

Lesson 1:

Code a conversation & Teleport Agent



WHAT WE'LL LEARN

To play Minecraft: Education Edition

To use block programming in Microsoft MakeCode

To change your Minecraft world through coding

WHAT IS MINECRAFT?

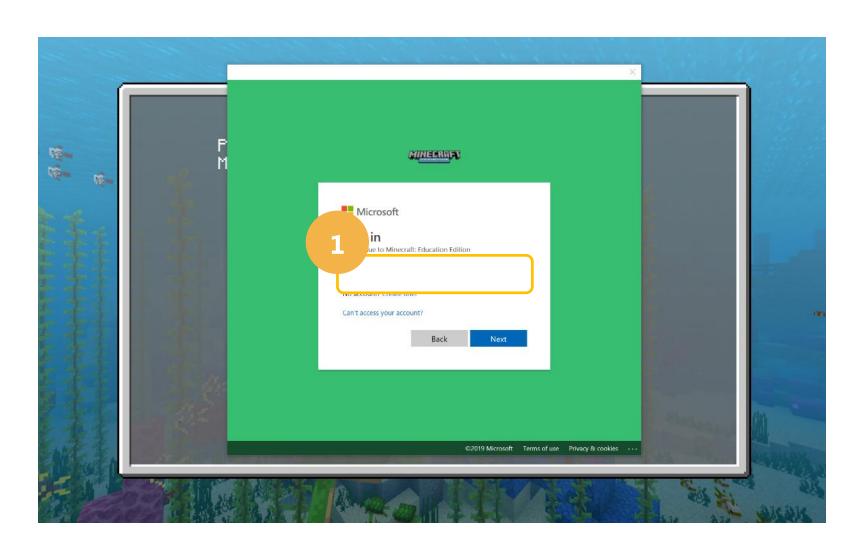
A game about:

- Placing blocks
- Building anything you can imagine
- Going on grand expeditions

Let's explore!



