**GWC** Level 3 Programming with C# and **Game Design** with Unity Week 1 Katie Tooher and Carmen Seda

### **Instructor Introductions**

- Katie Tooher
- Junior in Computer Science
- Likes: Skiing, hiking, video games, reading

- Carmen Seda
- Junior in Computer Engineering
- Likes: video games, coding, bingeing TV

### **Your Turn**

• Partner up with the person next to you

• Share 3 things about yourself with your partner

• Your partner will share one of your facts with the class about what the learned about you!

### **About Girls Who Code**

- Founded in 2012 by Reshma Saujani, a US Lawyer and Politician
  - First Indian-American and South Asian American woman to run for US Congress
  - Wrote 3 books
    - Women Who Don't Wait In Line
    - Girls Who Code: Learn to Code and Change the World
    - Brave, Not Perfect
- Mission: to close the gender gap in technology industries (by 2027)



### **Expectations**

Be respectful...

- Keep laptops closed while an instructor is presenting
- Place phones in basket at beginning of class
- Do not interrupt when others are speaking

Create a positive learning environment...

- Mistakes are expected while learning and they help you to grow
  - Don't get discouraged!
- Help your peers when they need it, and don't be afraid to ask for help
- Don't make people feel bad if their code doesn't work
- Don't give up before you try

### **Installing VS Code**

- Pull out your laptops!
- Go to the following website:
  - o code.visualstudio.com/download
- Choose the proper downloader for your operating system



Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



### **Installing VS Code**

- Once you click the download it will save a .exe file
- Click the file and then press run and then accept the terms and conditions
- Choose where you want the program to be saved
- Check box to "Create Desktop Icon"
- Check box to "Add 'Open with Code' action to Windows Explorer file context menu"
- Click Install

### **Installing .Net Core SDK**

- In order to run c# programs we need an extra package on our computers. The Dotnet framework installs a specific compiler that is used to run c# programs
- Go To: <u>https://dotnet.microsoft.com/download</u>
- Again Make sure you are in the correct tab for your system: MAC/Windows
- Click the download for the "Build Apps" .net download



⑦ Not sure where to start? See the Hello World in 10 minutes tutorial to install .NET and build your first app.

Windows

Linux

macOS

Docker



#### .NET Core 2.2

.NET Core is a cross-platform version of .NET for building websites, services, and console apps.

O Using Visual Studio for Mac? Make sure you have a <u>compatible version</u>.

## Adding C# and .NET Core to VS Code

- IF YOU HAVE MAC you need to do a few extra things....
- Press command + space and type in terminal
- Then run this command to download a software that aids other software installation -- "homebrew"

/usr/bin/ruby -e "\$(curl-fsSLhttps://raw.githubusercontent.com/Homebrew/install/master/install)"

• Then once that is done installing run these 3 commands brew install openssl

In -s /usr/local/opt/openssl/lib/libcrypto.1.0.0.dylib /usr/local/lib/

In -s /usr/local/opt/openssl/lib/libssl.1.0.0.dylib /usr/local/lib/

## **Hello World Program**

- Once You've downloaded Visual Studio and .Net Core SDK (software development kit) create a new folder in your documents folder where you will save all your c# code.
- Open that folder in VS Code
- Then run the following commands in the terminal:

### Terminal

### ~\$ dotnet new console -o myApp ~\$ cd myApp

# **Hello World Program**

• These commands will have created a new folder for your code. Next run this command to test your code!

Terminal

~\$ dotnet run

• If it worked you will look something like this!

(base) pcp092717pcs:example katietooher\$ cd myApp/ (base) pcp092717pcs:myApp katietooher\$ dotnet run Hello World! (base) pcp092717pcs:myApp katietooher\$

### **Take-Aways from Today**

• We went over classroom expectations

• Met our Peers

• Downloaded and set up our IDE for learning C# and ran our first program -next week we will go over this code and begin applying and learning c# concepts