Welcome to CSCI-UA.0101
CS101
Introduction and motivation
Introduction to Computer Science
Our Life functions in a veritable sea of computers
What is a computer?

A Computer is a machine that can receive, store, transform and output data of all kinds.
Computer are used to Process and Store Data.

What is data?
And why is it important to store and analyze data?
You can write a computer program using a programming language that would instruct a computer to perform tasks.
Why is learning programming so important nowadays?
If you learn how to write a computer program
You Could become the next...
If you learn how to write a computer program
You will most likely have a highly paid job!
Obama: Computer science should be taught as a ‘basic skill’

By Mark Hensch

President Obama wants computer science taught as often as reading, writing and arithmetic in American schools.

“In the new economy, computer science isn’t an optional skill — it’s a basic skill, right along with the three Rs,” he said Saturday during his weekly address.
Best Jobs in America


Make up of the US labour force (thousands)

Sex
- Women: 66,205
- Men: 73,670

Ethnicity
- White: 61,650
- Hispanic: 11,046
- African American: 6,817
- Asian: 3,551

How Best Jobs were picked

For the Top 200, we focused on jobs that the Bureau of Labor Statistics projects will grow 10% or more over the next decade and that require at least a bachelor's degree. Titles with median pay below $60,000 for experienced workers were excluded.
Computer occupations dominate STEM: 2018

Source: Georgetown University Center on Education and the Workforce forecast of occupational growth, 2018.

- Computer Occupations: 51%
- Engineers & Engineering Technicians: 28%
- Life & Physical Science Occupations: 13%
- Architects, Surveyors, & Technicians: 6%
- Mathematical Science Occupations: 2%
Percentage Of New STEM Jobs By Area Through 2018

- Computing: 71%
- Computer Networking: 21%
- Software Engineering: 27%
- Computer Support: 7%
- Database Admin.: 2%
- Systems Analysis: 10%
- Other Computing: 3%
- CS/IS Research: 1%
- Life Sciences: 4%
- Mathematics: 2%
- Traditional Engineering: 16%
- Physical Sciences: 7%

By now you should be motivated to work hard in this class and learning more computer programming 😊