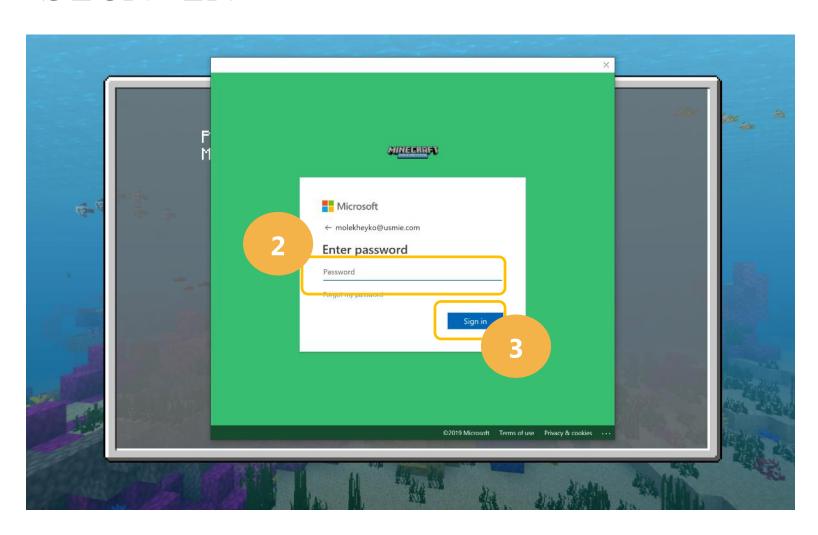
SIGN IN





Enter your login

SIGN IN





Enter your password



Click Sign in

SETTINGS



The name of your character



Select

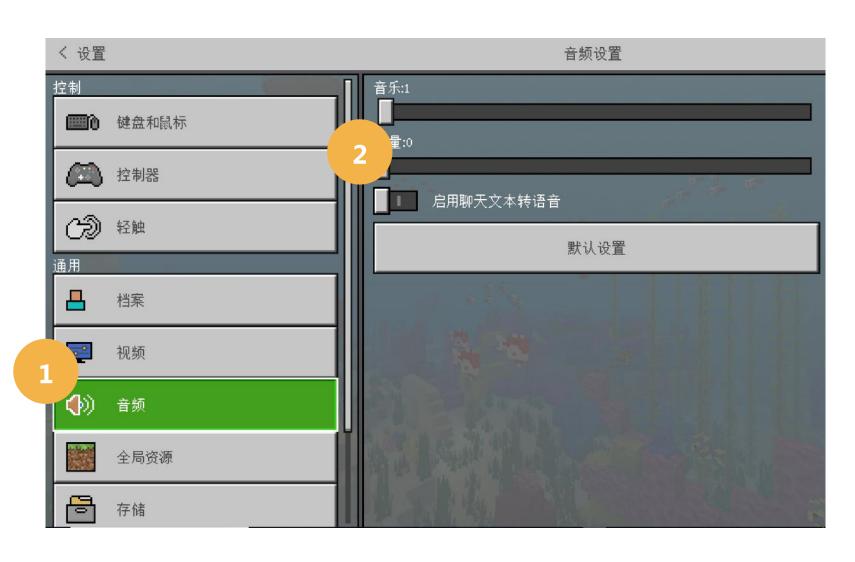
to change your

appearance



Click Settings when you are ready

CHECK YOUR SOUND SETTINGS



1

Select audio settings



Ensure that your sound volume is 0





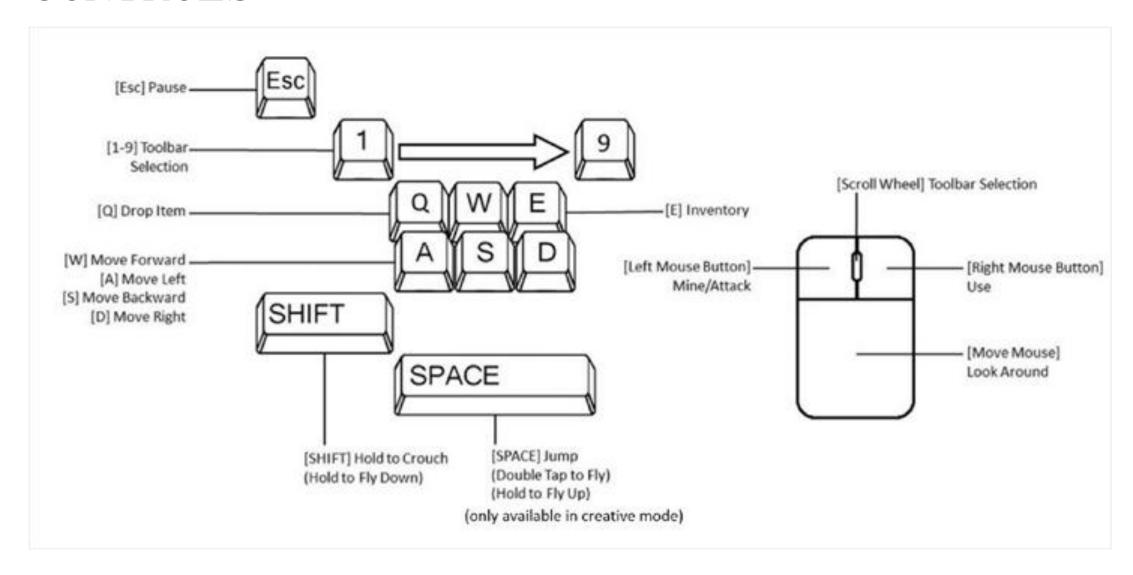
SELECT THE WORLD



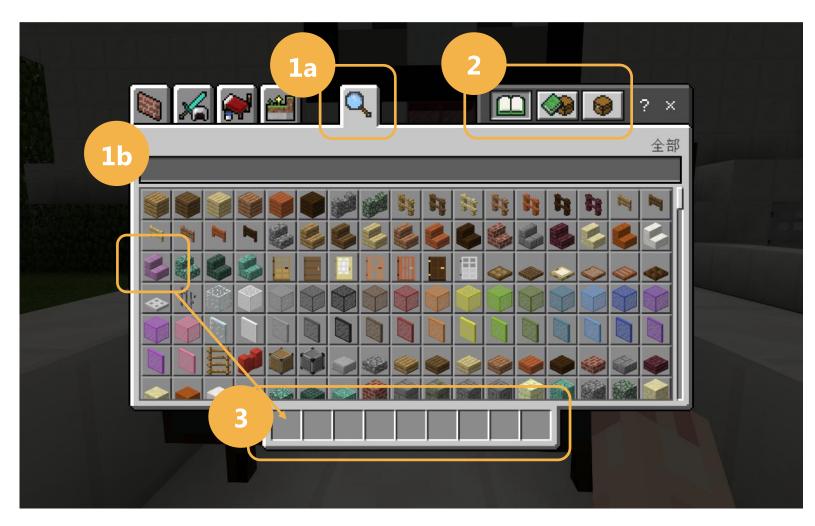


Select the world 'Lesson 1'

CONTROLS



INVENTORY



Search using type an item your are looking

Place an item into the hotbar

YOUR TURN TO PLAY

Use keyboard and mouse controls

Look and move around

Play with your inventory

Build and mine

LET'S DISCUSS



How do you use your mouse so your player can look around?

What are two keyboard controls to move your player?

Do you like using mouse or keyboard controls better?

What's one thing you discovered while playing?

