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	Minecraft
API	
Alice in Wonderland	
	Minecraft
API	
Look Who's Talking	
	Minecraft

Python scripts for controlling Minecraft Pi Edition on Raspberry Pi, found at mcpipy.com: https://github.com/brooksc/mcpipy

Parts taken from Craig Richardson's Minecraft Pi Book: http://arghbox.wordpress.com/

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# Begin at the Beginning. Installing Minecraft

```
Click the icon for LXTerminal to open a new terminal window. wget 'https://s3.amazonaws.com/assets.minecraft.net/pi/minecraft-pi-0.1.1.tar.gz'
```

To decompress it:

```
tar -zxvf minecraft-pi-0.1.1.tar.gz
```

To run it:

cd mcpi

./minecraft-pi

# Writing to the console

```
import mcpi.minecraft as minecraft
mc = minecraft.Minecraft.create()
message = raw_input("Write here to chat:")
mc.postToChat(message)
```

## Where am I?

```
import mcpi.minecraft as minecraft
mc = minecraft.Minecraft.create()
pos = mc.player.getPos()
x = pos.x
y = pos.y
z = pos.z
mc.postToChat("x=%i, y=%i, z=%i" % (x,y,z))
```

API		
	Forbidden Planet	
		Minecraft
API		
	Goldfinger	
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		Minecraft
API		
	Field of Dreams	
		Minecraft

## Finding the Player continuously

```
import mcpi.minecraft as minecraft
from time import sleep
mc = minecraft.Minecraft.create()
while True:
    pos = mc.player.getPos()
    x = pos.x
    y = pos.y
    z = pos.z
    mc.postToChat("x=%i, y=%i, z=%i" % (x,y,z))
    sleep(1)
```

#### Midas Touch

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
from time import sleep
water = 9 # Declare a variable
air = 0 # Declare a variable
while True:
    pos = mc.player.getTilePos()
    blockBelow = mc.getBlock(pos.x, pos.y - 1, pos.z)
    if blockBelow != air and blockBelow != water:
        mc.setBlock(pos.x, pos.y - 1, pos.z, block.GOLD_BLOCK)
else:
    mc.postToChat("Not placing block. Over water or air")
        sleep(1)
    sleep(0.1)
```

### Placing a block

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
pos = mc.player.getTilePos()
mc.setBlock(pos.x, pos.y + 4, pos.z, block.DIAMOND_BLOCK)
mc.postToChat("Look above you")
```

# Flatten the planet

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
mc.setBlocks(-128,0,-128,128,64,128,block.AIR)# Air above
mc.setBlocks(-128,0,-128,128,-1,128,block.WATER)# Water below
mc.postToChat("Waterworld in 5 minutes. Take a break.")
```

API		
	Star Trek	
		MINECRAFT
API		
	Raiders of the Lost Ark	
		Minecraft
		MINLORIA I
API		
	Flash Gordon	
	Train Gordon	
		Minecraft

#### Big Jump

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
pos = mc.player.getTilePos()
mc.setBlock(pos.x, pos.y + 4, pos.z, block.GOLD_BLOCK)
mc.player.setPos(pos.x,pos.y+10, pos.z)
```

#### **Teleport**

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
mc.player.setTilePos(10,5,30)
```

### Pyramid

## Raining Rocks

API		
	A NJ TI	
	A New Hope	
		Minecraft
API		
	The Towering Inferno	
		Minecraft
API		
	The Italian Job	
		Minecraft

#### That's no Moon

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
pos = mc.player.getPos()
radius = 6
for x in range(-(radius),radius):
    for y in range(-(radius), radius):
        if x **2 + y **2 + z **2 < radius **2:
            mc.setBlock(pos.x + x - radius -10 , pos.y + y + radius, pos.z -
z , block.COBBLESTONE)</pre>
```

### Tower with Lava on top

# TNT Block

```
import mcpi.minecraft as minecraft
import mcpi.block as block
mc = minecraft.Minecraft.create()
pos = mc.player.getTilePos()
mc.setBlock(pos.x + 4, pos.y, pos.z , block.WOOL.id, 13) #Green
mc.setBlock(pos.x + 4, pos.y , pos.z + 1 , block.WOOL.id, 0)
    #White
mc.setBlock(pos.x + 4, pos.y , pos.z + 2 , block.WOOL.id, 14)
    #Red
mc.setBlock(pos.x + 4, pos.y + 1, pos.z + 1, block.TNT.id, 1) #
#Block is armed.
mc.postToChat("Hit the TNT, then run.")
```