Introduction to Computer Science Introduction... to CS

Key to success, our Class Website

Our Class Website is

www.garfieldcs.com

- Go to there and find our "Intro to CS" tab.
- Before asking a question, check the material here, you may have the answer right there!
- If you miss a day, this is where you can find everything you need to catch up.

What Role do you want to have in Computer Science?

- Consumer pays to enjoy (consume)
 - Playing games, socializing, sharing videos, shopping, finding news & scores online.
- User uses computers & applications in their job
 - Creates documents, enters data and runs reports, designs promotional material.
- Developer develops solutions with computers
 - creating new applications, using computers to solve research problems, connecting users.

Computer Science

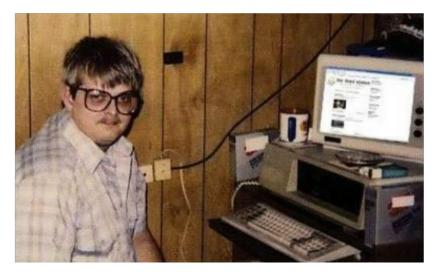
- So what Science is CS?
 - Engineering
 - Mathematics
 - o Art
 - o Magic?
- Computers are tools used to solve problems and are used practically everywhere
- CS is still a young field, especially relative to other sciences and is still defining itself
- Key is: it's about using an analytical processes to solve problems and create solutions & applications



CS myths

- Computer scientists drink Mountain Dew and eat Cheetos all day
- They have all been programming since the age of 5
- All their jobs have been outsourced





(I'm sure these guys are very nice)



What do Computer Scientists do?

- Research to make computers faster, smaller, cooler, cheaper
- Making animated flesh look real
- Inventing approaches to solve math problems
- Creating advertising platforms on the web
- Creating interactive art installations

What is your Passion?

- What do you really enjoy doing?
- If you had the time and money to do anything, what would it be?
- Do you want to travel anywhere cool?
- What kind of car would you like to drive?
- What do you enjoy doing with your friends?
- Do you enjoy making music, drawing, painting, photography, or sculpting?

Computers can help you accomplish most all of these.

Why Study Computer Science?

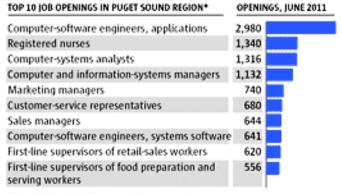
- It is used most everywhere
- It is growing further in our lives
- It can makes life easier and more fun
- It is used in all the latest cool stuff
- It helps keep us connected to our friends

 It can also help you be more secure in your future career, earning a good salary and being able to follow your passion.

There are jobs out the there...

Where the jobs are and aren't

Some employers are hiring, but the openings don't overlap much with the jobs most commonly lost to the economic downturn.

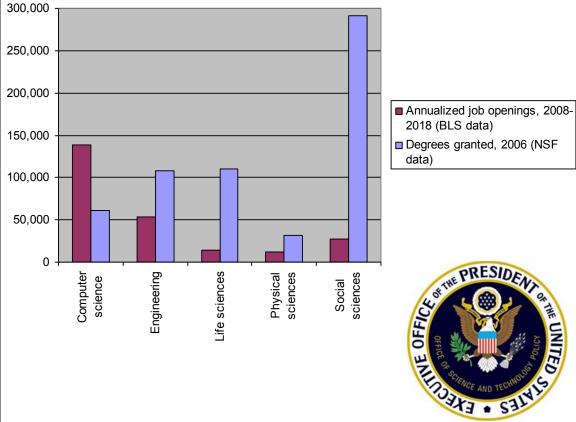


^{*} King, Snohomish, Pierce and Kitsap counties



MARK NOWLIN / THE SEATTLE TIMES

Annualized Job Openings vs. Annual Degrees Granted



From: Ed Lazowska's presentation "Why Computer Science?"

Plus CS Positions pay well...



Corporate Classroom Expectations

- This is an Occupational Education (CTE) class which includes:
 - The Goal to help students develop solid workplace skills
 - Higher expectations of professional behavior, independent effort and team cooperation
 - Leadership roles and opportunities
 - Follow our Professional Classroom
 Standards, Procedures and Garfield Rules

Our Four Professional Classroom Standards

- 1. Respect: respect and encourage fellow students, yourself, and the teacher, allowing us to benefit from all our contributions.
- 2. Safety: always act safely, follow safety procedures, and help others to act the safest; the limb you save may be your own.
- **3. Learning:** participate in the learning process by listening to, suggesting and trying out new ideas.
- **4. Teamwork:** assist other by sharing your skills cooperatively to help everyone succeed.

Computer Science Classroom Guidelines:

http://www.garfieldcs.com/wordpress/wordpress/wp-content/uploads/2012/09/Computer-Science-Classroom-Guidelines.pdf

Your Cla\$\$room Pay Check

- \$ Attendance you have to show up to work to earn your pay
- \$ Do you job focus on what is your assigned task, your classroom assignment or project.
- \$ Respect & Cooperate with your team all our class members, help each other, too!
- \$ Do your very best!

How you will be paid...

Your Grade

- \$ 35% Daily Class Work
 - \$ Web explorations, worksheets, reflections and "warm up exercises"
 - \$ Attendance, focus, collaboration, respect, leadership and participation
- \$ 40% Projects
 - \$ Applying all we learn to demonstrate new skills
 - \$ Primarily in-class, so attendance contributes.
- \$ 25% Quizzes and Tests
 - \$ Demonstrate long-term retention of essential content and application of new skills

Getting help

First please try looking on our website:

www.garfieldcs.com

- Cliche but true: no stupid question
- Ask early, ask often
- Seek help from classmates and try looking online
- I am often in class after school; ask if you want to meet
- email: embergquist@seattleschools.org