

# Welcome to the course!



*Python Scripting in Minecraft with Makecode.com*

# What is this course?

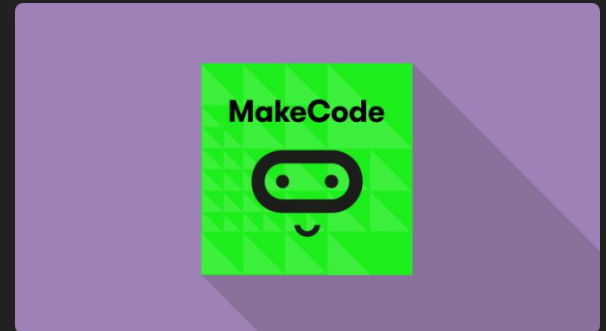
- This is a 10 week program
- This is step 1 of the course
- If you pass step 1, you will be allowed to take step 2
- The course consists of ten 90 minute classes, and ~1 hour of homework a week
- The main focus is coding in Minecraft, but a foundation for general computer science knowledge will also be covered



# What you'll know by the end of these 10 weeks:

- How to enable script with Python in Minecraft
- How to use Python to make fun games and change the way that Minecraft works
- How computers and the internet work
- How programming works and what it actually does
- How to build in Minecraft using Python
- How to control your game with the chat in Minecraft

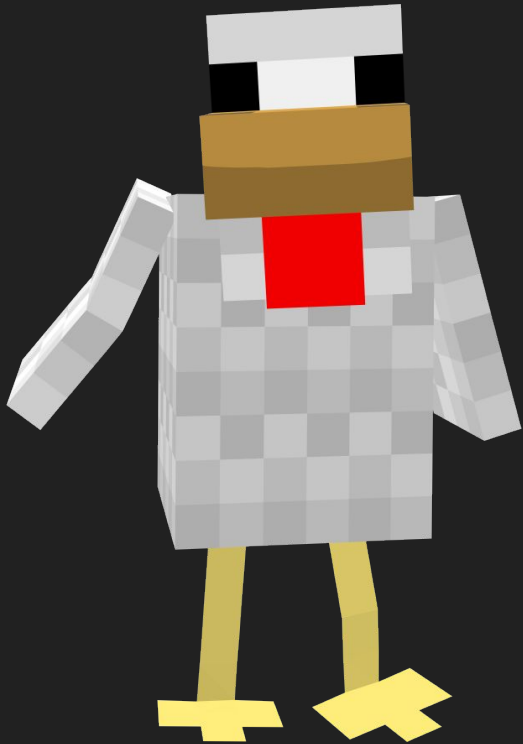
And so much more!...



A vibrant Minecraft landscape featuring a blue sky with white, blocky clouds. In the foreground, a Creeper and a Spider are positioned on a grassy ledge. A blue river flows through the scene, with a small boat and a player visible in the distance. The terrain is composed of various green and brown blocks, creating a pixelated, blocky environment.

**Let's get started!**  
**Follow me!**

So we made it rain  
chickens....



