Copyright & License		API
Copyright © 2014 Tim Gibbon		$Alice\ in\ Wonderland$
	MINECRAFT	Minecraft
API		API
Look Who's Talking		Forbidden Planet
	Minecraft	Minecraft

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

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/

Craig's book is licensed under the Creative Commons license of Attribution-NonCommercial-ShareAlike 3.0 Unported (CC BY-NC-SA 3.0)

tim.gibbon@lunarlite.co.uk

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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)
```

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	API
Gold finger	Field of Dreams
Minecraft	Minecraft
API	API
Star Trek	Raiders of the Lost Ark
Minecraft	Minecraft

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.")
```

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)
```

Pyramid

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)
```

API			API		
	Flash Gordon			A New Hope	
		Minecraft			Minecraft
API			API		
	The Towering Inferno			The Italian Job	
	The Towering Interno			The Ivanian 905	

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>
```

Raining Rocks

TNT Block

Tower with Lava on top