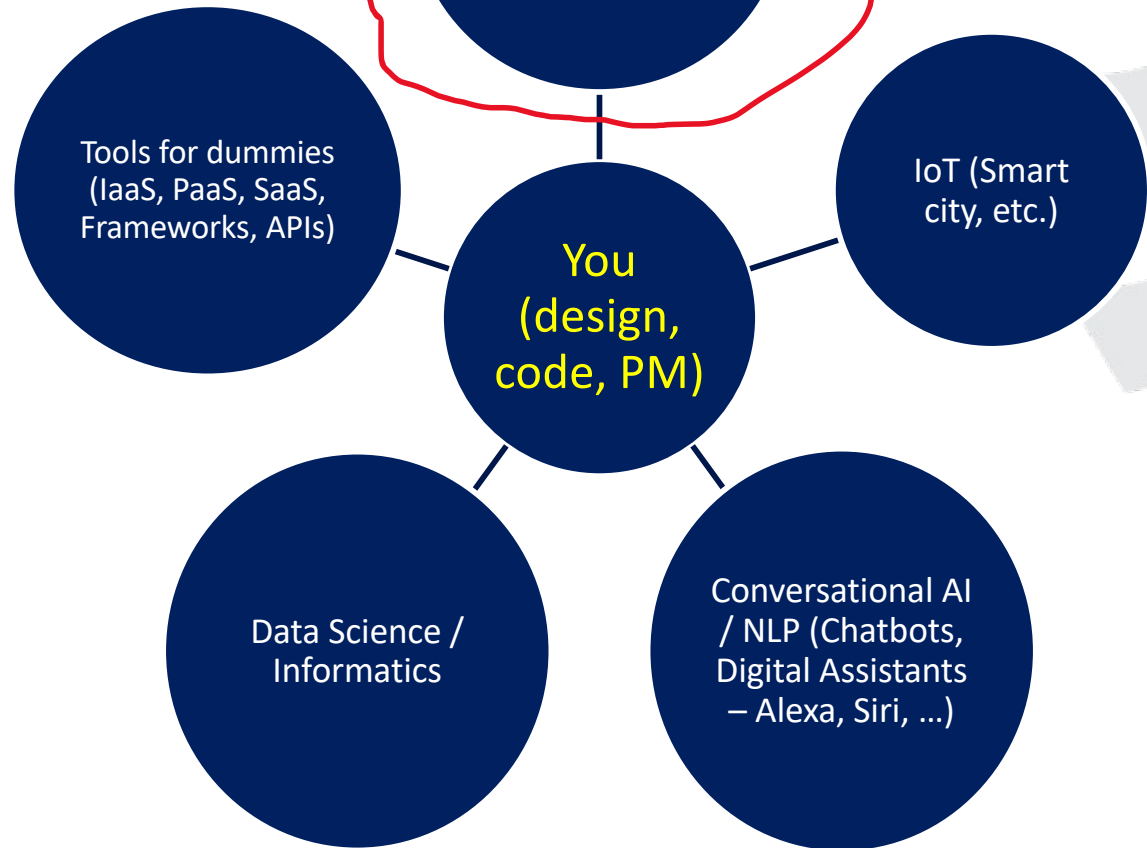


C/C++, and related (e.g. Rust), Assembly, Java

*...Topic 1:  
Introduction*

**CS Problem  
Domain 2:  
Mainly user  
facing and  
applied fields**

Domain 2 is  
often shared  
with others



our 1<sup>st</sup>  
FOCUS!

JavaScript + any of Python, Java, C#, Go, Rust  
and related.

*...Topic 1:*

***Getting started  
with basic  
development  
tools for the  
course***

***VS Code IDE  
Remix  
Docker  
Git***

- 🛡️ VS Code IDE download
  - <https://code.visualstudio.com/download>
- 🛡️ Docker download
  - <https://www.docker.com/products/docker-desktop/>
- 🛡️ Git for Windows download
  - <https://git-scm.com/download/win>
- 🛡️ NodeJS
  - <https://nodejs.org/en/download/>
- 🛡️ Expo Snack (online React Native test environment)
  - <https://snack.expo.dev/>
- 🛡️ Remix IDE (an online IDE)
  - <https://remix.ethereum.org/>
- 🛡️ Hardhat
  - <https://hardhat.org/>

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🛡 Experience docker with docker-compose

– Create a lesson project:

- 1. Create a directory named *CSC202-2022set*
- 2. Open folder in VS Code
- 3. Add two files named
  - *docker-compose.yml*
  - *csc2022.env*

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# *Getting started with basic development tools for the course*

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- 4. Add the following content to *docker-compose.yml*:

*version: '3'*

*services:*

*database:*

*container\_name: postgres-csc2022*

*image: postgres:latest*

*ports:*

*- "5433:5432"*

*volumes:*

*- /Users/piusonobhayedo/data/postgres/csc2022:/data/postgres*

*env\_file:*

*- csc2022.env*



Reference for *docker-compose.yml* syntax:

<https://docs.docker.com/compose/compose-file/>

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- 5. Add the following content to *csc2022.env*:

