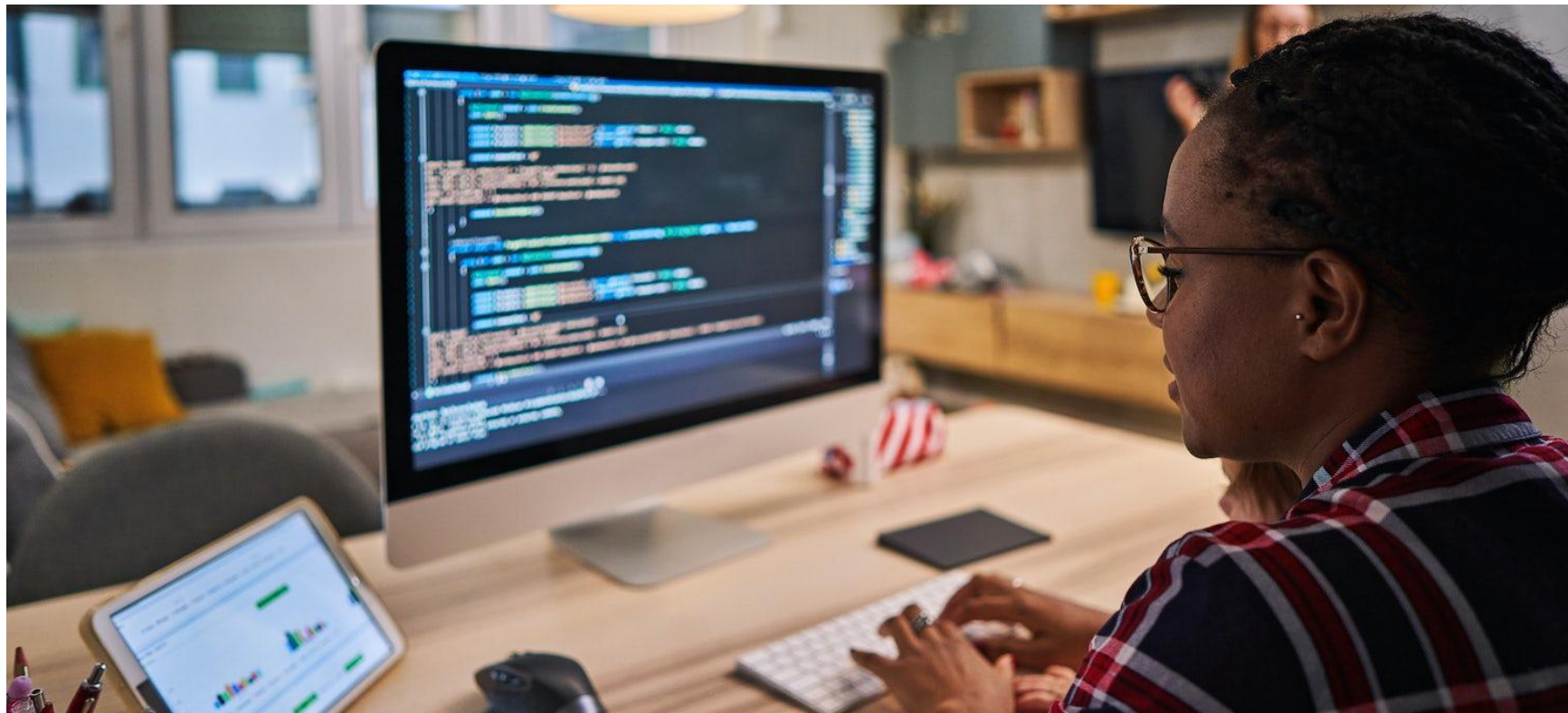