LET' S TALK CODING

Code or a computer program gives instructions to a computer to do something.

A computer can be a laptop, tablet, smart phone, TV, robot, and more.

If you were going to code a computer to make an egg and tomato dish, you'd break down the task into specific steps in a specific order, which is an algorithm.



A CODING MINDSET

Learning something new can be hard

Be curious if you get frustrated

Be persistent and keep trying

After you try to figure it out, ask others for help

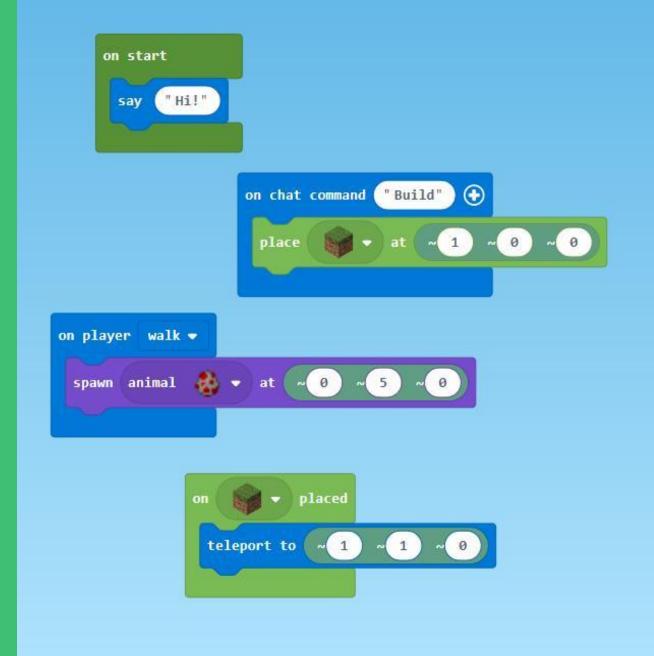
Learn from mistakes



CODING WITH MICROSOFT MAKECODE

Part of the Code Connection app Code in blocks or JavaScript

Let's try it out!



ACCESS MAKECODE



Press "C"



Click on Microsoft MakeCode

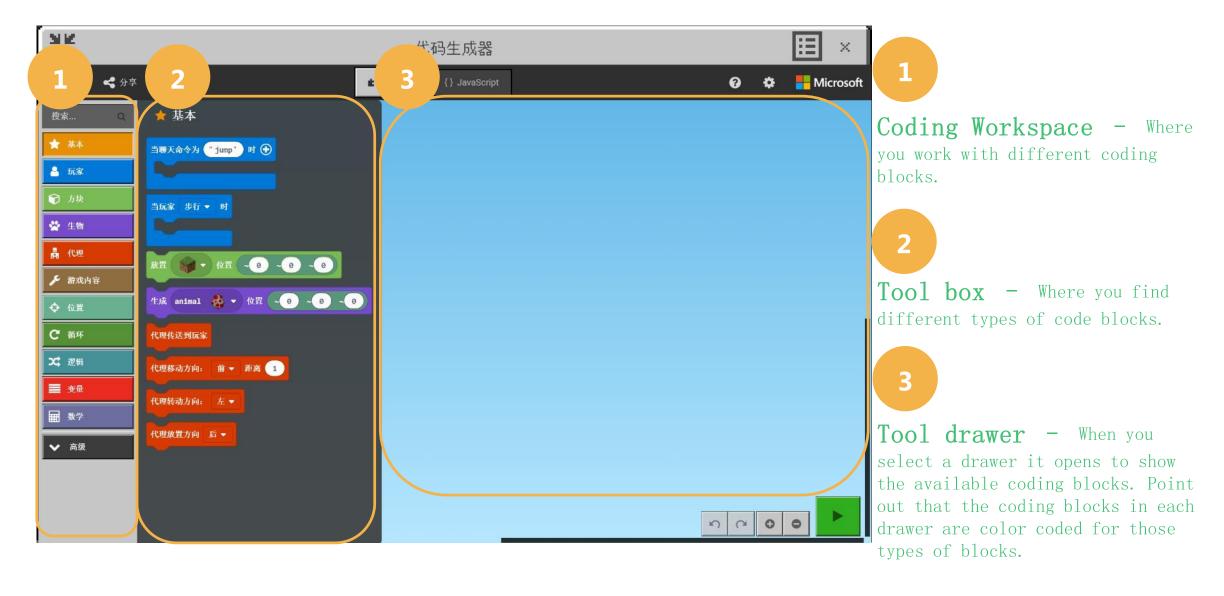
ACCESS MAKECODE





Click on "New Project"

MAKECODE INTERFACE



MAKECODE INTERFACE



Include a walkthrough video about makecode (just like on the website)

