

# Minecraft

## Experiments

- <http://www.raspberrypi-spy.co.uk/2014/06/building-a-castle-in-minecraft-with-python/>

connection

```
from mcpi.minecraft import Minecraft
from mcpi import block

mc = Minecraft.create(address="192.168.2.23")
```

say "Hello World"

```
mc.postToChat("Hello world")
```

get position

```
x, y, z = mc.player.getPos()
```

goto (jump)

```
mc.player.setPos(x, y+100, z)
```

put a block

```
mc.setBlock(x+1, y, z, 1)
mc.setBlock(x+1, y, z, block.STONE.id)
mc.setBlock(x+1, y, z, block.STONE.id, 2) # color 2
```

multi block

```
stone = 1
mc.setBlocks(x+1, y+1, z+1, x+11, y+11, z+11, stone)
```

## Game

download launcher form <https://minecraft.net/it-it/download/> in ~/minecraft

```
java -jar Minecraft.jar
```

[~/minecraft/options.txt](#)

```
pauseOnLostFocus:false
```

launcher

[~/minecraft/minecraft.sh](#)

```
#!/bin/sh
java -jar ~/.minecraft/launcher.jar
```

## Python

```
sudo apt install -y python3
sudo apt install -y idle3
sudo apt install -y python3-pip
sudo pip3 install -U pip
## sudo pip3 install
https://github.com/py3minepi/py3minepi/archive/master.zip
```

Download mods.zip and python-scripts.zip from <https://github.com/arpruss/raspberryjammod/releases>

```
cd ~/.minecraft
mkdir -p mods
cd mods
unzip ~/Downloads/mods.zip
cd ~/.minecraft
unzip ~/Downloads/python-scripts.zip
```

## Server

```
mkdir ~/minecraft
cd ~/minecraft
wget
https://hub.spigotmc.org/jenkins/job/BuildTools/lastSuccessfulBuild/artifact
/target/BuildTools.jar
java -jar BuildTools.jar --rev 1.11.2
```

[spigot.sh](#)

```
#!/bin/sh

java -Xms512M -Xmx1G -XX:+UseConcMarkSweepGC -jar spigot*.jar
```

[~/minecraft/server.properties](#)

```
gamemode=1
```

```
force-gamemode=true
```

download raspberryjuice (1.10) from <https://dev.bukkit.org/projects/raspberryjuice/files> and put in  
~/minecraft/plugins

plugins:

- <https://dev.bukkit.org/projects/multiworld-v-2-0>

```
mw list
mw create daniele
mw load daniele
```

- <https://dev.bukkit.org/projects/permissionsex>

[PermissionsEx/permissions.yml](#)

```
groups:
  Default:
    options:
      default: true
    permissions:
      - modifyworld.*
  Admin:
    options:
      prefix: '&0(&4Admin&0)&7 '
    permissions:
      - permissions.*
      - multiworld.*
users:
  scipioit:
    group:
      - Admin
    permissions:
      - permissions.*
    options:
      name: scipioit
schema-version: 1
```

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<https://wiki.csgalileo.org/tips/gameengine/minecraft?rev=1503076829>

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