

How to Install Jupyter Notebooks for Social Research

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Christopher Playford

Kevin Ralston

June 2019





Introductory Note

- Many people find installing Jupyter Notebooks and kernels fiddly
- Here is a set of screen shots to help you see what your computer should/might/could be doing during the installation
- These screen shots are for a PC running Windows 10
- Please feel free to use or adapt this file
- It might help researchers to set up their notebooks
- It might be useful at the start of practical classes and workshops

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Installing Jupyter Notebooks and Python

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- Visualize results with [Matplotlib](#), [Bokeh](#), [Datashader](#), and [Holoviews](#)



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macOS



Linux

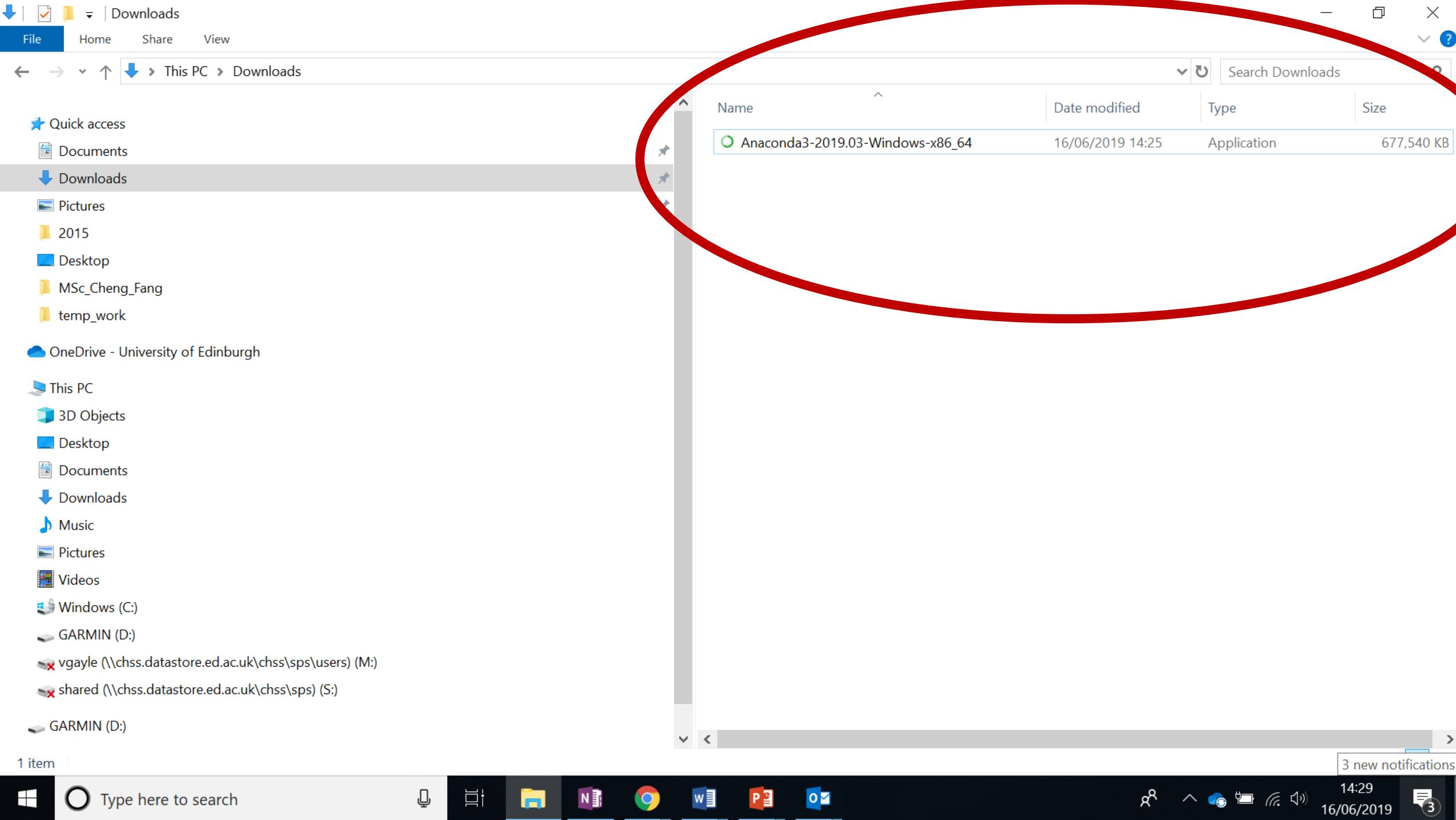
Anaconda 2019.03 for Windows Installer

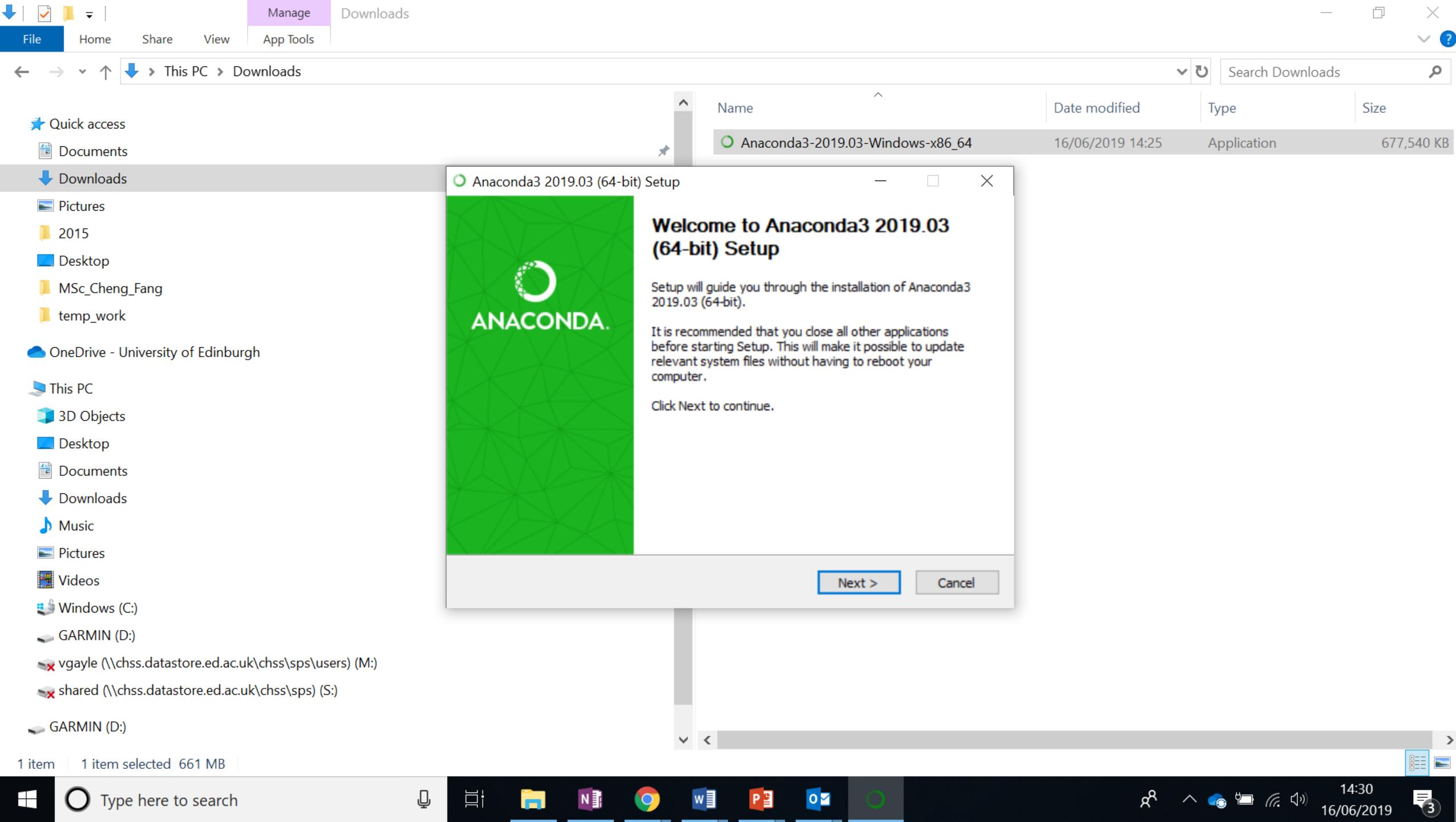
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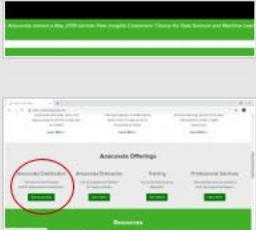
1 Anaconda3 2019.03 (64-bit) Setup
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=====
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=====