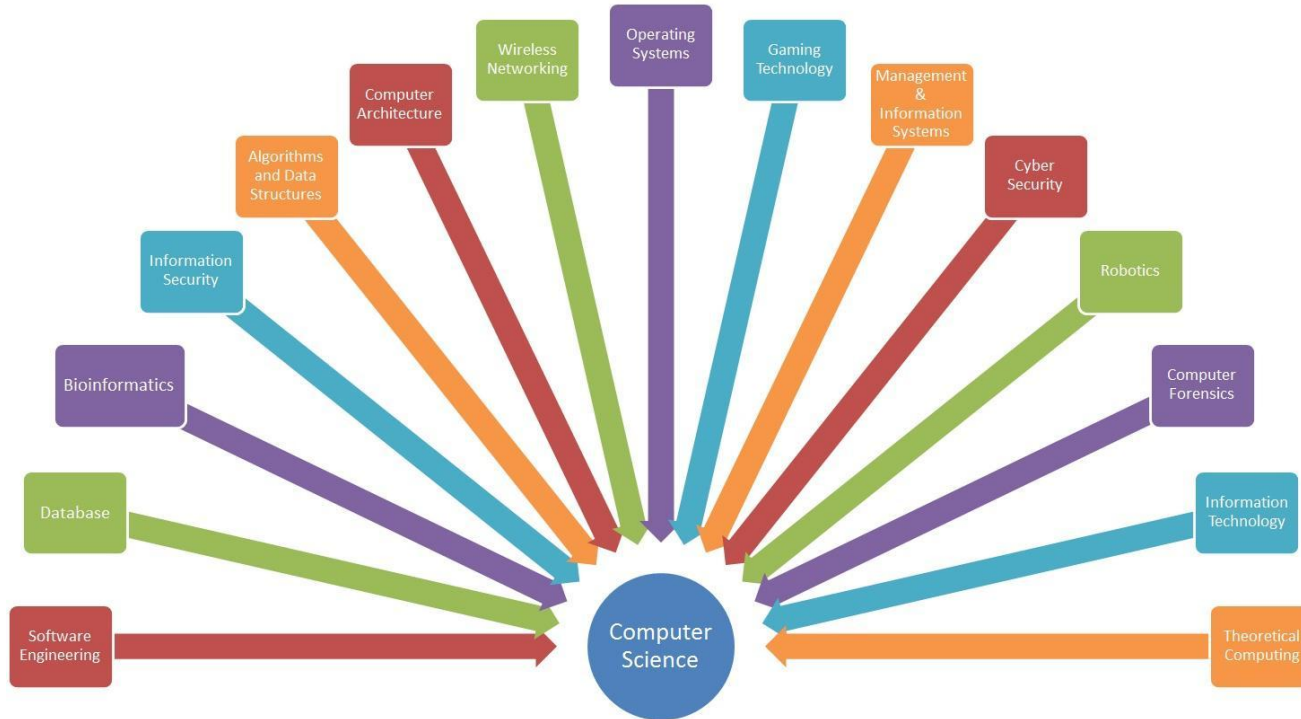
# Beyond Code in Place!

