

# Minecraft

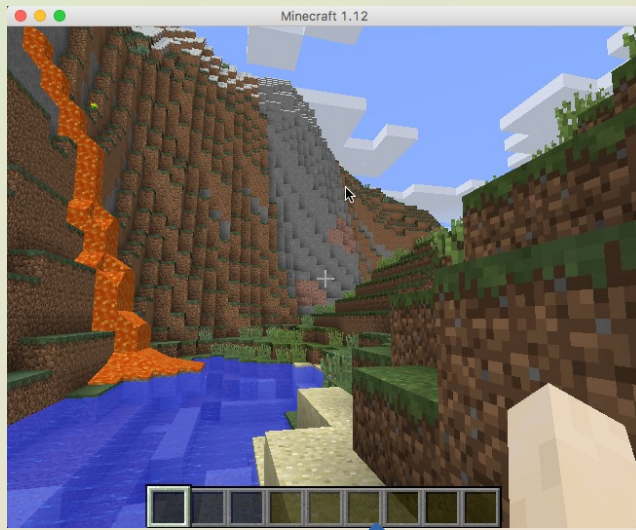
Richard Smith

# Rough plan?

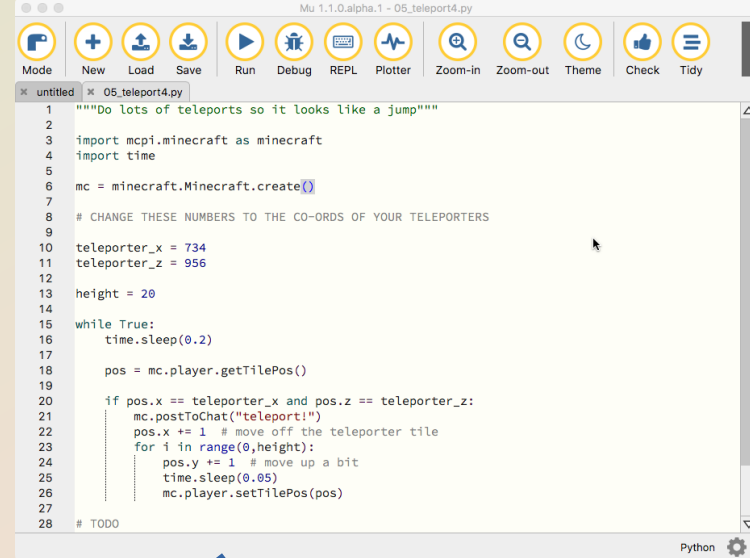
- 10 AM creative mode in teams
- 11 AM programming
- 12 PM lunch
- 1 PM programming
- 2 PM any mode you like

# 3d co-ordinates

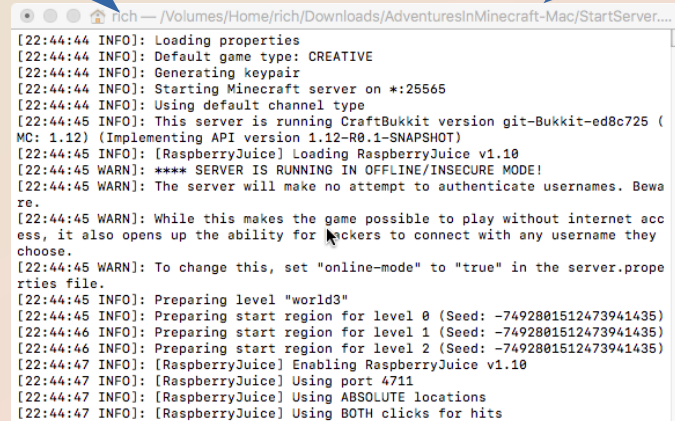
- (Demo my game)
- Compass: North, south, east, west.
- Negative co-ordinates



