Minecraft

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mc_connect()
getPlayerPosition()
setBlocks()
getBlockHits()
```python
for (i in 1:100) {
    for (j in 1:100) {
        setBlock(
            host_pos[1]+i,
            host_pos[2]+j,
            host_pos[3],
            grayscale_blocks[img[i,j,1,1], 2],
            grayscale_blocks[img[i,j,1,1], 3])
    }
}
```
chatPost('Hi, I thought a number between 1 and 100.

msg <- getChatPosts()

Nope, it's greater than 70
<rstatsguy> $71$
Wow, you won!!!
Hi, I thought a number between 1 and 100. Can you guess it?
Type numbers in the chat and whoever finds out the number first, will receive a foobar!
<rstatsguy> $50$
Nope, it's greater than 50
<rstatsguy> $75$
Nope, it's smaller than 75
<rstatsguy> $60$
Nope, it's smaller than 60
<rstatsguy> $55$
Nope, it's greater than 55
<rstatsguy> $57$
Nope, it's greater than 57
<rstatsguy> $59$
Nope, it's smaller than 59
<rstatsguy> $58$
Wow, you won!!!
R Programming with Minecraft

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1 Introduction
2.3.2 The **miner** Dockerfile

The **miner** package includes a Dockerfile, which is a plain text file that gives Docker the recipe for setting up an appropriate container.

This file specifies the following steps that are needed to set up the required environment and run a Spigot Minecraft Server with the RaspberryJuice plug-in:

- Creates a directory called "minecraft" for the Minecraft server
- Downloads all required files to build a Spigot server ([https://www.spigotmc.org](https://www.spigotmc.org)) and saves them in the "minecraft" direction
- Builds the Spigot server
- Symlink for the built Spigot server?
- Accepts the End User License Agreement for Minecraft ("eula") (see [here](https://www.spigotmc.org) to see what you are agreeing to with this step)
- Downloads the RaspberryJuice plugin (which we’re using for API access) to a subdirectory of the "minecraft" directory called "plugins"
- Install the RaspberryJuice plugin
- Open up the ports required to access the game (port 25565) and the API (4711)
- Start the Minecraft server, [explain options we’re using for that]

This Dockerfile is included in the **miner** package. To find it on your computer once you’ve installed the **miner** package, you can run:
library(craft)
v <- getPlayerPos()
write_text(" R in ", v+c(0,10,0), font="8x12", dir="west")
write_text("Minecraft", v+c(0,1,0), font="8x12", dir="west")
library(craft)
myid <- tail(getPlayerIds(),1)
elsafy(myid)
mc_plot(getPlayerPos() + c(0, 5, 5),
  x = iris$Sepal.Length, y = iris$Sepal.Width,
  group = iris$Species,
  xlab = "Sepal.Length", ylab = "Sepal.Width")
Thanks!

miner package: 
github.com/ropenscilabs/miner

“R Programming with Minecraft”: 
ropenscilabs.github.io/miner_book

craft package (examples): 
github.com/ropenscilabs/craft

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