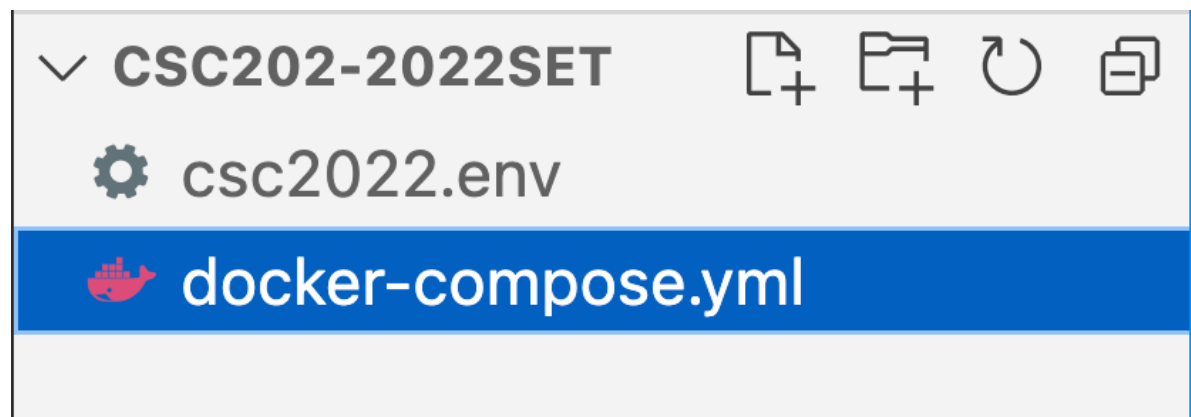
*POSTGRES\_DB=csc2022*

*POSTGRES\_USER=postgres*

*POSTGRES\_PASSWORD=postgres*



Project tree:





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- Test-run docker-compose on terminal, from the trial project directory *CSC202-2022set* by running the command:

*docker-compose up*

- You should see the startup feedback on terminal

```
bozfdle2-c2c5050 | S055-03-53 IT:28:22'203 NLC [T] F0E: q9f9p926 2l2f6w t2 le9ql to 9cc6bf connecfrouz
bozfdle2-c2c5050 | S055-03-53 IT:28:22'244 NLC [51] F0E: leqo t2 uof lednileq
dof 0
bozfdle2-c2c5050 | S055-03-53 IT:28:22'244 NLC [51] F0E: tulaftq lecolq feudfu 9f 0\J2C1050: m9ufeq 54'
om9f7c lecollel tu bloole22
bozfdle2-c2c5050 | S055-03-53 IT:28:22'245 NLC [51] F0E: q9f9p926 2l2f6w m92 uof bloblel9l 2muf qomu! 9uf
9f S055-03-53 IT:28:22'248 NLC
bozfdle2-c2c5050 | S055-03-53 IT:28:22'305 NLC [51] F0E: q9f9p926 2l2f6w m92 tufelrnbfeq! f92f kuomu nb
'be20f'2435..
bozfdle2-c2c5050 | S055-03-53 IT:28:22'304 NLC [T] F0E: f72f6u7ud ou nux 2ockef "\l9l\lnu\bozfdle2d7\2
bozfdle2-c2c5050 | S055-03-53 IT:28:22'388 NLC [T] F0E: f72f6u7ud ou t9le 9qql622 ":",' bolc 2435
bozfdle2-c2c5050 | S055-03-53 IT:28:22'388 NLC [T] F0E: f72f6u7ud ou t9le 9qql622 "0'0'0", bolc 2435
T) ou x9e"e4-bc-f7unx-dun' combifed pl dcc (d9rt9u 8'3'0-0) 8'3'0' e4-p7f
bozfdle2-c2c5050 | S055-03-53 IT:28:22'388 NLC [T] F0E: 2f9lftud bozfdle2d7 J3'3 (d9rt9u J3'3-J'bdqdt00+
bozfdle2-c2c5050 |
bozfdle2-c2c5050 | bozfdle2d7 d9f9p926 qilecfoyl 9bb926 to couf9tu 9 q9f9p926! 2k7bb7ud tuf7f9f79frou
bozfdle2-c2c5050 |
yff9cm7ud to bozfdle2-c2c5050
2f9lftud bozfdle2-c2c5050 *** qoue
(p926) b7n2ouorpu9leqo@b7n22-w9c800k-blo-5 C2C505-S05026f # qoc6eL-cowbo26 nb
```

- More explanations in class!

## ***...Topic 1:***

# ***Getting started with basic development tools for the course***

***VS Code IDE  
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- Before we use our lesson project directory for JavaScript, Git initialize it by running on terminal, from the directory:

*git init*

- To add a remote directory on GitHub:
  - 1. Login to your GitHub account online
  - 2. Create a new repository named
  - 3. Copy the URL of the remote directory for local association
  - 4. Associate with the following command, on local terminal [PLEASE use your own repository address and not mine below]:

*git remote add origin*

*<https://github.com/piosystems/csc202-2022set.git>*