

# How to install Minecraft on Raspberry Pi

Minecraft gives players the experience of building buildings by structural cubes according to the simulator of the 3D world and many other interesting features.

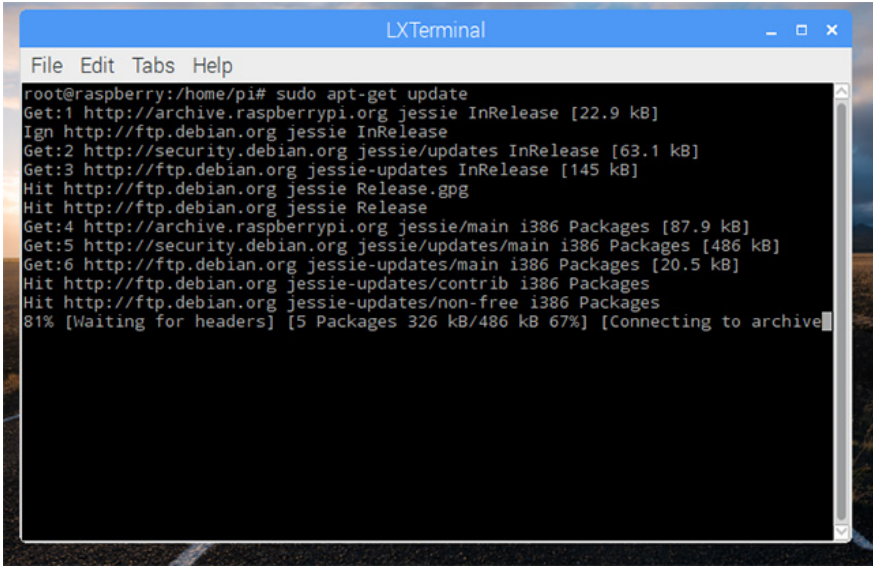
Minecraft is a sandbox game designed by Markus 'Notch' Persson Swedish software engineer, and later developed and widely known by Mojang.

In terms of creativity and construction, Minecraft allows players to build buildings using structural cubes according to the simulator of the 3D world. In addition, the game also has other interesting activities such as exploring, exploiting resources, crafting and fighting. Let's learn how to install Minecraft on Raspberry Pi machines.

The guide below will explain in detail how each step so you can successfully install Minecraft on your Raspberry Pi.

The first thing to do is to update the data packets on the Raspberry Pi by entering the following 2 commands.

```
sudo apt-get update  
sudo apt-get upgrade
```



```
LXTerminal  
File Edit Tabs Help  
root@raspberrypi:/home/pi# sudo apt-get update  
Get:1 http://archive.raspberrypi.org jessie InRelease [22.9 kB]  
Ign http://ftp.debian.org jessie InRelease  
Get:2 http://security.debian.org jessie/updates InRelease [63.1 kB]  
Get:3 http://ftp.debian.org jessie-updates InRelease [145 kB]  
Hit http://ftp.debian.org jessie Release.gpg  
Hit http://ftp.debian.org jessie Release  
Get:4 http://archive.raspberrypi.org jessie/main i386 Packages [87.9 kB]  
Get:5 http://security.debian.org jessie/updates/main i386 Packages [486 kB]  
Get:6 http://ftp.debian.org jessie-updates/main i386 Packages [20.5 kB]  
Hit http://ftp.debian.org jessie-updates/contrib i386 Packages  
Hit http://ftp.debian.org jessie-updates/non-free i386 Packages  
81% [Waiting for headers] [5 Packages 326 kB/486 kB 67%] [Connecting to archive]
```

Then update the firmware for your Raspberry Pi with this command:

```
sudo rpi-update
```

```
LXTerminal
File Edit Tabs Help
root@raspberrypi:/home/pi# sudo rpi-update
*** Raspberry Pi firmware updater by Hexxeh, enhanced by AndrewS and Dom
*** Performing self-update
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
  % Total    % Received % Xferd  Dload  Upload   Total   Spent    Left   Speed
100 13403 100 13403  0     0 17299    0  --:--:--  --:--:--  --:--:-- 17316
*** Relaunching after update
*** Raspberry Pi firmware updater by Hexxeh, enhanced by AndrewS and Dom
```

