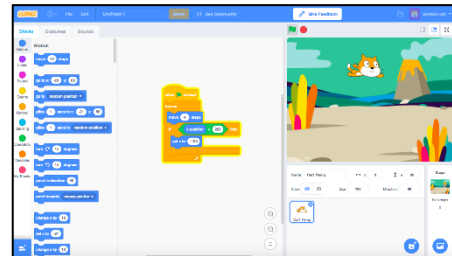




Overview

Sequencing in Scratch

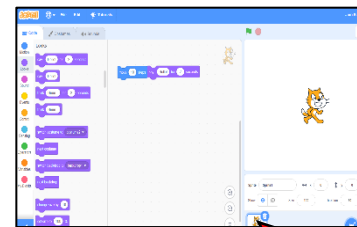
- Programming is when we make a set of instructions for computers to follow.
- Scratch is a program that we can use in order to code our own stories and animations.
- We use algorithms (a set of instructions to perform a task) to sequence movements, actions and sounds in order to program effective animations.



The Basics of Scratch

- **What is Scratch?** Scratch is a website/ app that lets us code our own stories, games and animations.

- Scratch helps us to learn how to use programming language, whilst also being creative and using problem-solving skills.

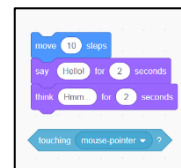


There are three main areas in Scratch:

- The Blocks Palette (on the left) contain all of the different blocks: puzzle piece commands which control the animation.

- Code Area (in the middle) is where the blocks are placed to create a program.

- Stage with Sprite (right) is where the output of the program is presented. The sprite is the character.



Adding/Removing Sprites: This can be done here, at the bottom of the stage. There are many sprites to choose from.

Attributes: There are three attributes of the sprite which we can change to make our animation: Code, Costumes, Sounds.

- **Backdrops:** Backdrops can be added by clicking on this icon (bottom right of the screen, below the stage).



Sequencing and Algorithms

- A **sequence** is a pattern or process in which one thing follows another.

- In Scratch, blocks can stack vertically on top of one another to create sequences.

- **Event blocks** are used to start sequences. They are orange and have a curved shape at the top.



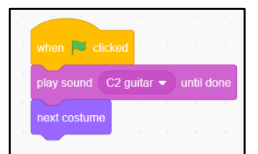
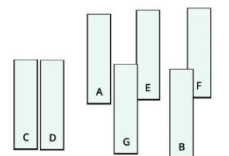
- Designing an **algorithm** (set of instructions for performing a task) will help you to program the sequence that you require.

Making Music

- Several sprites, each following connected sound sequences, can create music!

- In order to do this, you will need to **carefully plan your algorithm**.

- If your animation does not work correctly the first time, remember to **debug** it.



Important Vocabulary

Programming Scratch Blocks Code Sprite Costume Stage Backdrop Motion Point in direction Go to Event Task Run the code Order Note Chord Bug