Derek, 06-01-2023

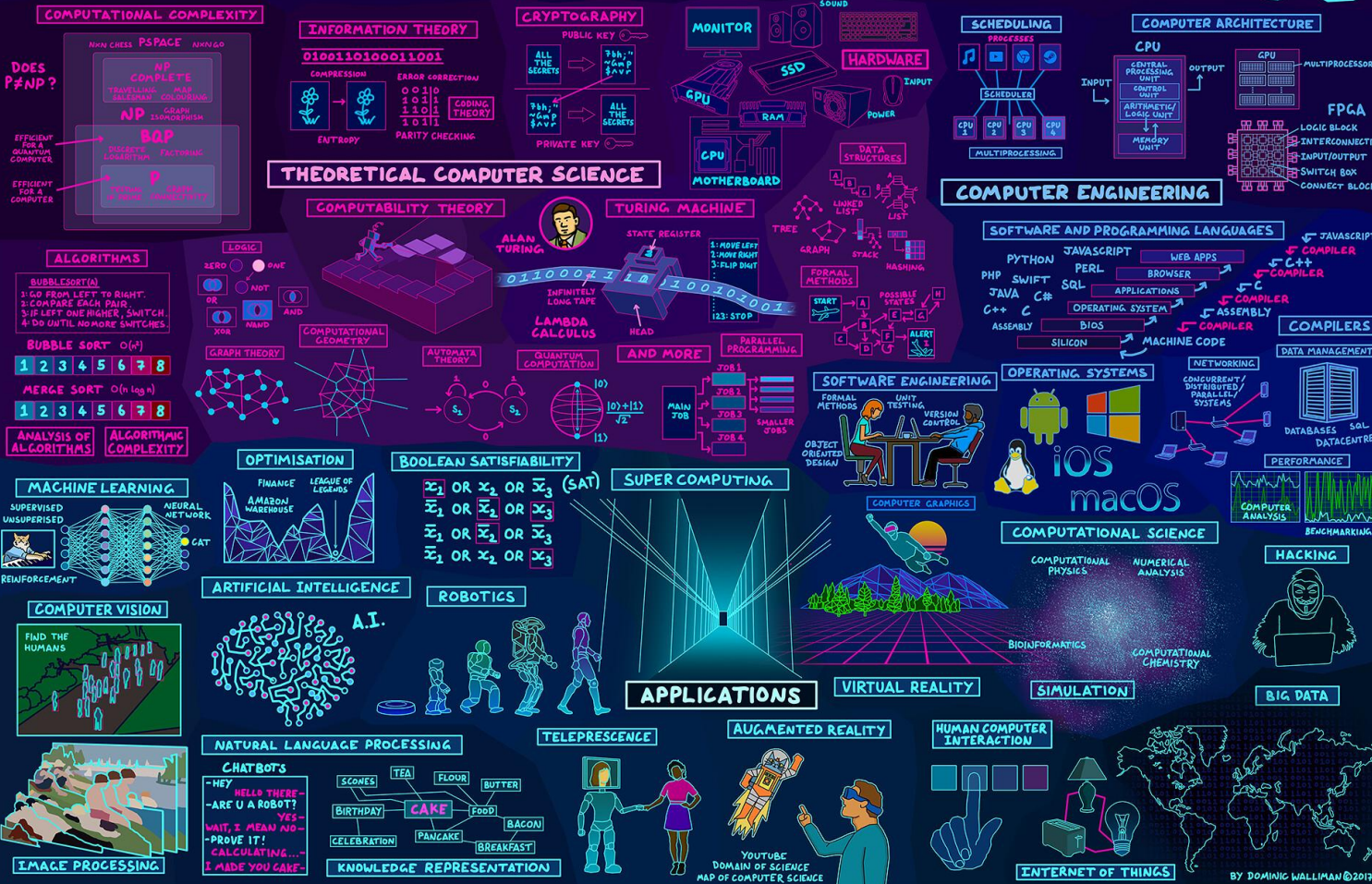
What's next? Where do I go from here?



# Computer science is **interdisciplinary**!



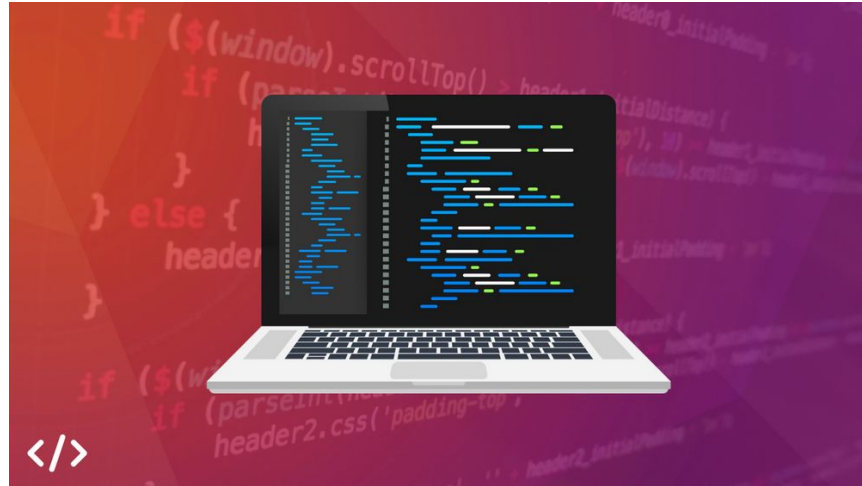




# How do I progress my skills?

The best way to keep improving and stay motivated is...