After updating the firmware, restart the Raspberry Pi with the command:

```
sudo reboot
```

```
LXTerminal
File Edit Tabs Help
Be aware there could be compatibility issues with some drivers
Discussion here:
https://www.raspberrypi.org/forums/viewtopic.php?f=29&t=167934
#####
*** Downloading specific firmware revision (this will take a few minutes)
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
  % Total    % Received % Xferd  Dload  Upload   Total   Spent    Left   Speed
100 168  0 168  0     0 167    0  --:--:--  0:00:01  --:--:-- 167
100 54.0M 100 54.0M  0     0 322k    0  0:02:51  0:02:51  --:--:-- 205k
*** Updating firmware
*** Updating kernel modules
*** depmod 4.9.59+
*** depmod 4.9.59-v7+
*** Updating VideoCore libraries
*** Using SoftFP libraries
*** Updating SDK
*** Running ldconfig
*** Storing current firmware revision
*** Deleting downloaded files
*** Syncing changes to disk
*** If no errors appeared, your firmware was successfully updated to a6b3e852ca70f2a12850b4542438583cc3b29788
*** A reboot is needed to activate the new firmware
root@raspberrypi:/home/pi#
```

By this step, you will have to install the experimental OpenGL Driver as well as show audio and glxgears using the commands below.

```
sudo apt-get -y install xcompmgr libgl1-mesa-dri
```

```
sudo apt-get -y install libalut0-libalut0
```

```
sudo apt-get -y install mesa-utils
```

```
pi@raspberrypi: ~
File Edit Tabs Help
Reading package lists... Done
Building dependency tree
Reading state information... Done
libgl1-mesa-dri is already the newest version.
xcompmgr is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 79 not upgraded.
pi@raspberrypi:~$ sudo apt-get -y install libalut0 libalut-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libopenal-dev
The following NEW packages will be installed:
  libalut-dev libalut0 libopenal-dev
0 upgraded, 3 newly installed, 0 to remove and 79 not upgraded.
Need to get 92.0 kB of archives.
After this operation, 294 kB of additional disk space will be used.
Get:1 http://ftp.debian.org/debian/ jessie/main libalut0 i386 1.1.0-5 [32.6 kB]
Get:2 http://ftp.debian.org/debian/ jessie/main libopenal-dev i386 1:1.15.1-5 [23.6 kB]
Get:3 http://ftp.debian.org/debian/ jessie/main libalut-dev i386 1.1.0-5 [35.9 kB]
Fetched 92.0 kB in 1s (71.3 kB/s)
```

```
Setting up libopenal-dev:i386 (1:1.15.1-5) ...
Setting up libalut-dev (1.1.0-5) ...
Processing triggers for libc-bin (2.19-18+deb8u10) ...
pi@raspberrypi:~$ sudo apt-get -u install mesa-utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  mesa-utils
0 upgraded, 1 newly installed, 0 to remove and 79 not upgraded.
Need to get 30.2 kB of archives.
After this operation, 126 kB of additional disk space will be used.
Get:1 http://ftp.debian.org/debian/ jessie/main mesa-utils i386 8.2.0-1 [30.2 kB]
Fetched 30.2 kB in 0s (67.7 kB/s)
```

Next, use the *sudo raspi-config* command to activate "GL Driver".

After entering the above command, from the Advanced Options a utility configuration will be started, click on 'GL Driver' and then click Yes.

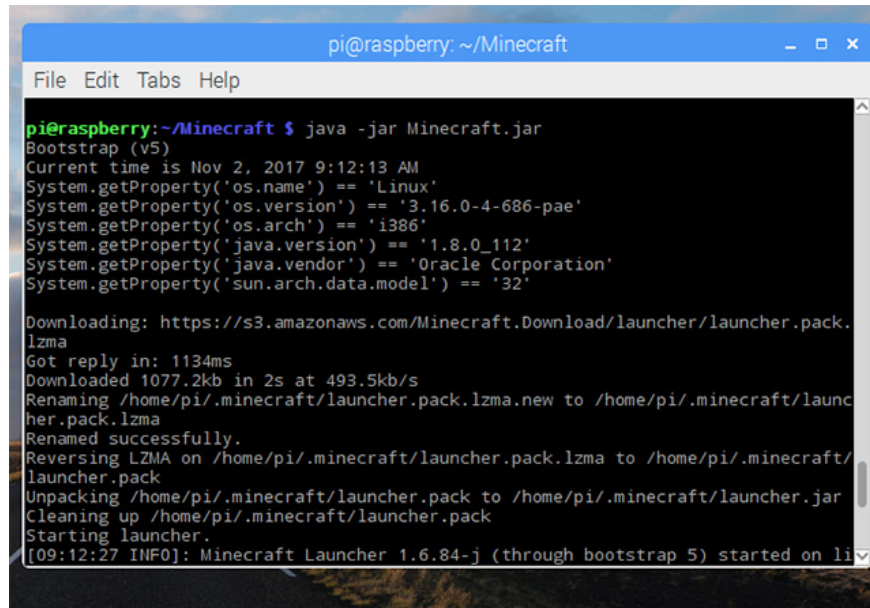
Now it's time to download Minecraft, by entering the following command in Terminal:

```
mkdir ~ / Minecraft; mkdir ~ / Minecraft / Natives; cd ~ / Minecraft && wget
```

```
pi@raspberrypi: ~
File Edit Tabs Help
pi@raspberrypi:~$ mkdir ~/Minecraft; mkdir ~/Minecraft/Natives; cd ~/Minecraft &&
wget https://s3.amazonaws.com/Minecraft.Download/launcher/Minecraft.jar
--2017-11-02 09:08:48-- https://s3.amazonaws.com/Minecraft.Download/launcher/Mi
necraft.jar
Resolving s3.amazonaws.com (s3.amazonaws.com)... 54.231.98.123
Connecting to s3.amazonaws.com (s3.amazonaws.com)[54.231.98.123]:443... connecte
d.
HTTP request sent, awaiting response... 200 OK
Length: 280212 (274K) [application/java-archive]
Saving to: 'Minecraft.jar'

Minecraft.jar 77%[=====> ] 211.63K 59.3KB/s eta 2s
```