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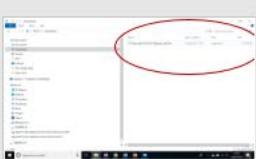
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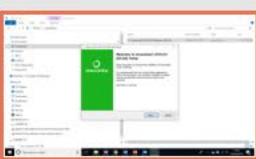
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Editing: Find Replace Select

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Anaconda3 2019.03 (64-bit) Setup
Select Installation Type
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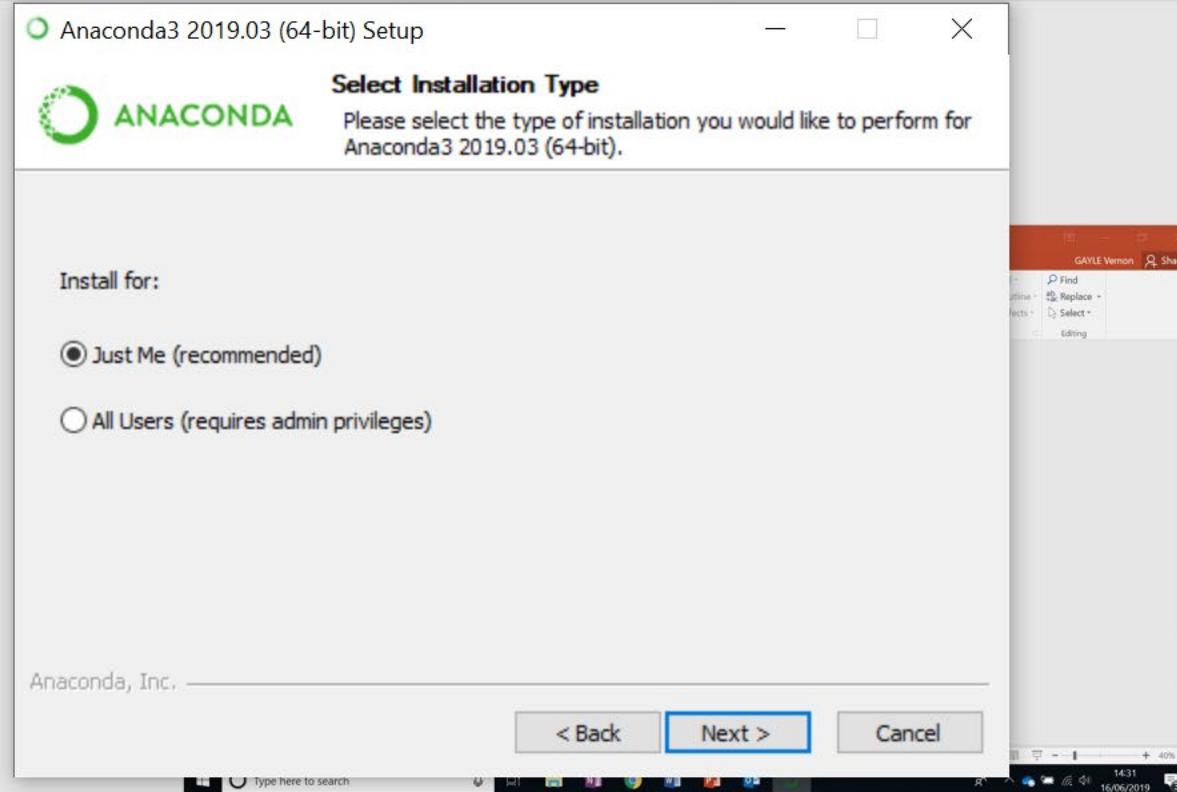
Install for:

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Anaconda3 2019.03 (64-bit) Setup
Choose Install Location
ANACONDA Choose the folder in which to install Anaconda3 2019.03 (64-bit).
Setup will install Anaconda3 2019.03 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder: C:\Users\Vernon\Anaconda3
Browse...
Space required: 3.1GB
Space available: 176.0GB
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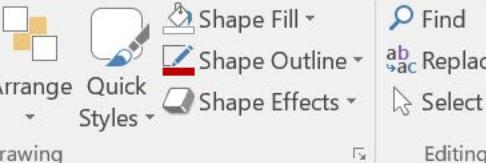
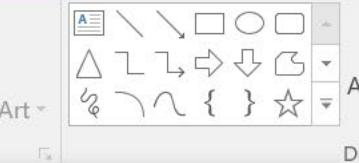
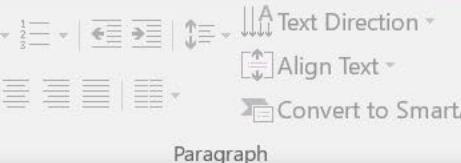
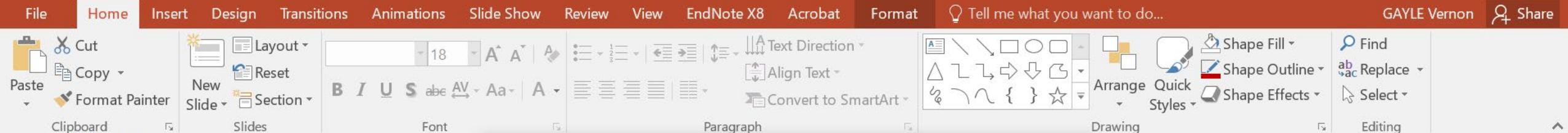
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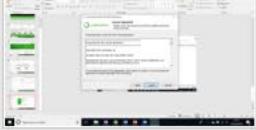


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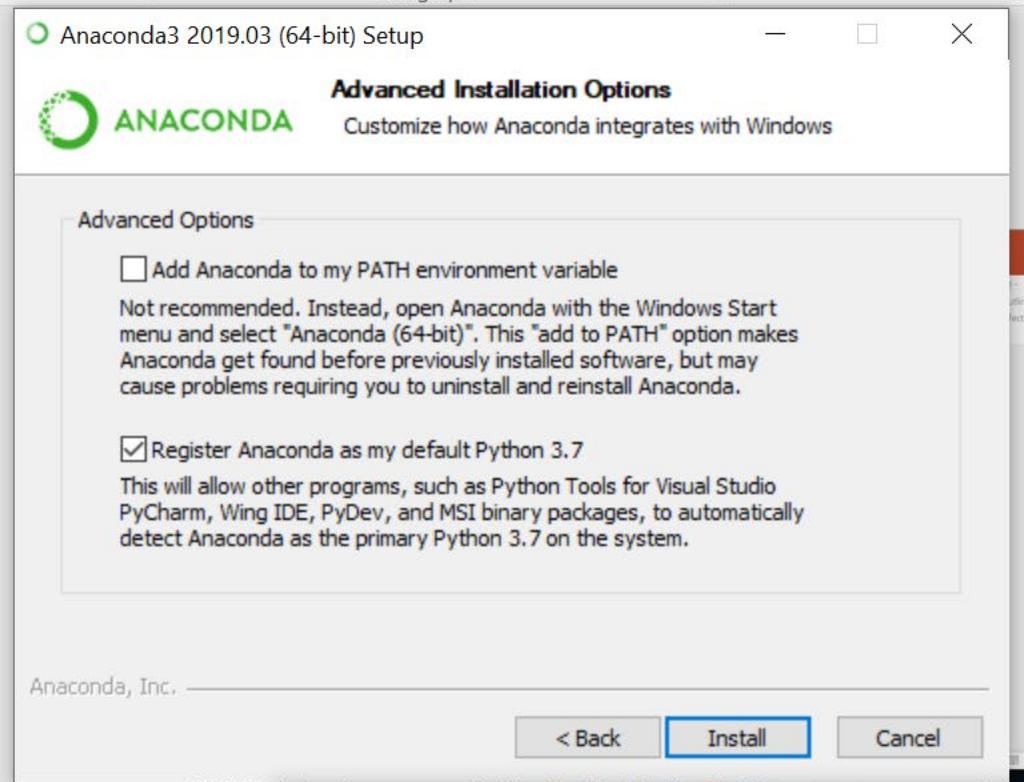
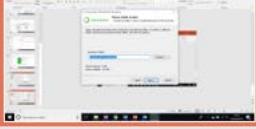
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Installation Complete
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Anaconda3	16/06/2019 14:43	File folder
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Links	13/06/2019 23:42	File folder
Music	13/06/2019 23:42	File folder
OneDrive	13/06/2019 11:39	File folder
OneDrive - University of Edinburgh	15/06/2019 11:05	File folder
Pictures	13/06/2019 23:42	File folder
Roaming	27/11/2018 12:45	File folder
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Best match

