



Minecraft Workshop

Part 0

Place a Gold Block

```
1 from mcpi.minecraft import Minecraft
2 import mcpi.block as block
3 mc = Minecraft.create()
4 pos = mc.player.getPos()
5 x = pos.x
6 y = pos.y
7 z = pos.z
8 mc.setBlock(x, y, z, block.STONE.id)
```

This code creates a stone block at your feet.

- **Bronze Challenge:** Change the x, y, and z values so the block appears next to you. Try $x + 2$ or $y + 3$.
- **Silver Challenge:** Try different blocks. See if you can place a **Gold Block** next to you.
- **Gold Challenge:** Use `mc.player.setPos(50, 50, 50)` to teleport Steve around the map. Change the numbers to try different places.

Place a Larger Block

```
1 from mcpi.minecraft import Minecraft
2 import mcpi.block as block
3 mc = Minecraft.create()
4 pos = mc.player.getPos()
5 x = pos.x + 1
6 y = pos.y
7 z = pos.z + 1
8 x1 = pos.x + 5
9 y1 = pos.y + 5
10 z1 = pos.z + 5
11 mc.setBlocks(x, y, z, x1, y1, z1, block.DIAMOND_BLOCK.id)
```

The **x1**, **y1**, **z1** are the coordinates of the other corner of the cuboid.

- **Bronze Challenge:** Can you change the size of the large block?
- **Silver Challenge:** Can you create a number of cuboids of different sizes around you?
- **Gold Challenge:** Can you create a block of air inside another block which you have created, to make a hollow block?

