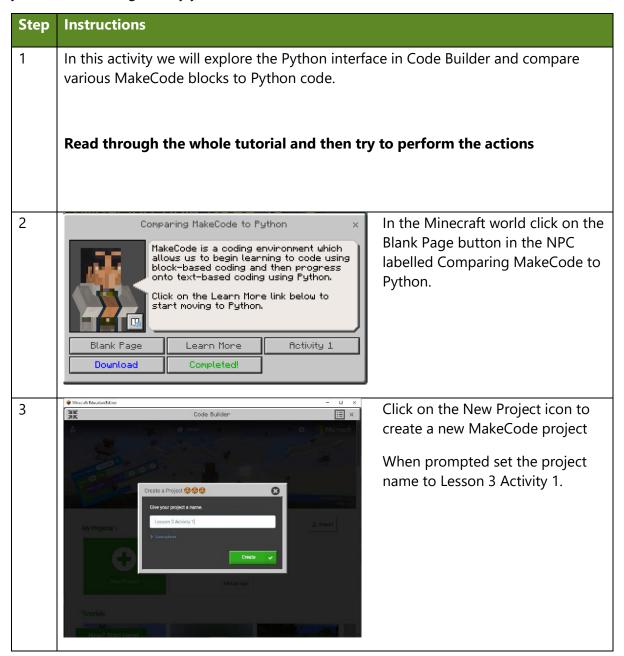




Coding in Minecraft – Advanced Coding Using Python Lesson 3 – Python – Comparing MakeCode to Python Activity

Instructions

This worksheet is copy of the steps detailed in the Activity in the game to make it easier for you to follow along and try yourself.









The default block-based coding editor with the default on chat command "run" block and on start block will appear.

Change the event handler to respond to the command sayHello by changing the text run to sayHello



Click on the Convert code to Python button (you may need to click on the down arrow to change from JavaScript to Python) to display the code in Python.

6 Notice there are 3 lines of code.

The first line of code starts with def on_chat - this is creating a function called on_chat.

0000

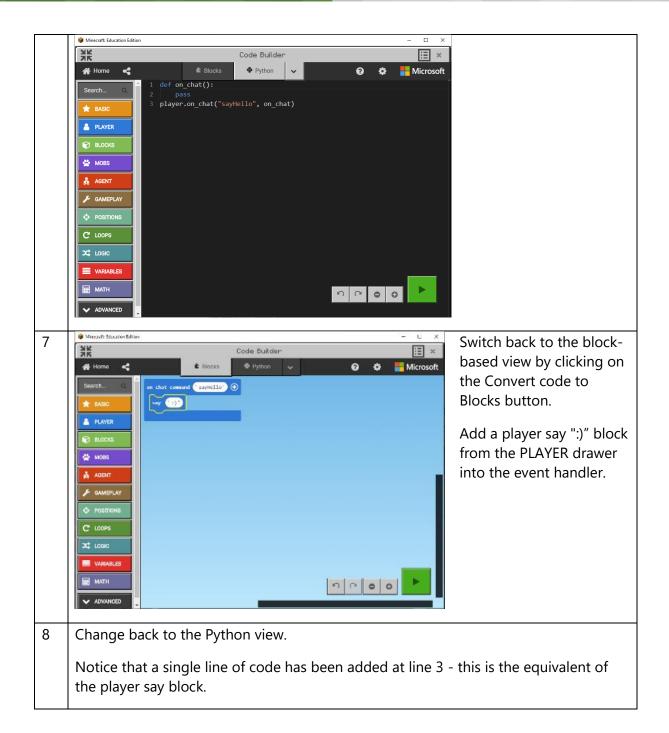
The 2nd line of code is indented - this means that the line of code is part of the function on_chat. The line of code pass does nothing - pass is like a placeholder which you replace with code later.

The 3rd line of code is setting the function on_chat as an event handler for the event on_chat of the player when the chat words are sayHello.

The first part within the brackets specifies the chat command to respond to and the second command specifies which function to run when that chat command is entered. when we build up what we want to happen when sayHello is issued.

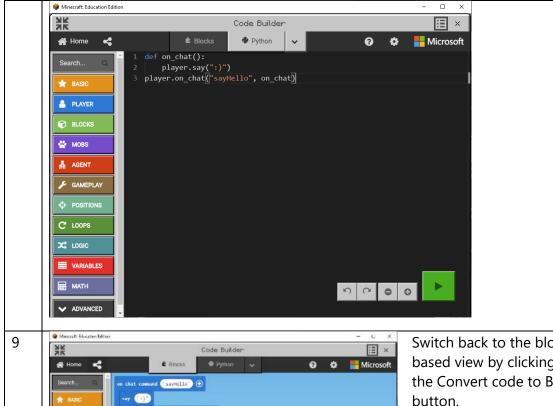












teleport to ~ 0 ~ 10 ~ 0

Switch back to the blockbased view by clicking on the Convert code to Blocks button.

Add a player teleport to ~0 ~0 ~0 block from the PLAYER drawer into the event handler and change the Y coordinate to 10

10 Change back to the Python view.

> Notice that a single line of code has been added at line 3 - this is the equivalent of the ``||player: teleport to ~0 ~0 ~0 ||`` block.

