This is CS50





This is CS50



what ultimately matters in this course is not so much where you end up relative to your classmates but where you end up relative to yourself when you began

```
/*
  * hello.c
  * Assignment: Assignment 1
  * Name: David Malan
 * A program to print "Hello, CS50!" on the screen.
#include
          <stdio.h>
1*
 * main
 */
void
            main ()
      printf ("Hello, CS50!\n");
      exit (0);
* end of hello.c
                 -2) for hello. out, we wanted output of hello, not of make.
```

```
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            main ()
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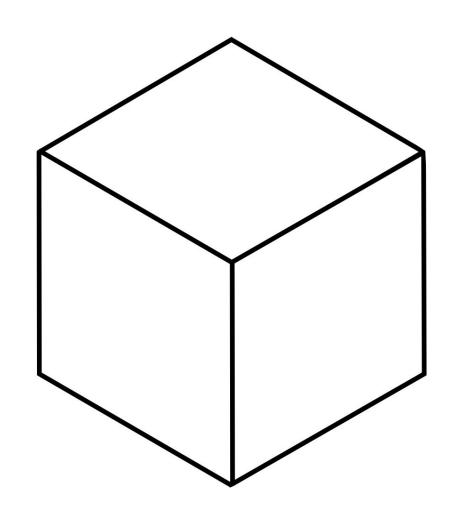


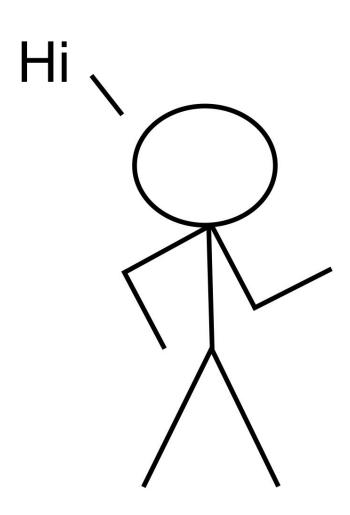
Algorithm Precise sequence of steps for getting something done, Precision! Imp't: Correctness! Process of taking an algorithm Programming: and putting it into a language a computer can process;

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Week 0 Scratch

Week 1 C

Week 2 Arrays

Week 3 Algorithms

Week 4 Memory

Week 5 Data Structures

Week 6 Python

Week 7 SQL

Week 8 HTML, CSS, JavaScript

Week 9 Flask

Week 10 The End

Final Project

you, that you solve an actual problem, that you impact campus, or that you change the world

all that we ask is that you build something of interest to

strive to create something that outlives this course

CS50 Hackathon









CS50
HACKATHON 2023













CS50 Fair











CS50 Charades



Visual Studio Code for CS50

cs50.dev

Visual Studio Code

code.visualstudio.com

Visual Studio Code

code.visualstudio.com cs50.readthedocs.io/cs50.dev

Install command-line tools

https://developer.apple.com/xcode/ https://learn.microsoft.com/en-us/windows/wsl/about

Learn Git

https://youtu.be/MJUJ4wbFm_A

Host a website

https://pages.github.com/ https://www.netlify.com/

Host a web app

https://aws.amazon.com/education/awseducate/ https://azure.microsoft.com/en-us/free/students/ https://cloud.google.com/edu/students

https://education.github.com/pack

https://www.heroku.com/ https://vercel.com/

• • •

Ask questions

https://chatgpt.com/ https://github.com/features/copilot

Ask questions

https://www.reddit.com/r/learnprogramming/

https://www.reddit.com/r/programming/

https://stackoverflow.com/

https://serverfault.com/

. . .

Read news

https://techcrunch.com/ https://news.ycombinator.com/

Take classes

https://cs50.edx.org/python

https://cs50.edx.org/r

https://cs50.edx.org/web

https://cs50.edx.org/games

https://cs50.edx.org/ai

https://cs50.edx.org/sql

https://cs50.edx.org/cybersecurity

. . .

CS50P

Functions, Variables

Conditionals

Loops

Exceptions

Libraries

Unit Tests

File I/O

Regular Expressions

Object-Oriented Programming

Et Cetera

CS50R

Representing Data
Transforming Data
Applying Functions
Tidying Data
Visualizing Data
Testing Programs
Packaging Programs

CS50W

HTML, CSS

Git

Python

Django

SQL, Models, and Migrations

JavaScript

User Interfaces

Testing, CI/CD

Scalability and Security

CS50G

Pong

Flappy Bird

Breakout

Match 3

Super Mario Bros.

Legend of Zelda

Angry Birds

Pokémon

Helicopter Game 3D

Dreadhalls

Portal

Portal Problems

CS50 AI

Search Knowledge Uncertainty

Optimization

Learning

Neural Networks

Language

CS50 SQL

Querying

Relating

Designing

Writing

Viewing

Optimizing

Scaling

CS50 Cybersecurity

Securing Accounts

Securing Data

Securing Systems

Securing Software

Preserving Privacy

Apply

Stay in touch

cs50.harvard.edu/communities

Thank you



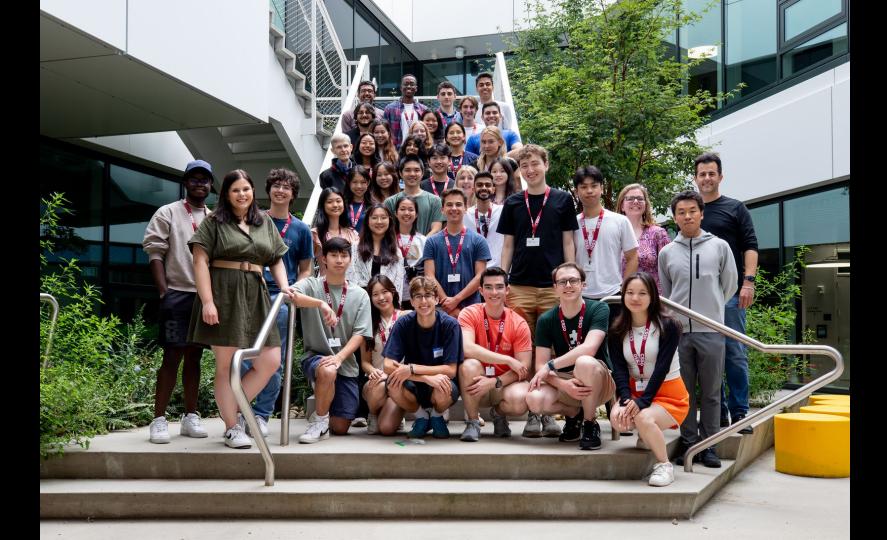
Office for the Arts at Harvard Memorial Hall / Lowell Hall Complex



Education Support Services

Faculty of Arts and Sciences Harvard University









CS50 Quiz Show





cs50.ly/poll



This was CS50



This was CS50