Jupyter Notebook App

Folders

- jupyter >
- jupyter-1.0.0.dist-info >
- @jupyterlab - in themes >
- @jupyterlab - in schemas >
- @jupyterlab - in themes >
- @jupyterlab - in schemas >
- @jupyterlab - in schemas >
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jupyter

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0	/	Name	Last Modified	File size
	3D Objects		3 days ago	
	Anaconda3		21 minutes ago	
	Contacts		3 days ago	
	Desktop		a day ago	
	Documents		21 minutes ago	
	Downloads		35 minutes ago	
	Favorites		3 days ago	
	Links		3 days ago	
	Music		3 days ago	
	OneDrive		3 days ago	
	OneDrive - University of Edinburgh		a day ago	
	Pictures		3 days ago	
	Roaming		7 months ago	
	Saved Games		3 days ago	
	Searches		2 days ago	
	Videos		3 days ago	



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15:04

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Support

Jupyter Notebook

```
[I 15:03:35.892 NotebookApp] Writing notebook server cookie secret to C:\Users\Vernon\AppData\Roaming\jupyter\runtime\notebook_cookie_secret
[I 15:03:37.251 NotebookApp] JupyterLab extension loaded from C:\Users\Vernon\Anaconda3\lib\site-packages\jupyterlab
[I 15:03:37.252 NotebookApp] JupyterLab application directory is C:\Users\Vernon\Anaconda3\share\jupyter\lab
[I 15:03:37.254 NotebookApp] Serving notebooks from local directory: C:\Users\Vernon
[I 15:03:37.255 NotebookApp] The Jupyter Notebook is running at:
[I 15:03:37.255 NotebookApp] http://localhost:8888/?token=7bedd63468b38bb89aaa408265ba4b3631d0649ac328d20c
[I 15:03:37.255 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 15:03:37.299 NotebookApp]

To access the notebook, open this file in a browser:
  file:///C:/Users/Vernon/AppData/Roaming/jupyter/runtime/nbserver-14472-open.html
Or copy and paste one of these URLs:
  http://localhost:8888/?token=7bedd63468b38bb89aaa408265ba4b3631d0649ac328d20c
```



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Logout

Files Running Clusters

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		Name	Last Modified	File size
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<input type="checkbox"/>	3D Objects		3 days ago	
<input type="checkbox"/>	Anaconda3		24 minutes ago	
<input type="checkbox"/>	Contacts		3 days ago	
<input type="checkbox"/>	Desktop		a day ago	
<input type="checkbox"/>	Documents		24 minutes ago	
<input type="checkbox"/>	Downloads		38 minutes ago	
<input type="checkbox"/>	Favorites		3 days ago	
<input type="checkbox"/>	Links		3 days ago	
<input type="checkbox"/>	Music		3 days ago	
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<input type="checkbox"/>	OneDrive - University of Edinburgh		a day ago	
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<input type="checkbox"/>	Roaming		7 months ago	
<input type="checkbox"/>	Saved Games		3 days ago	



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<input type="checkbox"/> Anaconda3				
<input type="checkbox"/> Contacts				
<input type="checkbox"/> Desktop				26 minutes ago
<input type="checkbox"/> Documents				
<input type="checkbox"/> Downloads				39 minutes ago
<input type="checkbox"/> Favorites				3 days ago
<input type="checkbox"/> Links				3 days ago
<input type="checkbox"/> Music				3 days ago
<input type="checkbox"/> OneDrive				3 days ago
<input type="checkbox"/> OneDrive - University of Edinburgh				a day ago
<input type="checkbox"/> Pictures				3 days ago
<input type="checkbox"/> Roaming				7 months ago
<input type="checkbox"/> Saved Games				3 days ago



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localhost:8888/notebooks/Untitled.ipynb?kernel_name=python3



jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)



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File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3



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Sunday

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You MUST have it installed on your machine!



Stata is a complete, integrated statistical software package that provides everything you need for data science.

Getting Started

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kylebarron/stata_kernel
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stata_kernel

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Jupyter Notebook Example

Using Jupyter

Using the Stata Kernel

Comparison with IPyStata

Contributing

Addendum

License

other necessary dependencies will be downloaded automatically.

Windows-specific steps

In order to let `stata_kernel` talk to Stata, you need to [link the Stata Automation library](#):

1. In the installation directory (most likely `c:\Program Files (x86)\Stata15` or similar), right-click on the Stata executable, for example, `StataSE.exe`. Choose `Create Shortcut`. Placing it on the Desktop is fine.
2. Right-click on the newly created `Shortcut to StataSE.exe`, choose `Property`, and append `/Register` to the end of the Target field. So if the target is currently `"C:\Program Files\Stata15\StataSE.exe"`, change it to `"C:\Program Files\Stata15\StataSE.exe" /Register`. Click `OK`.
3. Right-click on the updated `Shortcut to StataSE.exe`; choose `Run as administrator`.

Table of contents

Prerequisites

Package Install

Upgrading

Using

Package Install

To install the kernel, from a terminal or command prompt run:

```
pip install stata_kernel
python -m stata_kernel.install
```

If Python 2 is the default version of Python on your system, you may need to use

```
pip3 install stata_kernel
python3 -m stata_kernel.install
```