CODING WITH CHAT COMMANDS

The PLAYER drawer has coding blocks that work in direct response to your actions

on chat command

An runs code when you type the command in the chat field of Minecraft



LET' S MEET YOUR AGENT

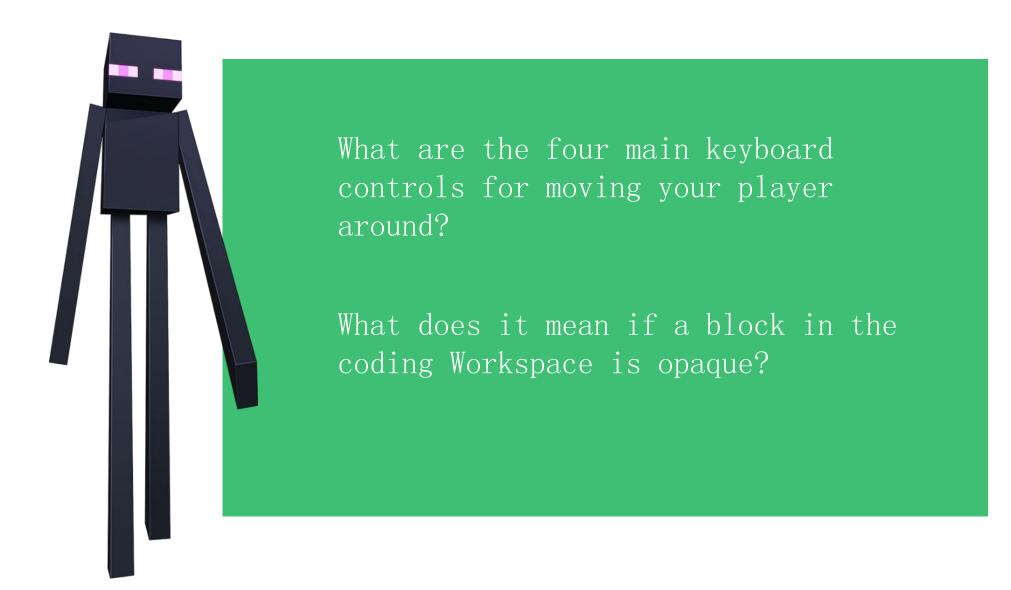
It's a Non-Player Character (NPC) assistant in the game to help you do things, like build, farm, and much more.

It appears when you teleport it to your player.

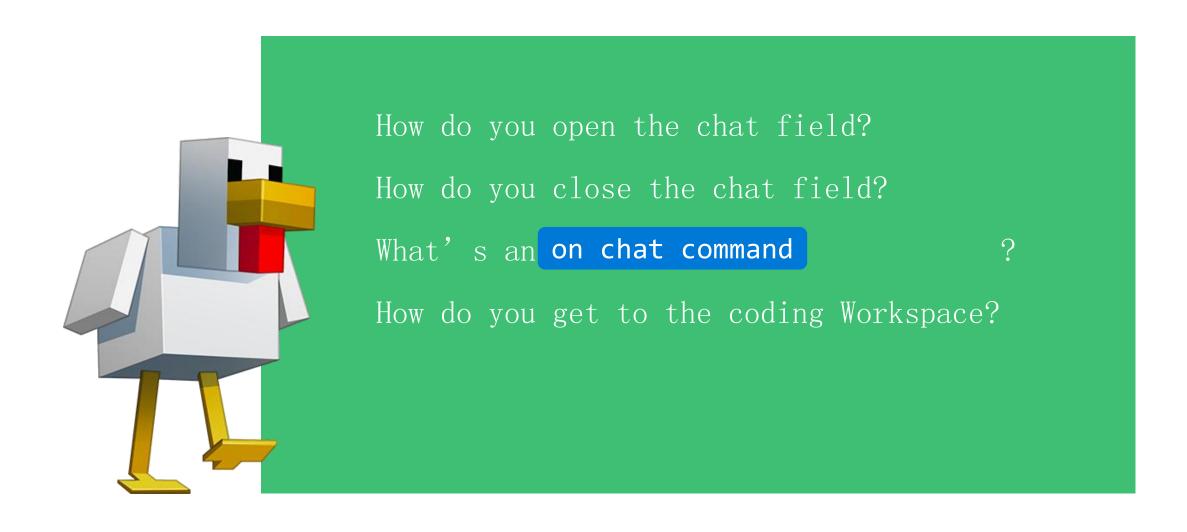
The AGENT drawer has coding blocks relating to it.



LET'S DISCUSS



LET'S DISCUSS



Lesson A

Let's review

What did you learn today that you didn't know before?

What was most challenging?

What questions do you have?



NEXT TIME

Code with other blocks in the AGENT drawer