

Computer Programming 1

- with Mr. Brooks -

→ Choose any computer ←

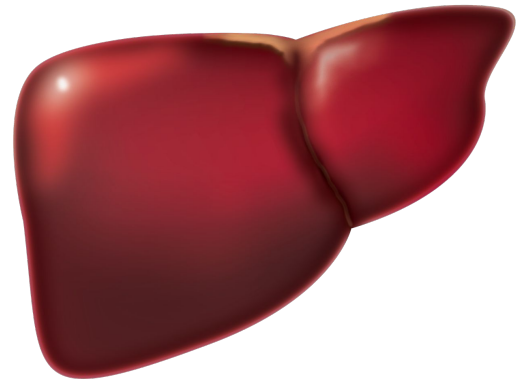
The best computers can see this screen

Please login now!

Prepare an email with subject 'BQ' to
mbrooks@alpinedistrict.org

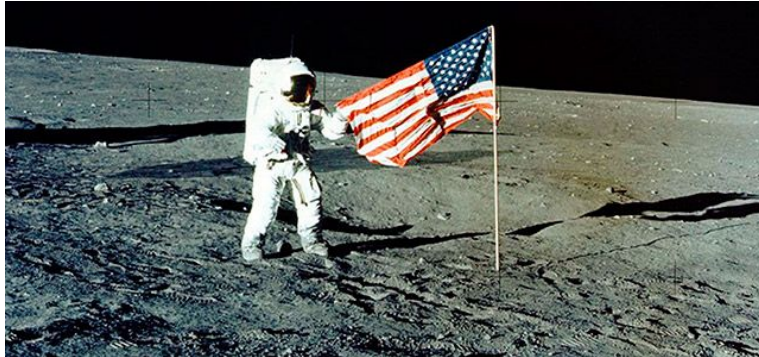
A Little about Me

- Programming for over 33 years (Novell, Symantec, Microsoft, Kinpoint, FamilySearch)
- BS degree in CS from BYU
- Writing programs is solving puzzles
- Writing programs is a creative process



A Little about Me

- My real job
- Why I'm teaching this class (6 years)
- How to contact me?
- mbrooks@alpinedistrict.org



Speedy Introductions - 30 seconds

- Preferred name & year
- Why are you taking this class?
- Do you have a Windows computer at home?
- What is something unique about you?
- Best or worst from Summer

Warning! Are you sure you want to be here???

- You will be without your cell phone for this class.
- It will be confiscated if seen during class.
- You will be without any earbuds or airpods during class.

If you cannot live without your cell phone and
music during class

» Transfer out now! «



Warning! Are you sure you want to be here???

- This class is only offered first period
- Not here after school, not here during lunch
- If you sleep through class you will fail this class
- If you don't come to class you will fail this class

» Save your grades! Transfer out now! «

 End of scare tactics 

Why Take a Computer Programming Class?

- Computer programming careers
 - Software companies
 - Gaming
 - Apps for devices
 - Web sites
 - Hollywood animations
 - Lots more
- Any line of work can benefit from knowing coding

What Kind of Programming We'll Do in This Class

- Windows desktop apps (not Windows Store apps)
- Programming in C#
- We could have used any number of other languages like:
Java, JavaScript, Kotlin, Python, C++, Swift, Objective-C ...

Class Outline

- Windows and controls
- Statements, expressions, and variables (Calculator)
- Branching (Dice Game)
- Methods/Functions (Tic-Tac-Toe)
- Looping (Loan Calculator, et.al.)
- Collections (Card Game)
- Final project

Things We'll Learn about Besides Programming

- Getting around the computer (hopefully you already know this)
- Current events
- How Computers Work
- Ethical issues around computers (including privacy)
- Career opportunities in computer programming
- How programmers do it (Software Development Lifecycle)

Housekeeping

- Disclosure Document
- Class Web Site <http://brooksprogramming.weebly.com>
- How we'll do programming assignments
- Work at home as much as possible
- Use thumb drives or online storage
- Email me to turn in assignments
- >>>**Follow Instructions**<<<
- Don't procrastinate!

Housekeeping

- Non-programming assignments
 - Current events
 - Unit worksheets
 - Binary numbers (1st term)
 - History of computers (2nd term)
 - Tests (2 per term, maybe less)
- Grading (check Skyward often!)
- Late Work/Early Work
- Presentation slides are available on the class website

Tickets and Raffles

- Tickets are earned:
 - Turn in assignment - 1 ticket
 - Turn in assignment on time - 1 ticket
 - 100% on assignment - 1 ticket
 - Extra credit on assignment - \$\$\$ tickets « **Green tickets!**
 - Current event - 1 ticket
 - Helping people - 1 ticket « **Green tickets!**
- Green - Extra credit tickets can be turned in for extra credit points
- More tickets means more chances to win prizes!!!