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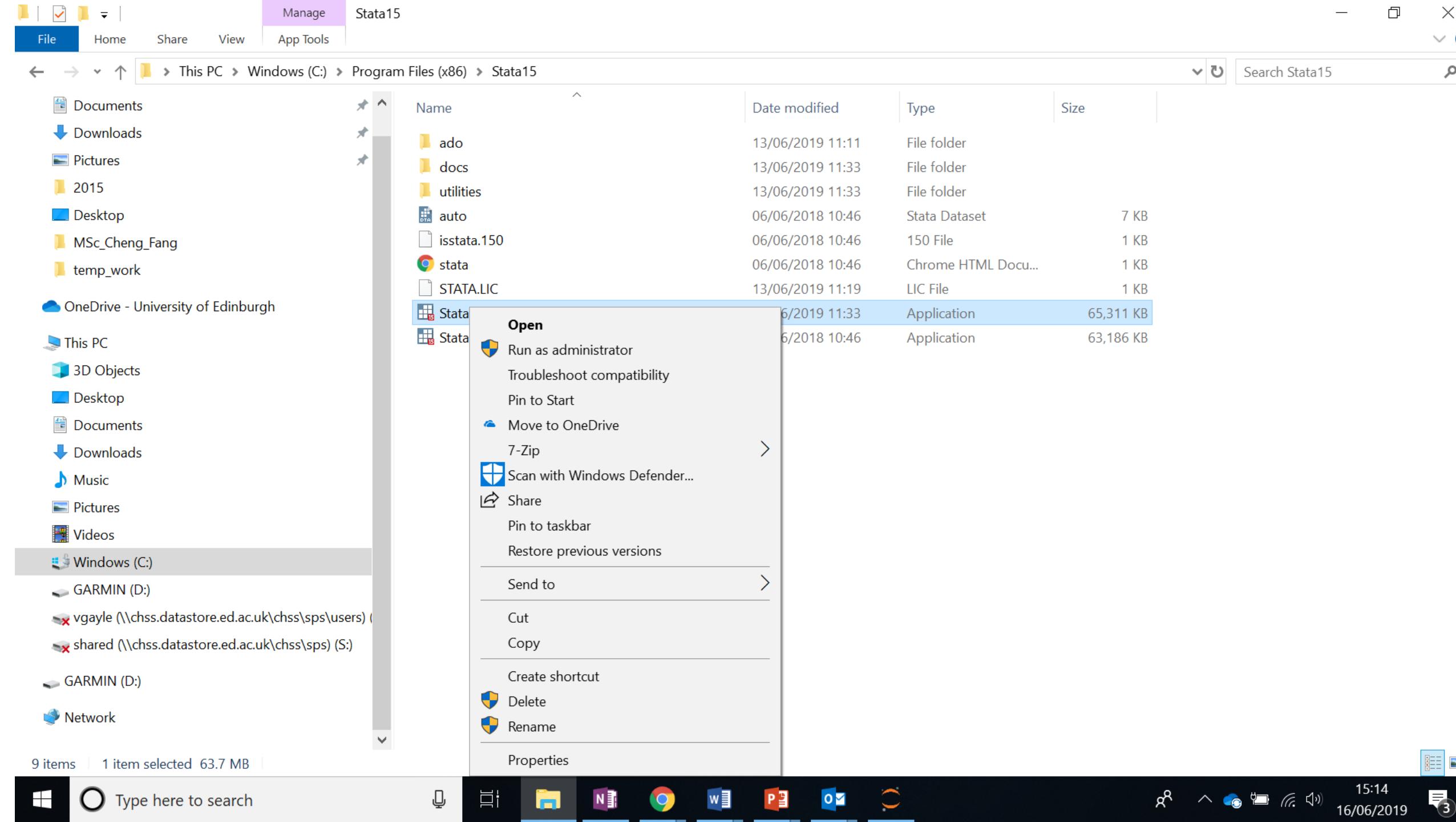
	Name	Date modified	Type	Size
	ado	13/06/2019 11:11	File folder	
	docs	13/06/2019 11:33	File folder	
	utilities	13/06/2019 11:33	File folder	
	auto	06/06/2018 10:46	Stata Dataset	7 KB
	isstata.150	06/06/2018 10:46	150 File	1 KB
	stata	06/06/2018 10:46	Chrome HTML Docu...	1 KB
	STATA.LIC	13/06/2019 11:19	LIC File	1 KB
	StataSE-64	13/06/2019 11:33	Application	65,311 KB
	StataSE-64_old	06/06/2018 10:46	Application	63,186 KB

9 items



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Name Date modified Type Size

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- docs 13/06/2019 11:33 File folder
- utilities 13/06/2019 11:33 File folder
- auto 06/06/2018 10:46 Stata Dataset 7 KB
- isstata.150 06/06/2018 10:46 150 File 1 KB
- stata 06/06/2018 10:46 Chrome HTML Docu... 1 KB
- STATA.LIC 13/06/2019 11:19 LIC File 1 KB

StataSE-64

Open

- Run as administrator
- Troubleshoot compatibility
- Pin to Start
- Move to OneDrive
- 7-Zip
- Scan with Windows Defender...
- Share
- Pin to taskbar
- Restore previous versions

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- Cut
- Copy

Create shortcut

Delete

Rename

Properties

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utilities	13/06/2019 11:33	File folder	
auto	06/06/2018 10:46	Stata Dataset	7 KB
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stata	06/06/2018 10:46	Chrome HTML Docu...	1 KB
STATA.LIC			1 KB
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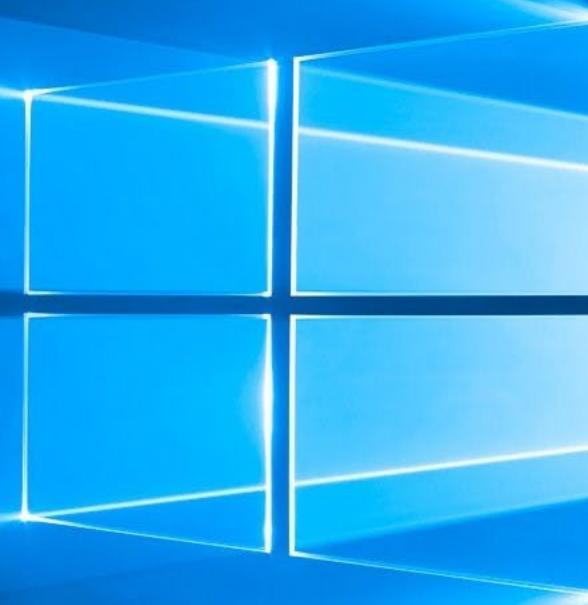
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- Create shortcut
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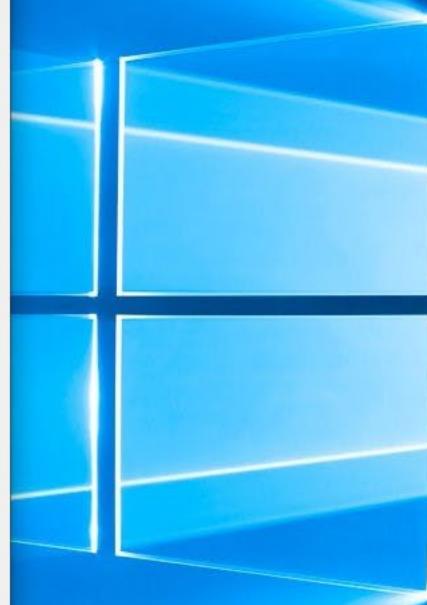
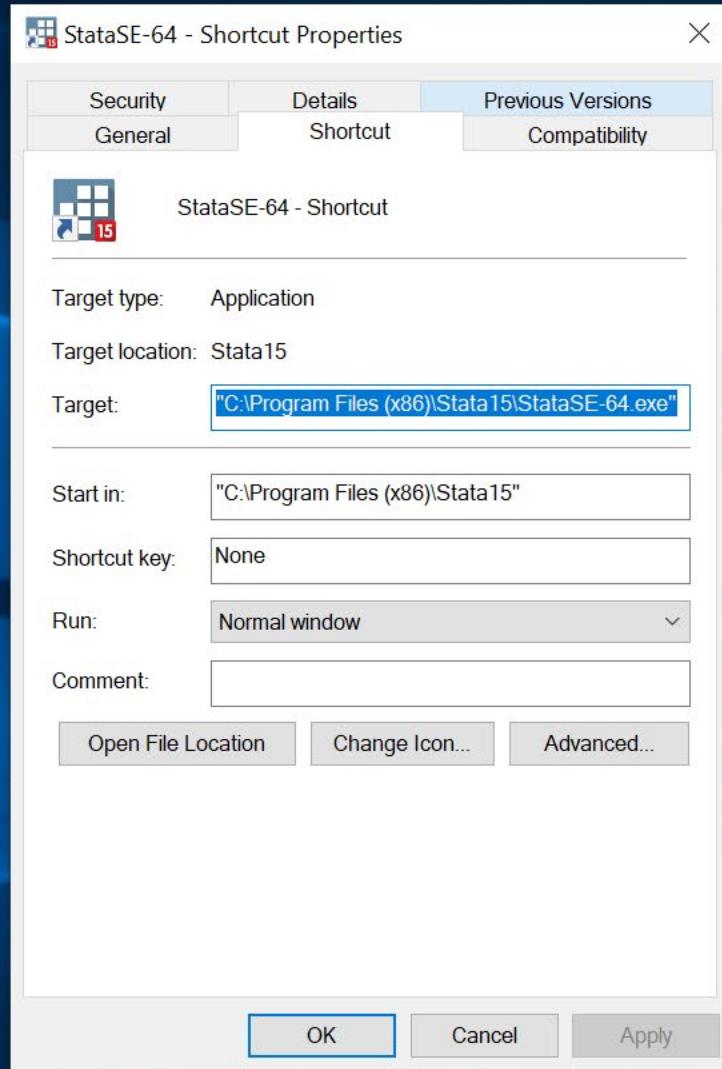
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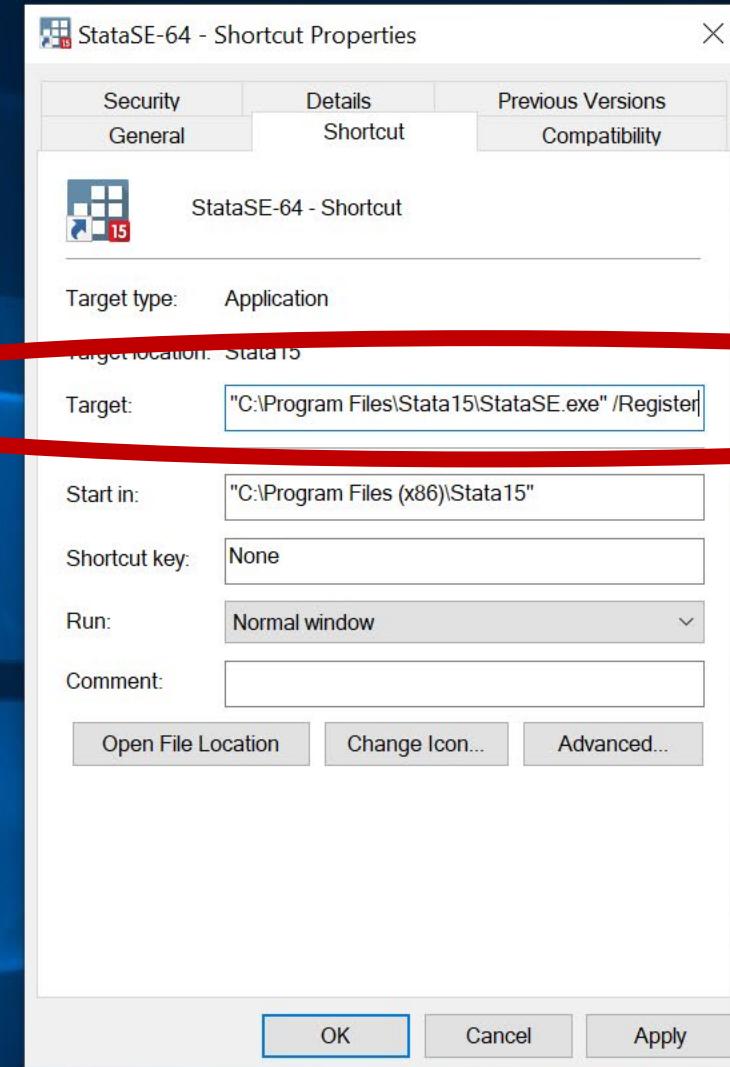
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StataSE-64 -
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- Move to OneDrive
- Open file location
- Run as administrator**
- Troubleshoot compatibility
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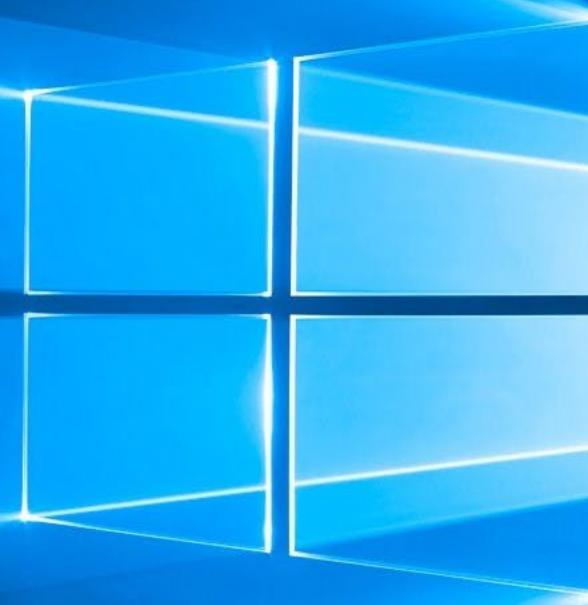
- Restore previous versions