To work on projects **you're interested in!!**



By working on your passion projects, you'll stay motivated and learn new concepts

# Related topics to look into:

- Learn these skills next
- Not directly CS-related, but very useful topics to know
- Tools you'll encounter beyond Code in Place
  - Github/Git
  - Terminal/Command line
  - IDE (VSCode, Pycharm, RStudio (R), IntelliJ (Java), etc)
- Topics you'll encounter beyond CiP
  - CS-related! Object-oriented programming

# Applied computer science

Interested in...

- **Data science?**
- Website: [kaggle.com](https://www.kaggle.com)
- Python Data Science Handbook by Jake VanderPlas
- Coursera: Applied Data Science with Python Specialization (UMich)
- Github: [tidytuesday](https://github.com/tidyTuesday) Github repo

# Applied computer science

Interested in...

- **Machine learning?**
- Website: [kaggle.com](https://www.kaggle.com)
- Coursera: Andrew Ng's Machine Learning Collection
- Edx: CS50's Introduction to Artificial Intelligence with Python (Harvard's CS50AI)
- Pytorch, Tensorflow, Hugging face

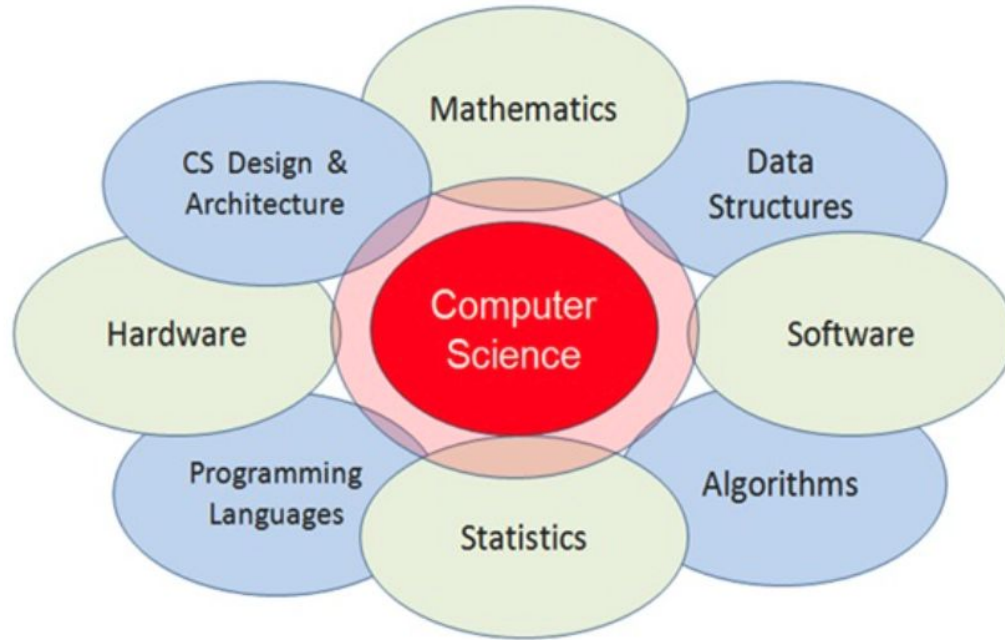


# Applied computer science

Interested in...

- **General topics?**
- Website: [automatetheboringstuff.com](https://www.automatetheboringstuff.com)
- Website: CodeWars, CodingBat (short fun puzzles)
- Edx: CS50's Introduction to Computer Science (Harvard's Classic CS50)
- MIT OpenCourseWare

# Computer science Theory



# Computer science Theory

- Data Structures!
    - Tuples, Linked lists, Stacks, Queues, Graphs, etc
  - Coursera: Python Data Structures (UMich)
  - Data Structures and Algorithms in Python by Goodrich, Tamassia, Goldwasser
- 
- Many students learn data structures in Java, but learning DS in Python is OK!

# Computer science Theory

Discrete math - Proofs/logic, Combinatorics, Probability, Graph theory

- MIT OpenCourseWare
- YouTube channels

Algorithms - big-O notation

- Coursera: Algorithms Specialization (Stanford)
- Algorithms Illuminated by Tim Roughgarden

# Thank you!!!

You all were a great cohort of CiP students!

