## Building in Minecraft

Minecraft is a great 3D world game – you can program it using python on a Raspberry Pi. Instead of moving a turtle, you can move the player and create blocks in the world.

2. chatting mc.postToChat("hello minecraft")
4. where are you?  pos = mc.player.getPos()  print(pos.x, pos.y, pos.z)
6. creating a block from mcpi.block import * x = 38 y = 0 z = 7 mc.setBlock(x+1, y, z, GLOWING_OBSIDIAN)
8. functions from mcpi.block import * def house(x,y,z):     mc.setBlocks(x,y,z,x+10,y+10,z+10,STONE)     mc.setBlocks(x+1,y+1,z+1,x+9,y+9,z+9,AIR)  house(10,10,10) house(20,10,10)
10. infinite loops import time while True:     time.sleep(1)     pos = mc.player.getPos()     print(pos.x, pos.y, pos.z)

## Challenges:

- 1. write a script that when you run it, it teleports you to the other side of the world
- 2. create a large area of stone
- 3. carve out the inside of your stone with air
- 4. carve out a window with air
- 5. write a loop to build a whole street of stone houses

## Links:

http://www.stuffaboutcode.com/p/minecraft-api-reference.html http://arghbox.wordpress.com/tag/minecraft-pi-api/