## About establishing a Stata kernel on JupyterHub

## **Step 1: Activating Stata in your terminal**

Open the terminal on Jupyter and then type the command:

```
nano ~/.bashrc
```

You will be guided to an interface like this:

```
/usr/share/doc/bash/examples/startup-files (in the package bash-doc)
# If not running interactively, don't do anything
       *) return::
# don't put duplicate lines or lines starting with space in the history.
# See bash(1) for more options
HISTCONTROL=ignoreboth
\mbox{\tt\#} append to the history file, don't overwrite it
# for setting history length see HISTSIZE and HISTFILESIZE in bash(1)
HISTFILESIZE=2000
# check the window size after each command and, if necessary, # update the values of LINES and COLUMNS.
shopt -s checkwinsize
  match all files and zero or more directories and subdirectories.
\# make less more friendly for non-text input files, see lesspipe(1) [ -x /usr/bin/lesspipe ] && eval "(SHELL=/bin/sh\ lesspipe)"
# set variable identifying the chroot you work in (used in the prompt below) if [ -z "debian_chroot]; debian_chroot]; then
     debian_chroot=$(cat /etc/debian_chroot)
# set a fancy prompt (non-color, unless we know we "want" color)
     xterm-color *-256color) color_prompt=yes;;
# uncomment for a colored prompt, if the terminal has the capability; turned
                                                                                                     [ Read 117 lines ]
C Location M-U Undo
/ Go To Line M-E Redo
                   O Write Out W Where Is K Cut T Execute R Read File Replace L Paste J Justify
                                                                                                                                             M-A Set Mark M-1 To Bracket M-0 Previous B Back
M-6 Copy 0 Where Was M-W Next F Forward
```

At the end of the file, add the following argument:

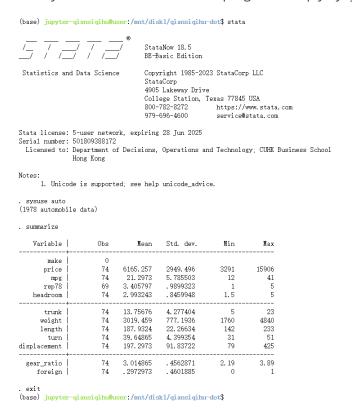
```
export PATH="/usr/local/stata-18:$PATH"
```

Please make sure that you haven't made other changes except adding the command to the end of the file. Then you can save the file by ctrl+s and exit by ctrl+x.

Please run the following command to apply the change:

```
source ~/.bashrc
```

Then you will be able to run Stata programs simply by typing stata in the terminal:



## Step 2: Establishing Stata kernels in Jupyter

We can utilize the library <a href="nbstata">nbstata</a> to build notebook files for Stata programs. First, open the terminal on Jupyter and install the library:

```
pip install nbstata
```

Then run the following command to install the Stata kernel:

```
python -m nbstata.install --conf-file
```

You can access the configuration file with

```
nano ~/.config/nbstata/nbstata.conf
```

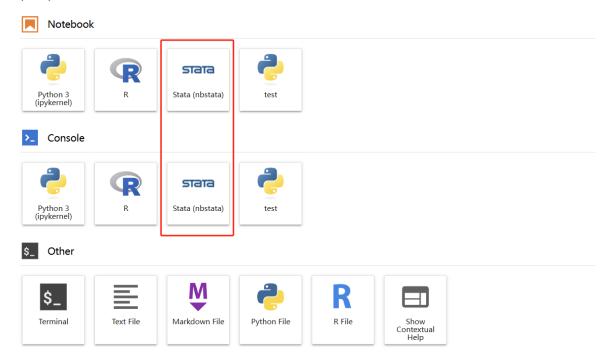
Please check whether the content is consistent with the screenshot below.

```
GNU nano 6.2 [nbstata]

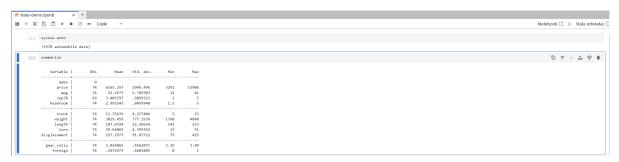
stata_dir = /usr/local/stata18 edition = mp
splash = False
graph_format = png
graph_width = 5.5in
graph_width = 5.5in
graph_lote = 10 none
missing = .
```

After properly setting up the configuration file, the Stata kernel will become available.

qiansiqihu-dot



Now you can run Stata programs in notebook files:



Please be aware that if you do not have access to <code>/usr/local/stata18</code>, the output will look like as follows:

[]: sysuse auto

Specified stata\_dir, "/usr/local/stata18", is not Stata's installation path