- Send to >

- Cut
- Copy

- Create shortcut
- Delete
- Rename

- Properties



Type here to search



15:27

16/06/2019

3



Recycle Bin



Google
Chrome



Endnote8
Windows



Support



Short

Open

- Move to OneDrive
- Open file location
- Run as administrator**
- Troubleshoot compatibility
- Pin to Start
- 7-Zip
- Scan with Windows Defender...
- Pin to taskbar

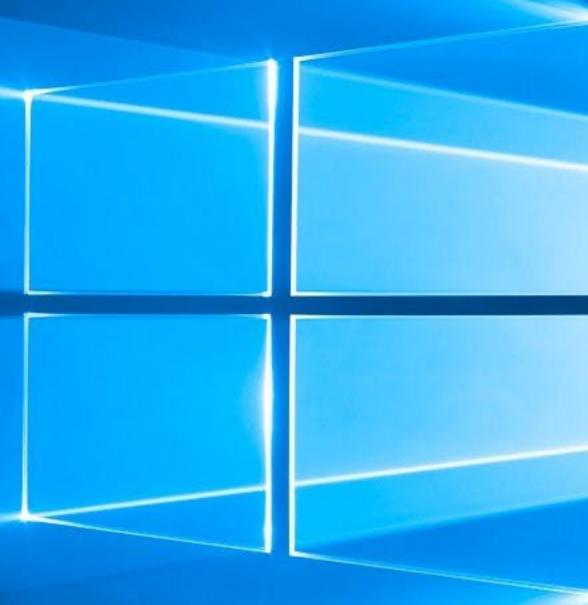
- Restore previous versions

- Send to >

- Cut
- Copy

- Create shortcut
- Delete
- Rename

- Properties



Type here to search



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https://kylebarron.dev/stata_kernel/getting_started/



Getting Started

Q Search



kylebarron/stata_kernel
90 Stars · 16 Forks

All Apps Documents Settings Web More

Feedback ...

Best match

Command Prompt
App

Apps

Anaconda Prompt

Settings

Replace Command Prompt with
Windows PowerShell when using

Search the web

cmd - See web results

Command Prompt

App



- Open
- Run as administrator
- Open file location
- Pin to Start
- Pin to taskbar

Right-click on the Stata
top is fine.

end `/Register` to the
.exe", change it to

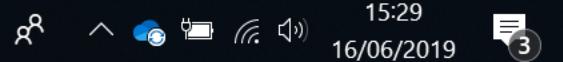
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Prerequisites

Package Install

Upgrading

Using



cmd

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Recycle Bin



Google
Chrome



Endnote8
Windows



Support

Command Prompt

Microsoft Windows [Version 10.0.17763.557]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Vernon>



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Recycle Bin

All Apps Documents Settings Web More ▾

Feedback ...

Best match

Anaconda Powershell Prompt App

Apps

Anaconda Prompt >

Anaconda Navigator >

Search the web

ana - See web results >

anagram solver >

anaemia >

anaconda >

analytics >

Documents (4+)

Folders (3+)