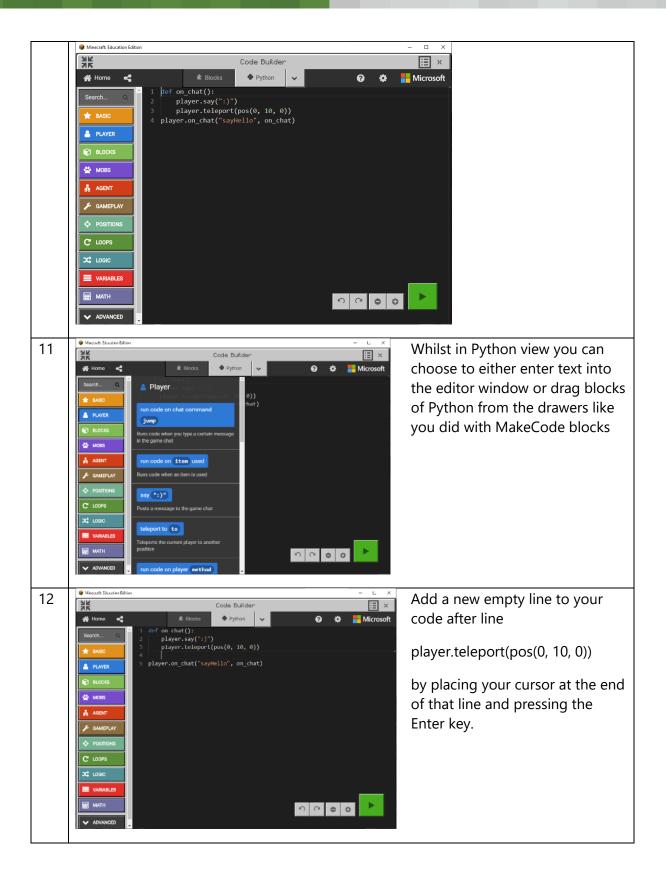
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Again the teleport block came from the player drawer so the code starts with the word player and we want the player to be teleported therefore the teleport function is called.

This function takes a parameter - where to be teleported to. This parameter is a coordinate.

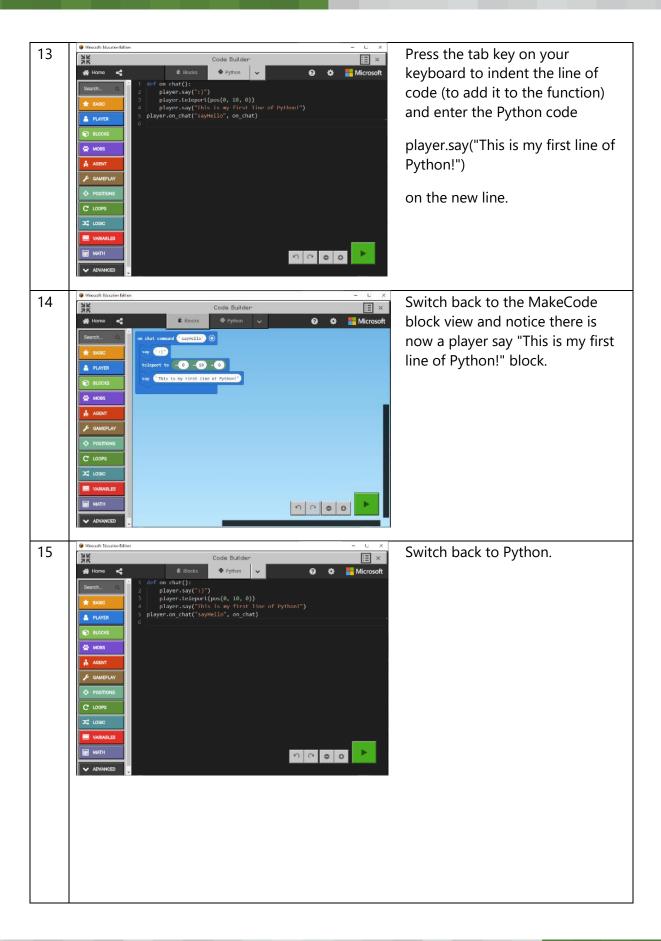
















16 Create another empty line after the code

player.say("This is my first line of Python!")

you just entered.

Open the PLAYER drawer and notice there are a number of blocks just like in MakeCode blocks view.

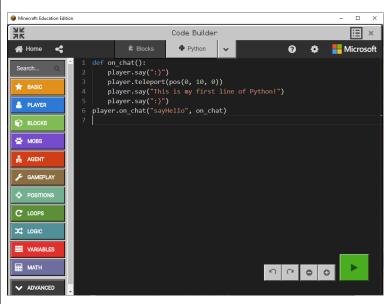
Find the block player say ":)" and drag it out and place it on the recently created empy line in your code.

You should notice the code

player.say(":)")

has been added.

It can be tricky to position the Python block easily so its best to just type Python text into the editor.



17 Return to the game and move onto the next Non Player Character