Creating in Minecraft with Python

Open a Minecraft world. Press the TAB button to be able to click outside of Minecraft.

Open Python 3, create a **New File (CRTL+N)** and import the Minecraft functionality by typing these lines at the top:

```
from mcpi.minecraft import Minecraft
mc = Minecraft.create()
```

Set a Block

You can create one block in your Minecraft world by using the `setBlock` function. You just have to tell it the x, y and z coordinates where you want the block and the "block ID," or number of the block type. For example, Cobblestone is number 4. You can see the coordinates where you are in the top left corner of your screen:
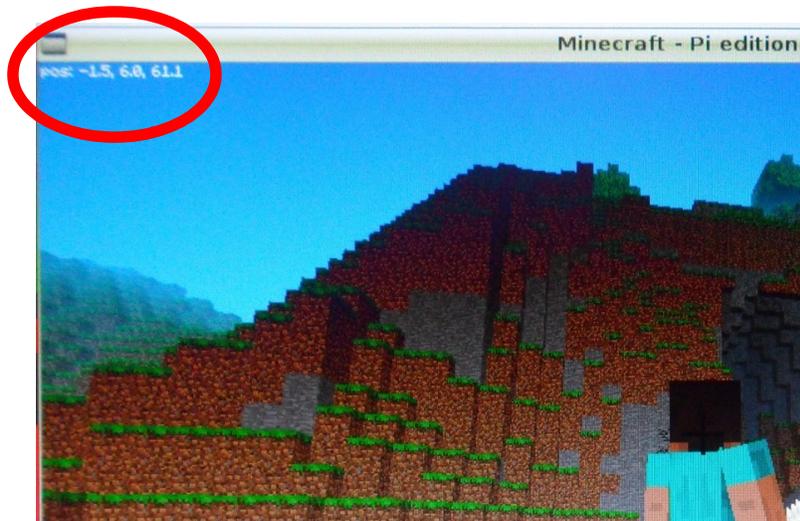

To place a block of Cobblestone on (-1.5, 6.0, 61.1) you can just use whole numbers.

```
mc.setBlock(-2,6,61,4)
```

Use numbers from your world! Run the program (Run → Run Module or F5). You'll have to **Save** it and name it on the first Run. You should see a block of Cobblestone somewhere near you!

Want to set more than one block? Use `mc.setBlocks`. This creates a "cuboid" of a certain material. You need to tell the function the opposite corners of the cuboid like this:

(x2, y2, z2)

*not to scale

(x1, y1, z1)
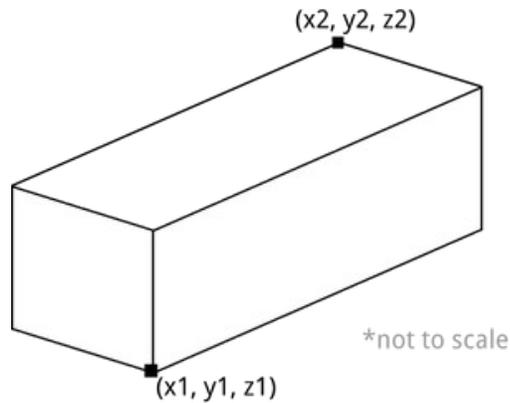
Stone House

To set a 6x5x7 cuboid of Cobblestone at your position, you can look at your coordinates in the top left corner of the screen. Let's say you're at (1,2,3). Using variables will make it easier to modify your code:

```
x,y,z = 1,2,3
mc.setBlocks(x,y,z,x+6,y+5,z+7, 4)
```

This makes a solid block of stone. To hollow out the inside, you set the blocks inside the house to air, which is number 0:

```
mc.setBlocks(x+1,y,z+1,x+5,y+4,z+6, 0)
```

Now make some windows and a wool carpet!
Here are some more helpful block IDs!

AIR	0	MELON	103
STONE	1	GLOWING OBSIDIAN	246
GRASS	2	WOOL 35	
DIRT	3	• ORANGE 1	
WOOD_PLANKS	5	• MAGENTA 2	
BEDROCK	7	• YELLOW 4	
WATER_FLOWING	8	• PINK 6	
WATER_STATIONARY	9	• PURPLE 10	
LAVA_FLOWING	10	• BLUE 11	
SAND	12	• GREEN 13	
GOLD_ORE	14	• RED 14	
GLASS	20	• BLACK 15	
OBSIDIAN	49	To use colored wool: mc.setBlock(x,y,z,35,10)	