ana

Anaconda Powershell Prompt

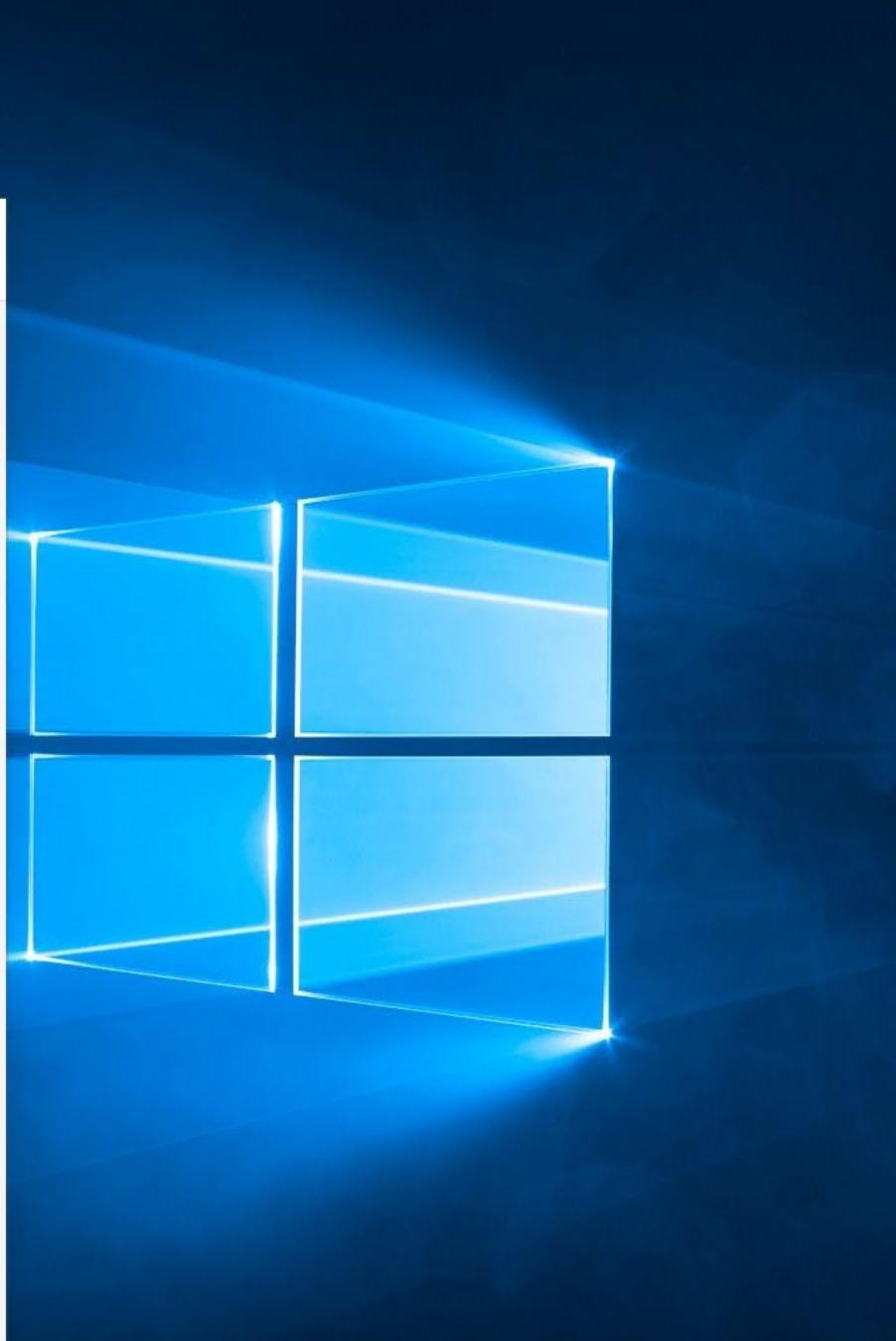
App

Open

Run as Administrator

Run ISE as Administrator

Windows PowerShell ISE





Recycle Bin



Google
Chrome



Endnote8
Windows



Support

Anaconda Powershell Prompt

(base) PS C:\Users\Vernon>



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Recycle Bin



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Endnote8
Windows



Support

Anaconda Powershell Prompt

```
(base) PS C:\Users\Vernon> pip install stata_kernel
```



Type here to search



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3



Recycle Bin

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ChromeEndnote8
Windows

Support

```
[Anaconda Powershell Prompt] stata_kernel) (0.4.2)
Requirement already satisfied: defusedxml in c:\users\vernon\anaconda3\lib\site-packages (from nbconvert->jupyter>=1.0.0->stata_kernel) (0.5.0)
Requirement already satisfied: terminado>=0.8.1 in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.8.1)
Requirement already satisfied: prometheus-client in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.6.0)
Requirement already satisfied: Send2Trash in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (1.5.0)
Requirement already satisfied: ipython-genutils in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.2.0)
Requirement already satisfied: widgetsnbextension~=3.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from ipywidgets->jupyter>=1.0.0->stata_kernel) (3.4.2)
Requirement already satisfied: wcwidth in c:\users\vernon\anaconda3\lib\site-packages (from prompt-toolkit<2.1.0,>=2.0.0->IPython>=6.5.0->stata_kernel) (0.1.7)
Requirement already satisfied: parso>=0.3.0 in c:\users\vernon\anaconda3\lib\site-packages (from jedi>=0.10->IPython>=6.5.0->stata_kernel) (0.3.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\vernon\anaconda3\lib\site-packages (from jinja2->nbconvert->jupyter>=1.0.0->stata_kernel) (1.1.1)
Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in c:\users\vernon\anaconda3\lib\site-packages (from nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (3.0.1)
Requirement already satisfied: webencodings in c:\users\vernon\anaconda3\lib\site-packages (from bleach->nbconvert->jupyter>=1.0.0->stata_kernel) (0.5.1)
Requirement already satisfied: attrs>=17.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (19.1.0)
Requirement already satisfied: pyrsistent>=0.14.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (0.14.11)
Installing collected packages: ptyprocess, pexpect, stata-kernel
Successfully installed pexpect-4.7.0 ptyprocess-0.6.0 stata-kernel-1.10.5
(base) PS C:\Users\VerNon>
```



Type here to search

15:40
16/06/2019



Recycle Bin



Google Chrome

Endnote8
Windows

Support

Anaconda Powershell Prompt

```
stata_kernel) (0.4.2)
Requirement already satisfied: defusedxml in c:\users\vernon\anaconda3\lib\site-packages (from nbconvert->jupyter>=1.0.0->stata_kernel) (0.5.0)
Requirement already satisfied: terminado>=0.8.1 in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.8.1)
Requirement already satisfied: prometheus-client in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.6.0)
Requirement already satisfied: Send2Trash in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (1.5.0)
Requirement already satisfied: ipython-genutils in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.2.0)
Requirement already satisfied: widgetsnbextension~=3.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from ipywidgets->jupyter>=1.0.0->stata_kernel) (3.4.2)
Requirement already satisfied: wcwidth in c:\users\vernon\anaconda3\lib\site-packages (from prompt-toolkit<2.1.0,>=2.0.0->IPython>=6.5.0->stata_kernel) (0.1.7)
Requirement already satisfied: parso>=0.3.0 in c:\users\vernon\anaconda3\lib\site-packages (from jedi>=0.10->IPython>=6.5.0->stata_kernel) (0.3.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\vernon\anaconda3\lib\site-packages (from jinja2->nbconvert->jupyter>=1.0.0->stata_kernel) (1.1.1)
Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in c:\users\vernon\anaconda3\lib\site-packages (from nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (3.0.1)
Requirement already satisfied: webencodings in c:\users\vernon\anaconda3\lib\site-packages (from bleach->nbconvert->jupyter>=1.0.0->stata_kernel) (0.5.1)
Requirement already satisfied: attrs>=17.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (19.1.0)
Requirement already satisfied: pyrsistent>=0.14.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (0.14.11)
Installing collected packages: ptyprocess, pexpect, stata-kernel
Successfully installed pexpect-4.7.0 ptyprocess-0.6.0 stata-kernel-1.10.5
(base) PS C:\Users\Vernon> python -m stata_kernel.install
```



Type here to search



15:41

16/06/2019





Recycle Bin

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Windows

Support

```
[Anaconda Powershell Prompt] Requirement already satisfied: prometheus-client in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.6.0)
Requirement already satisfied: Send2Trash in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (1.5.0)
Requirement already satisfied: ipython-genutils in c:\users\vernon\anaconda3\lib\site-packages (from notebook->jupyter>=1.0.0->stata_kernel) (0.2.0)
Requirement already satisfied: widgetsnbextension~=3.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from ipywidgets->jupyter>=1.0.0->stata_kernel) (3.4.2)
Requirement already satisfied: wcwidth in c:\users\vernon\anaconda3\lib\site-packages (from prompt-toolkit<2.1.0,>=2.0.0->IPython>=6.5.0->stata_kernel) (0.1.7)
Requirement already satisfied: parso>=0.3.0 in c:\users\vernon\anaconda3\lib\site-packages (from jedi>=0.10->IPython>=6.5.0->stata_kernel) (0.3.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\vernon\anaconda3\lib\site-packages (from jinja2->nbconvert->jupyter>=1.0.0->stata_kernel) (1.1.1)
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Requirement already satisfied: webencodings in c:\users\vernon\anaconda3\lib\site-packages (from bleach->nbconvert->jupyter>=1.0.0->stata_kernel) (0.5.1)
Requirement already satisfied: attrs>=17.4.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (19.1.0)
Requirement already satisfied: pyrsistent>=0.14.0 in c:\users\vernon\anaconda3\lib\site-packages (from jsonschema!=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter>=1.0.0->stata_kernel) (0.14.11)
Installing collected packages: ptyprocess, pexpect, stata-kernel
Successfully installed pexpect-4.7.0 ptyprocess-0.6.0 stata-kernel-1.10.5
(base) PS C:\Users\Vernon> python -m stata_kernel.install
Installing Jupyter kernel spec
C:\Users\Vernon\Anaconda3\lib\site-packages\stata_kernel\install.py:34: DeprecationWarning: replace is ignored. Installing a kernelspec always replaces an existing installation
    td, 'stata', user=user, replace=True, prefix=prefix)
(base) PS C:\Users\Vernon>
```



Type here to search

15:42
16/06/2019



Quit

Logout

Files Running Clusters

Select items to perform actions on them.

