Computer Programming 1
- with Mr. Brooks -

→ Choose any computer ←

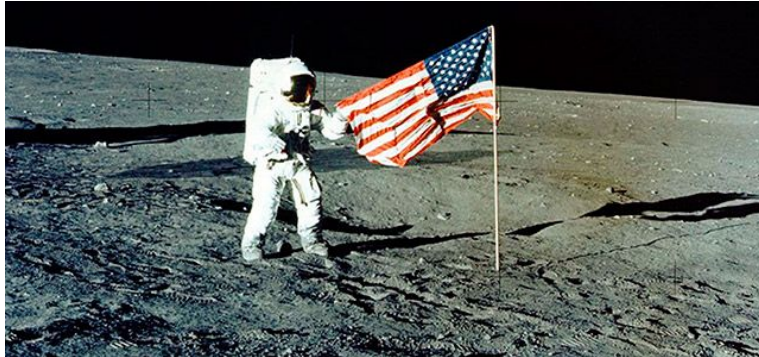The best computers can see this screen

Please login now!

Send an email with subject BQ to
mbrooks@alpinedistrict.org

A Little about Me

- Programming for over 30 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
- How to contact me?
- mbrooks@alpinedistrict.org

Speedy Introductions

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

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

– 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 writing programs

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 and/or online storage
- Email me to turn in assignments

  >>>**Delete bin and obj folders**<<<
- 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, send me an email

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!!!

A Few Class Rules

- Seating assignments
- Food and drink
- Game playing
- Distractions
- Bringing your own computer
- Listening to music
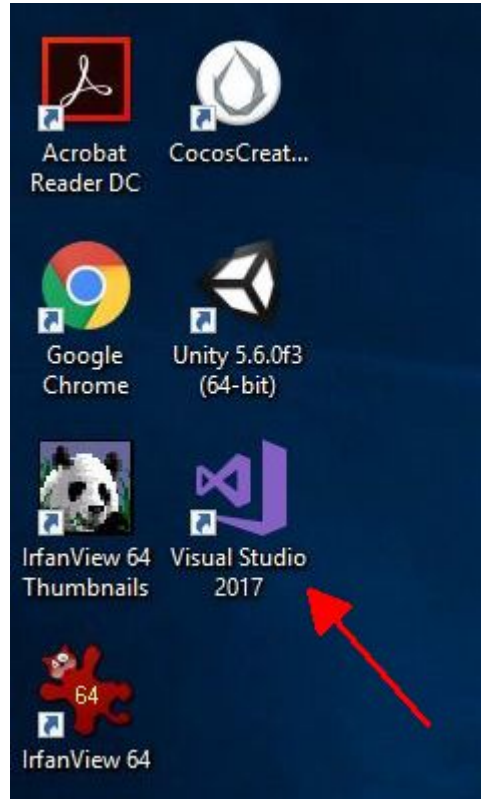- Cellphones
- Cheating

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 first company I worked for?

- 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 programming language will we use?

Let's Start Programming!

https://www.youtube.com/watch?v=VcyCWEsbsPU
(Start the video after everyone is waiting)

Start Visual Studio 2017

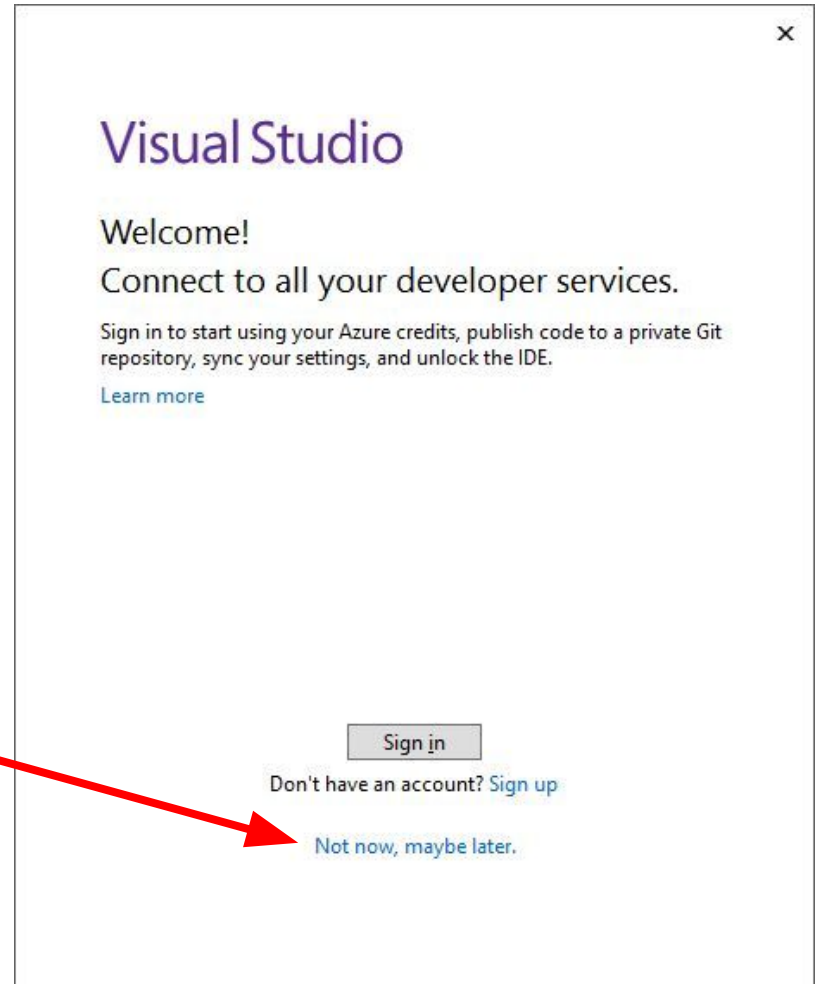Press the Windows Key then type **<u>Visual</u>**

Look for this icon

↤

Visual Studio Startup

Visual Studio Sign In

Click 'Not now, maybe later'

×

Visual Studio

Welcome!
Connect to all your developer services.

Sign in to start using your Azure credits, publish code to a private Git repository, sync your settings, and unlock the IDE.

Learn more

Sign in

Don't have an account? Sign up

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.

. . .   .

Your First Program!

[Draw A House](#)