In this step, use the *java -jar* command for *Minecraft.jar* to install the launcher.

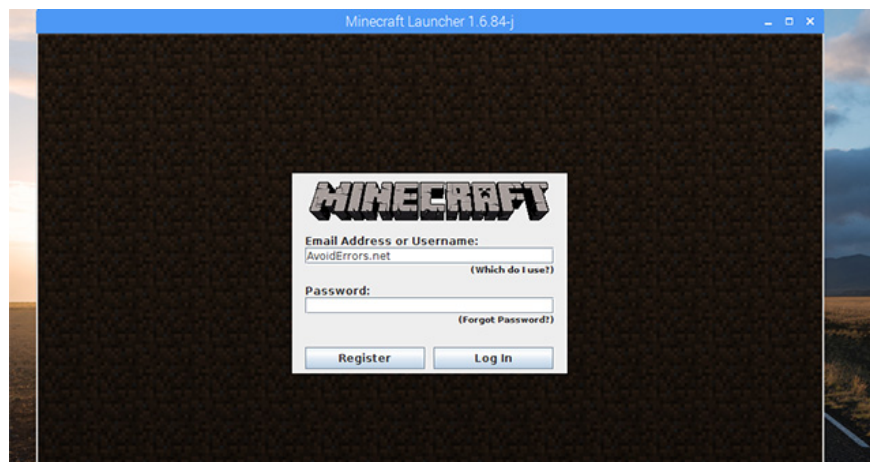


```
pi@raspberrypi: ~/Minecraft
File Edit Tabs Help

pi@raspberrypi:~/Minecraft $ java -jar Minecraft.jar
Bootstrap (v5)
Current time is Nov 2, 2017 9:12:13 AM
System.getProperty('os.name') == 'Linux'
System.getProperty('os.version') == '3.16.0-4-686-pae'
System.getProperty('os.arch') == 'i386'
System.getProperty('java.version') == '1.8.0_112'
System.getProperty('java.vendor') == 'Oracle Corporation'
System.getProperty('sun.arch.data.model') == '32'

Downloading: https://s3.amazonaws.com/Minecraft.Download/launcher/launcher.pack.lzma
Got reply in: 1134ms
Downloaded 1077.2kb in 2s at 493.5kb/s
Renaming /home/pi/.minecraft/launcher.pack.lzma.new to /home/pi/.minecraft/launcher.pack.lzma
Renamed successfully.
Reversing LZMA on /home/pi/.minecraft/launcher.pack.lzma to /home/pi/.minecraft/launcher.pack
Unpacking /home/pi/.minecraft/launcher.pack to /home/pi/.minecraft/launcher.jar
Cleaning up /home/pi/.minecraft/launcher.pack
Starting launcher.
[09:12:27 INFO]: Minecraft Launcher 1.6.84-j (through bootstrap 5) started on li
```

After installing the launcher, Minecraft will automatically launch, the rest is just login and battle



Just follow these instructions, make sure you install Minecraft on Raspberry Pi tape without worrying about any problems. Wish you have great entertainment moments.

See more:

1. What is Raspberry Pi and how is it used?
2. 20 great applications from micro-Raspberry Pi computers
3. Instructions for creating your own Minecraft mods to play games in your style

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