<input type="checkbox"/>	0	<input type="button" value="▼"/>	<input type="button" value="Upload"/>
<input type="checkbox"/>	<input type="button" value="📁"/>	/	<input type="button" value="New ▾"/>
<input type="checkbox"/>	<input type="button" value="📁"/>	3D Objects	
<input type="checkbox"/>	<input type="button" value="📁"/>	Anaconda3	
<input type="checkbox"/>	<input type="button" value="📁"/>	Contacts	
<input type="checkbox"/>	<input type="button" value="📁"/>	Desktop	
<input type="checkbox"/>	<input type="button" value="📁"/>	Documents	
<input type="checkbox"/>	<input type="button" value="📁"/>	Downloads	an hour ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Favorites	3 days ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Links	3 days ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Music	3 days ago
<input type="checkbox"/>	<input type="button" value="📁"/>	OneDrive	3 days ago
<input type="checkbox"/>	<input type="button" value="📁"/>	OneDrive - University of Edinburgh	a day ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Pictures	3 days ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Roaming	7 months ago
<input type="checkbox"/>	<input type="button" value="📁"/>	Saved Games	3 days ago

Name

Upload New ▾

Notebook:

Python 3

Stata

Other:

Text File

Folder

Terminal

an hour ago

 Jupyter Untitled2 Last Checkpoint: a few seconds ago (unsaved changes)

STATA

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | Stata

In [1]:
`sysuse auto.dta,
codebook, compact`

(1978 Automobile Data)

Variable	Obs	Unique	Mean	Min	Max	Label
<hr/>						
<hr/>						
-						
make	74	74	.	.	.	Make and Model
price	74	74	6165.257	3291	15906	Price
mpg	74	21	21.2973	12	41	Mileage (mpg)
rep78	69	5	3.405797	1	5	Repair Record 1978
headroom	74	8	2.993243	1.5	5	Headroom (in.)
trunk	74	18	13.75676	5	23	Trunk space (cu. ft.)
weight	74	64	3019.459	1760	4840	Weight (lbs.)
length	74	47	187.9324	142	233	Length (in.)
turn	74	18	39.64865	31	51	Turn Circle (ft.)
displacement	74	31	197.2973	79	425	Displacement (cu. in.)
gear_ratio	74	36	3.014865	2.19	3.89	Gear Ratio
foreign	74	2	.2972973	0	1	Car type
<hr/>						
<hr/>						
-						

Installing *R*

If you ALREADY have R installed on your machine you can skip this section



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The R Project for Statistical Computing

Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred CRAN mirror.

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- [R version 3.6.1 \(Action of the Toes\) prerelease versions](#) will appear starting Tuesday 2019-06-25. Final release is scheduled for Friday 2019-07-05.
- [R version 3.6.0 \(Planting of a Tree\)](#) has been released on 2019-04-26.
- [useR! 2020](#) will take place in St. Louis, Missouri, USA.
- [R version 3.5.3 \(Great Truth\)](#) has been released on 2019-03-11.
- The R Foundation Conference Committee has released a [call for proposals](#) to host useR! 2020 in North America.
- You can now support the R Foundation with a renewable subscription as a [supporting member](#)
- The R Foundation has been awarded the Personality/Organization of the year 2018 award by the professional association of German market and social researchers.

News via Twitter



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http://ftp.yzu.edu.tw/CRAN/	Department of Computer Science and Engineering, Yuan Ze University
http://cran.csie.ntu.edu.tw/	National Taiwan University, Taipei
Thailand	Prince of Songkla University, Hatyai
http://mirrors.psu.ac.th/pub/cran/	
Turkey	Pamukkale University, Denizli
https://cran.pau.edu.tr/	Pamukkale University, Denizli
http://cran.pau.edu.tr/	Middle East Technical University Northern Cyprus Campus, Mersin
https://cran.ncc.metu.edu.tr/	Middle East Technical University Northern Cyprus Campus, Mersin
http://cran.ncc.metu.edu.tr/	
UK	University of Bristol
https://www.stats.bris.ac.uk/R/	University of Bristol
http://www.stats.bris.ac.uk/R/	Imperial College London
https://cran.ma.imperial.ac.uk/	Imperial College London
http://cran.ma.imperial.ac.uk/	
USA	University of California, Berkeley, CA
https://cran.cnr.berkeley.edu/	University of California, Berkeley, CA
http://cran.cnr.berkeley.edu/	Iowa State University, Ames, IA
https://mirror.las.iastate.edu/CRAN/	Iowa State University, Ames, IA
http://mirror.las.iastate.edu/CRAN/	Indiana University
https://ftp.ussg.iu.edu/CRAN/	Indiana University
http://ftp.ussg.iu.edu/CRAN/	University of Kansas, Lawrence, KS
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https://cran.case.edu/	



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The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2019-04-26, Planting of a Tree) [R-3.6.0.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.





R for Windows



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Subdirectories:

[base](#)

Binaries for base distribution. This is what you want to [install R for the first time](#).

[contrib](#)

Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

[old contrib](#)

Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).

[Rtools](#)

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.



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R for Windows

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[old contrib](#)

Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).

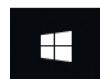
[Rtools](#)

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

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You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.



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Recycle Bin



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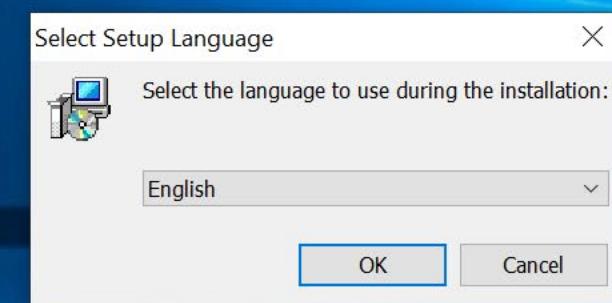
Endnote8
Windows



Support



StataSE-64 -
Shortcut



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Recycle Bin



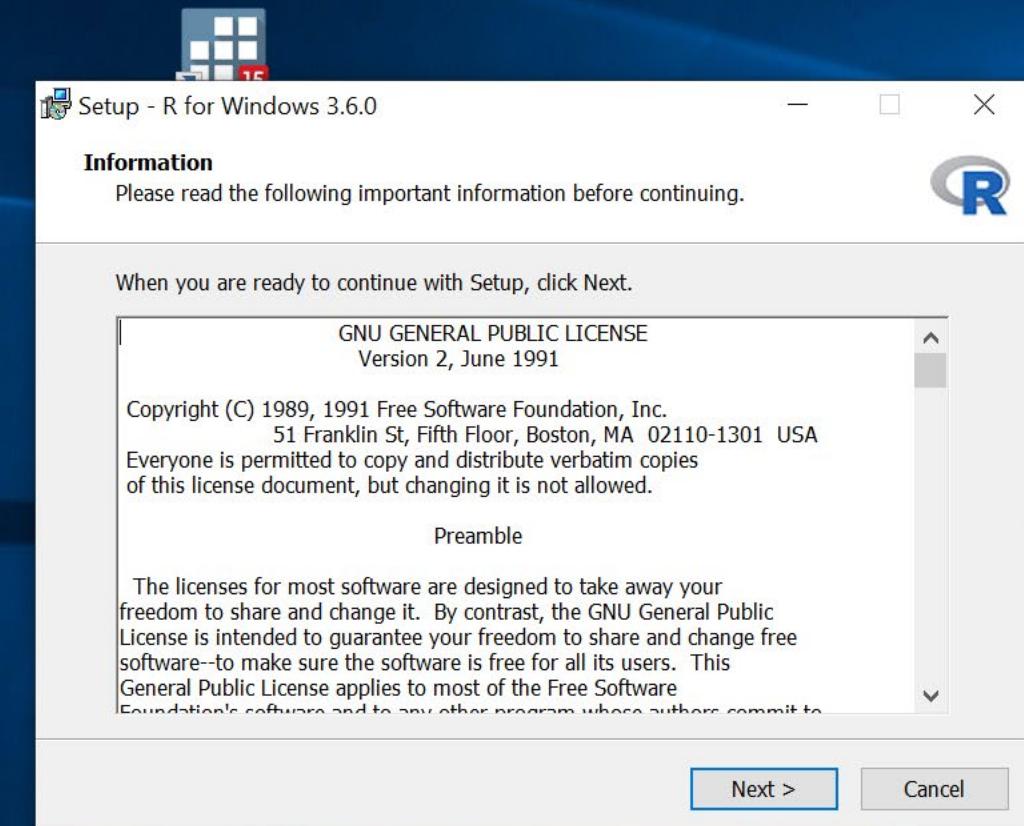
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Chrome