*Now what?*

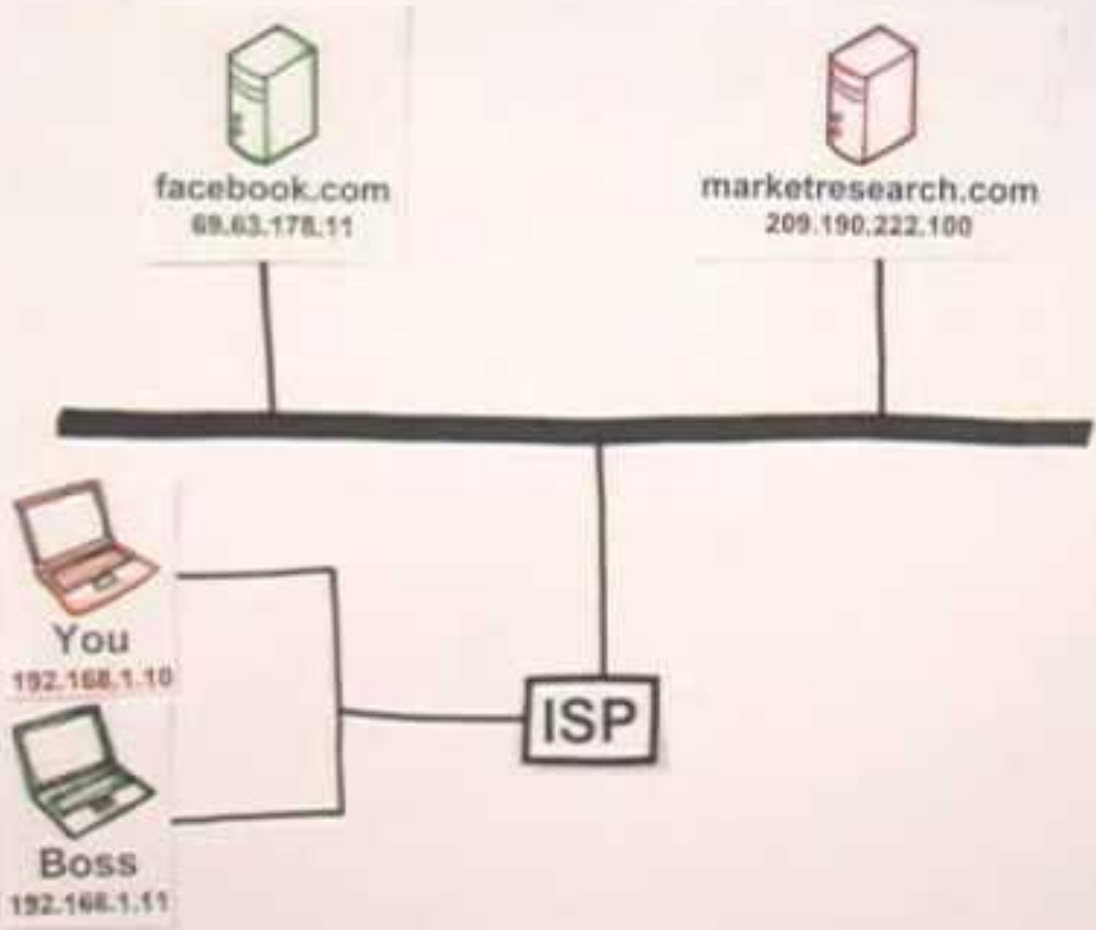


**Let's take a look at  
how your computer  
works and how you  
play Minecraft on it!**

# HOW COMPUTERS WORK

WHAT MAKES  
A COMPUTER,  
A COMPUTER?







The background is a dark blue, almost black, field filled with a complex, glowing circuit board pattern. The lines of the circuit are in various shades of blue, from light to dark, creating a sense of depth and movement. The pattern is dense and intricate, resembling a high-tech electronic board.

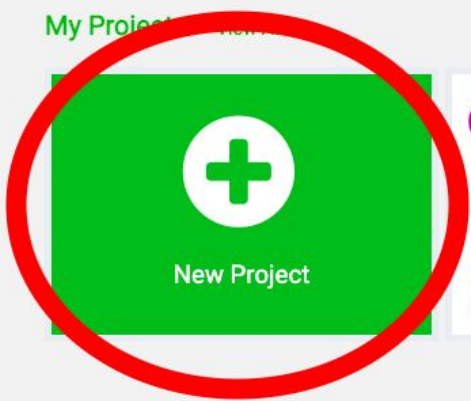
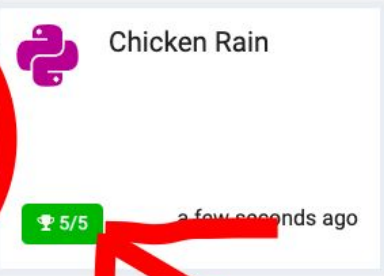
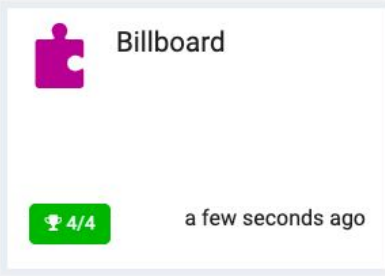
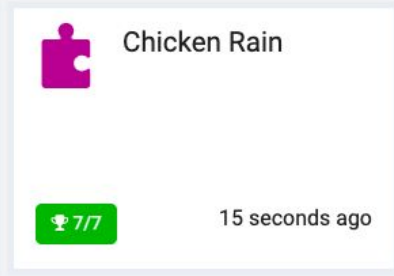
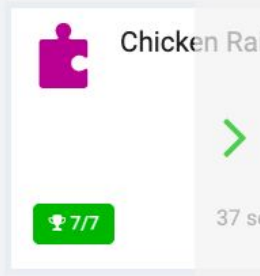
**Now let's review what  
we learned...**

**Ok, let's open  
Minecraft back up!**



**I'm going to give you a  
challenge...**

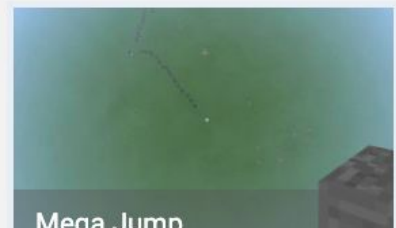
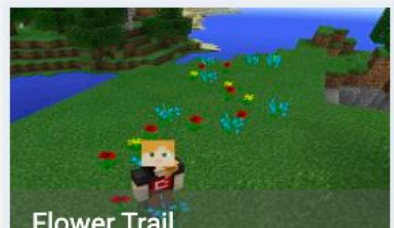
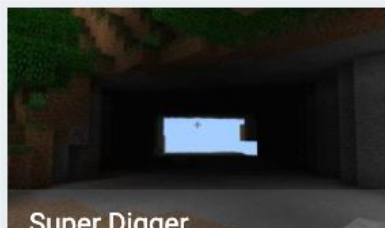
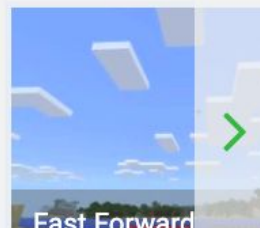
### My Projects


