

# Systems Note 6

## R on Raspberry Pi

Hardware - Raspberry Pi 4 4GB RAM

OS - Raspberry Pi OS (32 bit) with desktop and recommended software Version May 2020 Kernel 4.19

uname -a gives Linux raspberrypi 5.4.51-v7l+ #1327 SMP date armv7l GNU/Linux

In Terminal.

```
sudo apt install r-base
```

```
R
```

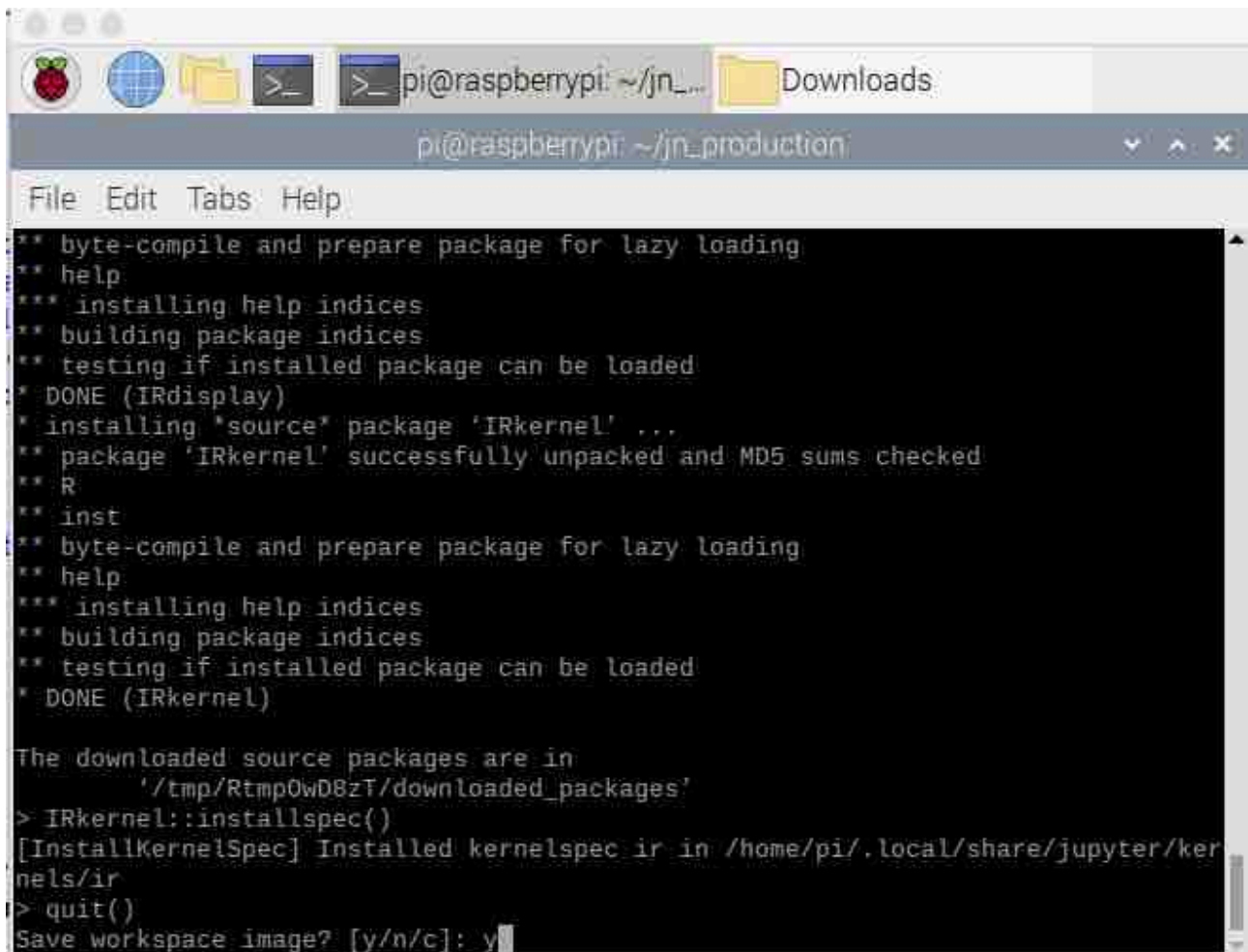
```
install.packages('IRkernel')
```

```
yes
```

```
yes
```

```
IRkernel::installspec()
```

```
quit()
```



```
pi@raspberrypi: ~/jn_... Downloads
pi@raspberrypi: ~/jn_production
File Edit Tabs Help
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
** building package indices
** testing if installed package can be loaded
* DONE (IRdisplay)
* installing *source* package 'IRkernel' ...
** package 'IRkernel' successfully unpacked and MD5 sums checked
** R
** inst
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
** building package indices
** testing if installed package can be loaded
* DONE (IRkernel)
The downloaded source packages are in
  '/tmp/Rtmp0wD8zT/downloaded_packages'
> IRkernel::installspec()
[InstallKernelSpec] Installed kernelspec ir in /home/pi/.local/share/jupyter/kernels/ir
> quit()
Save workspace image? [y/n/c]: y
```

jupyter notebook

Home Page - Select or create a notebook - Chromium

Home Page - Select or create a notebook - Chromium

localhost:8888/tree

jupyter

Quit Logout

Files Running Clusters

Select items to perform actions on them.

Upload New

Name		
hd5-1.12.0		
julia-1.3.1		
node-v14.7.0-linux-armv7l		
octave-5.2.0		
pcr2-10.35		
qhull-2020.1		
tests.ipynb		
Untitled.ipynb	19 days ago	6.14 kB
Untitled1.ipynb	24 days ago	564 B
Untitled2.ipynb	24 days ago	13 kB
Pipfile	24 days ago	351 B
Pipfile.lock	24 days ago	57.7 kB

Notebook:

- Julia 1.3.1
- Octave
- Python 3
- R
- Scitab

Other:

- Text File
- Folder
- Terminal