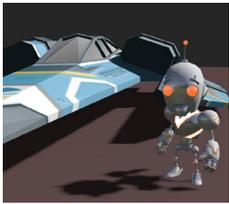# Coding with Kids
# 2018 Summer Camps

### Little Coders
Created specifically for kids 5-7, this camp develops computational thinking skills and fosters creativity in a fun environment! We use a blend of connected and "unplugged" activities designed to keep young campers engaged. Kids will create their own interactive story or computer game!

**Ages 5-7**

### Scratch Game Development I
Start your coding journey by creating your own game! Campers will take the first step on the Coder's Ladder, learning computer programming fundamentals and designing and coding their own first computer programs. Projects will include interactive stories and computer games!

**Ages 8-11**

### 3D Game Development
Take your game design into the third dimension. Campers will learn the ins and outs of 3D games with scene design, camera placement, asset creation, sprite scripting, and more as they create 3D games playable in any web browser!

**Ages 13-18**

### Scratch Game Development II
Ready to take your game development skills to the next level? Campers will build on their current coding skills and learn how to create more challenging projects with fun features, such as AI (artificial intelligence), game physics, or multiplayer functionality!

**Ages 8-13**
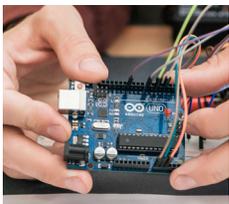
### Minecraft Modding (9-12yr)
Building mods is a fun way for Minecraft players to learn and practice programming! Each camper will have access to their own Minecraft server where they can customize their Minecraft experience with drag & drop code, landscapes, texture packs, and more!

**Ages 9-12**

### Minecraft Modding - Java (12-18yr)
Build advanced Minecraft mods with Java programming. Campers will learn the fundamentals of Java as they use it to customize the world of Minecraft. Learn how to give items special powers, create new game modes, and modify the layout of your world.
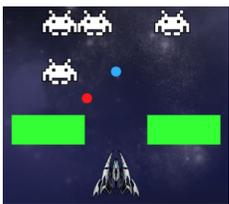
**Ages 12-18**

### Robotics Engineering with Arduino
Explore the world of electronics by building and programing your first robot! Campers will learn how to build an Arduino-powered wheeled robot and use the C++ programming language to make your own autonomous vehicle.

**Ages 11-18**

### Software Engineering with Micro:bit
Take your first step into the exciting world of computer hardware programming with micro:bit. Through a variety of projects campers will learn how to create a digital compass, simple games, or get two micro:bits to talk to each other.

**Ages 8-13**
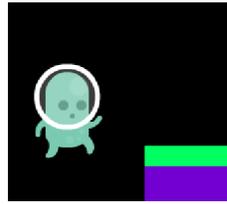
### Build & Program Circuits with Arduino
Connect the digital and physical worlds! Use an Arduino microcontroller and the C++ programming language to control anything from LED lights to distance sensors. Campers will connect multiple circuits to create complex tools you can use everyday.

**Ages 11-18**

### Android App Development
Develop your own mobile app! Campers will create Android applications like games, soundboards, and music players using an intuitive, visual programming environment that allows anyone to build fully functional apps for smartphones and tablets.

**Ages 9-14**

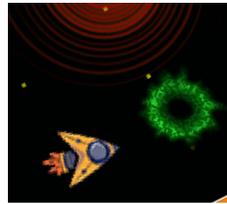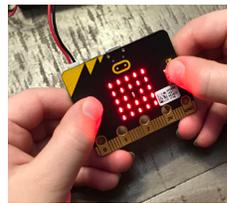### Python - Game Development (10-13yr)
Learning Python is the perfect way to get a glimpse into the world of professional programming. Campers will learn the fundamentals of Python programming through creating fun games which they can share with their friends!

**Ages 10-13**

### Python - Games and More (12-18yr)
Python is a very versatile tool and can be used for everything from game development to powering applications at NASA. Campers will begin to explore the multiple facets of the language as they create games, analyze data sets, and learn the basics of AI.

**Ages 12-18**

## Learn More and Register at www.CodingWithKids.com/Seattle-Camps