Minecraft

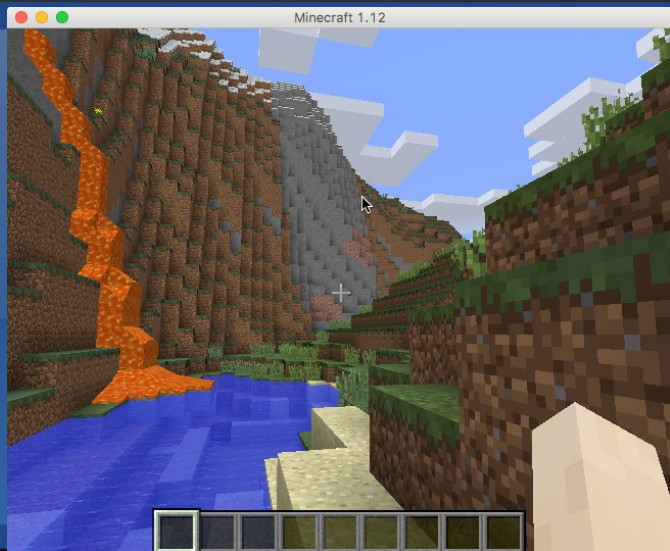


Python program



Server

- Possible to work in pairs



wifi

```
1 """Do lots of teleports so it looks like a jump"""
2
3 import mcpi.minecraft as minecraft
4 import time
5
6 mc = minecraft.Minecraft.create()
7
8 # CHANGE THESE NUMBERS TO THE CO-ORDS OF YOUR TELEPORTERS
9
10 teleporter_x = 734
11 teleporter_y = 956
12
13 height = 20
14
15 while True:
16     time.sleep(0.2)
17
18     pos = mc.player.getTilePos()
19
20     if pos.x == teleporter_x and pos.y == teleporter_y:
21         mc.postToChat("teleporter")
22         pos.x += 1 # move off the teleporter tile
23         for i in range(0, height):
24             pos.y += 1 # move up a bit
25             time.sleep(0.05)
26             mc.player.setTilePos(pos)
27
28 # 1000
```

rich --- /Volumes/Home/rich/.../AdventureInMinecraft-Mac/StarServer...

```
(22:44:44 INFO): Loading properties
(22:44:44 INFO): Default game type: CREATIVE
(22:44:44 INFO): Generating Keypair
(22:44:44 INFO): Starting Minecraft server on *:25565
(22:44:44 INFO): Using default channel type
(22:44:45 INFO): This server is running CraftBukkit version git-Bukkit-e08c725 (
MC: 1.12) [Implementing API version 1.12-80.1-SNAPSHOT]
(22:44:45 INFO): [RaspberryJuice] Loading RaspberryJuice v1.10
(22:44:45 WARN): *** SERVER IS RUNNING IN OFFLINE/INSECURE MODE!
(22:44:45 WARN): The server will make no attempt to authenticate usernames. Bewe
r!
(22:44:45 WARN): While this makes the game possible to play without internet acc
ess, it also opens up the ability for hackers to connect with any username they
choose.
(22:44:45 WARN): To change this, set "online-mode" to "true" in the server.prope
rties file.
(22:44:45 INFO): Preparing level "world"
(22:44:45 INFO): Preparing start region for level 0 (Seed: -7492081512473941435)
(22:44:46 INFO): Preparing start region for level 1 (Seed: -7492081512473941435)
(22:44:46 INFO): Preparing start region for level 2 (Seed: -7492081512473941435)
(22:44:47 INFO): [RaspberryJuice] Enabling RaspberryJuice v1.10
(22:44:47 INFO): [RaspberryJuice] Using port 4712
(22:44:47 INFO): [RaspberryJuice] Using ABSOLUTE locations
(22:44:47 INFO): [RaspberryJuice] Using BOTH clicks for hits
```

- But not larger groups this week





- Starting and stopping server
- (demo 00 hello world)
- (demo 01 coordinates)

# Press F3 for debug mode

- Shows XYZ co-ordinates
- Shows axis
- Shows lots of other stuff you dont need

- (demo 02 teleport)
- (talk about 03 telport2)