

# HOUR OF CODE

**\*\* These Tutorials will require use of headphones for parts, if not all, of the lessons \*\***

## **Tutorials for beginners**

(Game based and made to be fun. If you don't have any experience, start here!)

### **Write Your Own Computer Program**

Learn the basic concepts of Computer Science with drag and drop programming. This is a game-like, self-directed tutorial starring video lectures by Bill Gates, Mark Zuckerberg, Angry Birds and Plants vs. Zombies. Learn repeat-loops, conditionals, and basic algorithms.

### **Code with Anna and Elsa**

Let's use code to join Anna and Elsa as they explore the magic and beauty of ice. You will create snowflakes and patterns as you ice-skate and make a winter wonderland that you can then share with your friends!

### **Build Your Own Game: Tynker**

A collection of 8 fun activities for children of all ages to try programming. Solve a series of simple puzzles to help Pixel the puppy reach home, and Biff the spaceman reach his moon base. Build the Space Zombies game or create Math Art using our fun and easy visual approach to programming.

### **Scratch (a smidge more advanced than the above three options)**

With Scratch, you can code your own interactive games, stories, animations, and more. In this activity, you'll create an interactive holiday card that you can share with friends and family.

## **Learning Javascript**

(Not recommended for beginners unless you are up for a challenge)

### **KhanAcademy**

Learn the basics of JavaScript programming while creating fun drawings with your code

### **Code Avengers**

Build a 2 player 2D top-down game with JavaScript in 10 short tasks. Then continue learning some basics of programming (variables and if statements) as you create a Quiz to share with friends. Along the way earn points and badges as you compete to reach the top of the class leaderboard.

## **Other programming languages**

(If you are ready to seriously learn something new. More advanced users).

### **Robomind Academy**

Students learn the basics of programming by controlling their own virtual robot. The online course is fully self-contained with short presentations, movies, quizzes and automatic guidance/hints to help with the programming exercises.