A green rectangular button with a white circle in the center containing a green plus sign. Below the circle, the text "New Project" is written in white. The button is circled in red.A white card with a purple Python logo icon on the left. To the right of the icon, the text "Chicken Rain" is displayed. Below the icon and text, there is a green progress bar showing "5/5" and the text "a few seconds ago".A white card with a purple puzzle piece icon on the left. To the right of the icon, the text "Billboard" is displayed. Below the icon and text, there is a green progress bar showing "4/4" and the text "a few seconds ago".A white card with a purple puzzle piece icon on the left. To the right of the icon, the text "Chicken Rain" is displayed. Below the icon and text, there is a green progress bar showing "7/7" and the text "15 seconds ago".A white card with a purple puzzle piece icon on the left. To the right of the icon, the text "Chicken Rain" is displayed. Below the icon and text, there is a green progress bar showing "7/7" and the text "37 s".


### Tutorials


A tutorial card with a blue sky and white clouds background. A green speech bubble in the top left corner contains the text "New? Start Here!". Below the speech bubble, the text "Chicken Rain" is displayed.A tutorial card with a green grassy field and a blue sky background. The text "Mega Jump" is displayed at the bottom.A tutorial card showing a Minecraft character standing on a grassy field with a trail of colorful flowers. The text "Flower Trail" is displayed at the bottom.A tutorial card showing a dark cave interior with a bright light source in the distance. The text "Super Digger" is displayed at the bottom.A tutorial card with a blue sky and white clouds background. The text "Fast Forward" is displayed at the bottom.


### Super Powers


A super power card with a green grassy field and a blue sky background. The text "Mega Jump" is displayed at the bottom.A super power card showing a Minecraft character standing on a grassy field with a trail of colorful flowers. The text "Flower Trail" is displayed at the bottom.A super power card showing a dark cave interior with a bright light source in the distance. The text "Super Digger" is displayed at the bottom.A super power card with a dark blue sky and a purple figure floating in the air. The text "Walk on Water" is displayed at the bottom.A super power card with a blue sky and white clouds background. The text "Fast Forward" is displayed at the bottom.

  
New Project

 Chicken Rain  
🔋 5/5 a few seconds ago

 Billboard  
🔋 4/4 a few seconds ago

 Chicken Rain  
🔋 7/7 15 seconds ago

 Chicken Rain  
🔋 7/7


Tutorials

  
Chicken Rain


Mega J

Create a Project 🤔🤔 ✕

Give your project a name.

1 

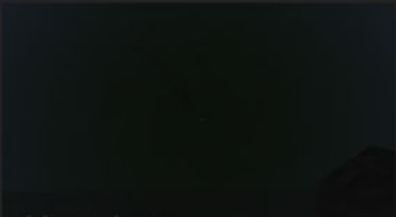
[Code options](#)

2 

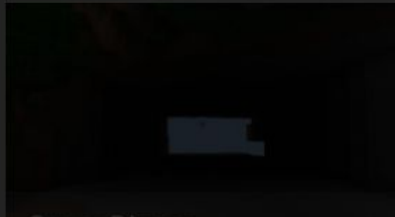
per Digger

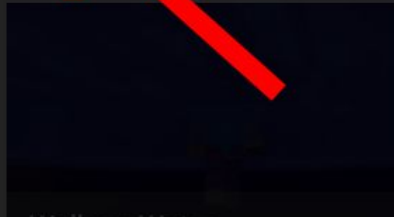
Fast Forward

Super Powers













# Your Challenge:

- Make it so that when you type “animals” the following will happen
  - 20 chickens spawn 20 blocks above the player
  - Then, 15 cows spawn 10 blocks above the player
  - Then, 35 sheep spawn 2 blocks above and 5 blocks beside the player
  
- Bonus challenge:
  - Explore the code block menu, and figure out how to spawn a diamond block above the player when they run the program



***Private message me if you have any questions!***

***Once you finish the challenge, feel free to explore the code blocks and try out whatever you can think of!***



# See you next week!

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Thanks for coming!



Next week, we will play a  
minigame called Spleef  
together, and learn how  
to code the game in  
Minecraft with  
[makecode.com](https://makecode.com)