Extra Credit

- Earn extra credit now – Save it for when you need it!
- Helping another person (10 points each)
- Extra learning on every assignment (10 – 30 points)
- Extra current events (10 points each)
- Bonus questions on the tests (20 – 30 points per test)
- Watch "General Magic" (50 points)
- Watch "Social Dilemma" (50 points)

A Few Class Rules

- Seating assignments
- Food and drink
- Game playing
- Distractions
- Bringing your own computer
- Listening to music
- Cell Phones - When the bell rings, put away/out of sight
- Cheating

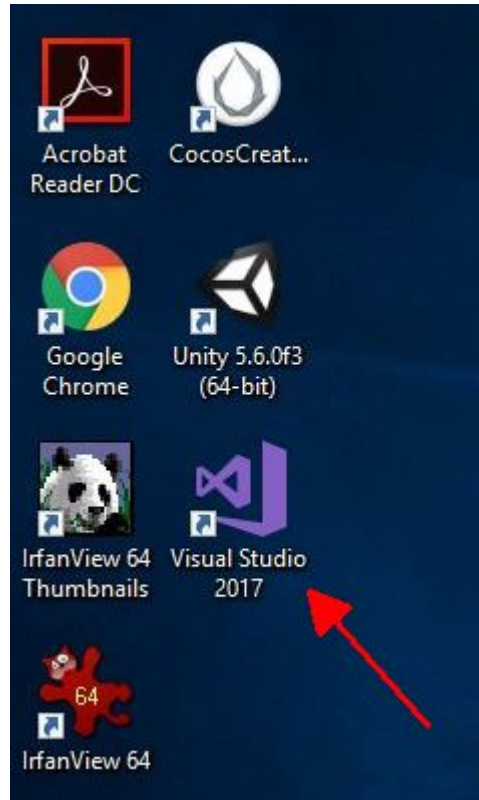
1st Bonus Question

- Create an email to **mbrooks@alpinedistrict.org**
- Put “**BQ** - “ in the subject
- Put your answer after BQ in the subject
- First email to arrive with the correct answer wins a ticket!
- Ready???
- What is the name of the first company I worked for?

2nd Bonus Question

- Create an email to **mbrooks@alpinedistrict.org**
- Put “**BQ** - “ in the subject
- Put your answer after BQ in the subject
- Ready???
- What programming language will we use?

Start Visual Studio 2017



Press the Windows
Key then type
Visual

Look for this icon

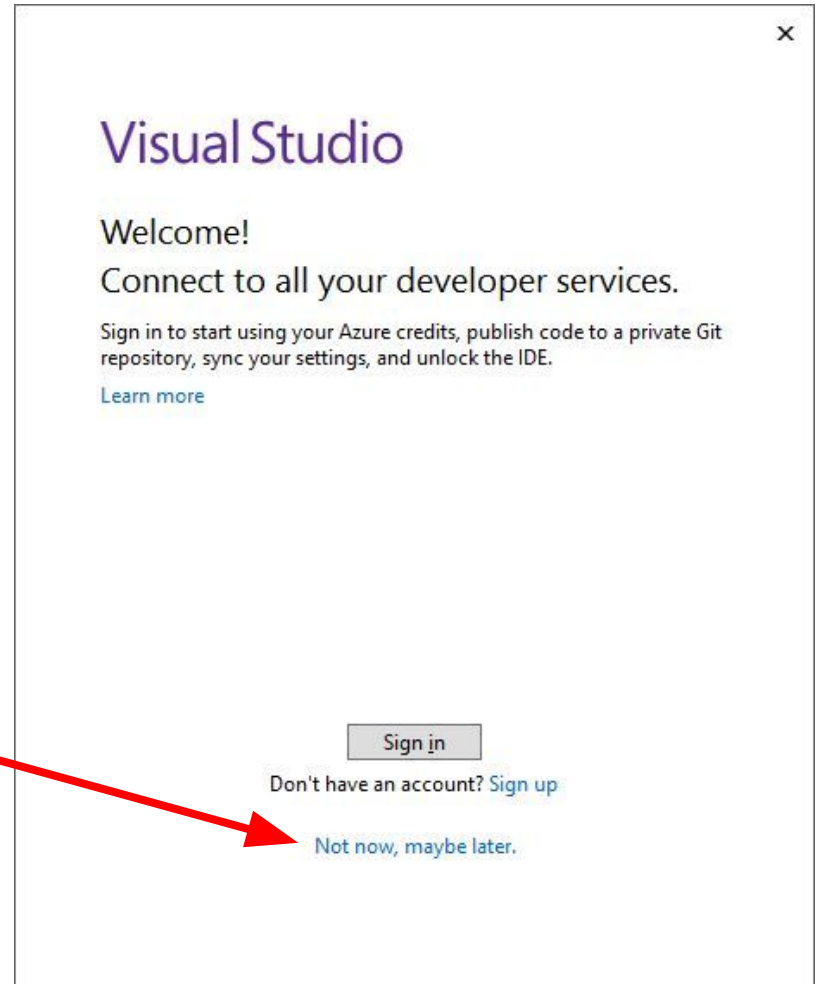


Visual Studio Startup

The image shows the top-left corner of the Visual Studio application window. It features the Visual Studio logo, which is a white icon of a stylized 'V' with a diamond shape inside, set against a dark gray background. To the right of the logo, the text 'Visual Studio' is displayed in a white, sans-serif font. A small, dark gray triangle is visible on the left edge of the window, indicating the start of the sidebar.

Visual Studio Sign In

Click 'Not now, maybe later'



Visual Studio Environment

Development Settings

Make sure to choose Visual C#

You may choose any color theme you like.



Preparing for First Use

Visual Studio

We're preparing for first use

This may take a few minutes.



Let's Start Programming!

https://www.youtube.com/watch?v=_fGujzulsas

(Start the video after everyone is waiting)

Your First Program!

Draw A House