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Windows



Support



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3



Recycle Bin



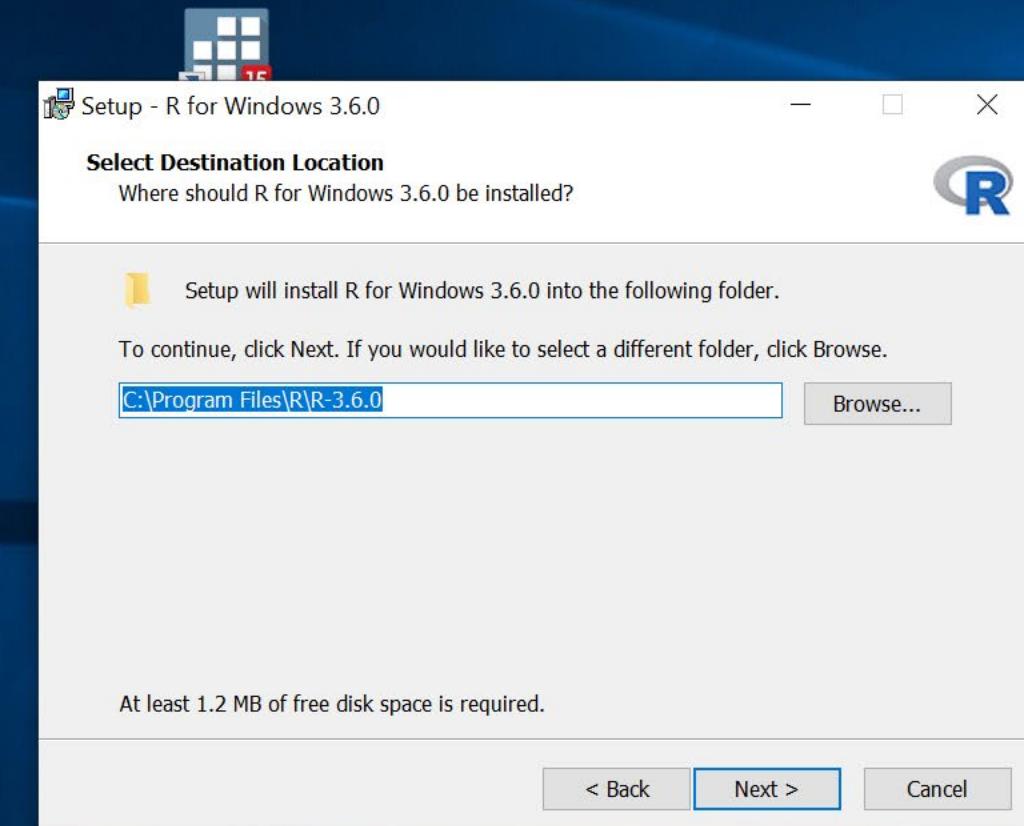
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Chrome



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Windows



Support





Recycle Bin



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Windows



Support



StataSE-64 -
Shortcut



Setup - R for Windows 3.6.0

Select Components

Which components should be installed?



Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

User installation

<input checked="" type="checkbox"/> Core Files	85.9 MB
<input checked="" type="checkbox"/> 32-bit Files	48.6 MB
<input checked="" type="checkbox"/> 64-bit Files	50.3 MB
<input checked="" type="checkbox"/> Message translations	7.3 MB

Current selection requires at least 192.9 MB of disk space.

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Next >

Cancel



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3



Recycle Bin



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Windows



Support



StataSE-64 -
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Setup - R for Windows 3.6.0

Startup options

Do you want to customize the startup options?

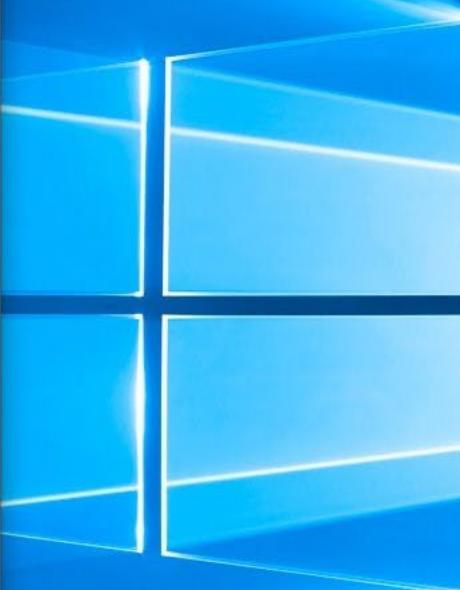
Please specify yes or no, then click Next.

- Yes (customized startup)
- No (accept defaults)

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Next >

Cancel



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16/06/2019

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Recycle Bin



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Windows



Support



StataSE-64 -
Shortcut



Setup - R for Windows 3.6.0

Select Start Menu Folder

Where should Setup place the program's shortcuts?



Setup will create the program's shortcuts in the following Start Menu folder.

To continue, click Next. If you would like to select a different folder, click Browse.



R

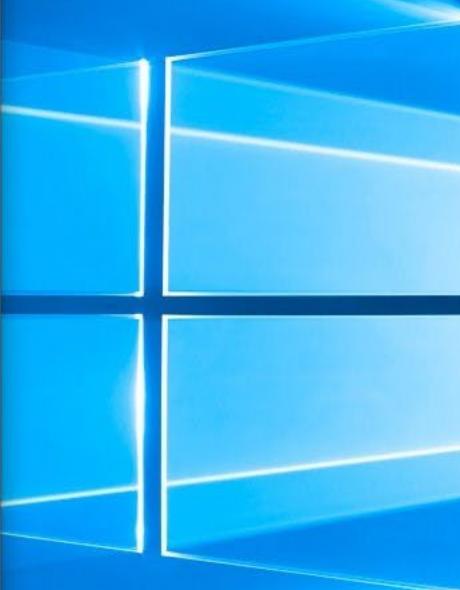
Browse...

Don't create a Start Menu folder

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Cancel



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Support



StataSE-64 -
Shortcut



Setup - R for Windows 3.6.0

Select Additional Tasks

Which additional tasks should be performed?



Select the additional tasks you would like Setup to perform while installing R for Windows 3.6.0, then click Next.

Additional shortcuts:

- Create a desktop shortcut
- Create a Quick Launch shortcut

Registry entries:

- Save version number in registry
- Associate R with .RData files

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Cancel



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Support



StataSE-64 -
Shortcut

Setup - R for Windows 3.6.0



Completing the R for Windows 3.6.0 Setup Wizard

Setup has finished installing R for Windows 3.6.0 on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

Finish



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File Home Share View Manage bin

← → ↑ This PC > Windows (C:) > Program Files > R > R-3.6.0 > bin > Search bin

Name	Date modified	Type	Size
i386	16/06/2019 16:20	File folder	
x64	16/06/2019 16:20	File folder	
config.sh	26/04/2019 10:47	SH File	12 KB
R	26/04/2019 10:51	Application	87 KB
Rscript	26/04/2019 10:51	Application	87 KB

downloads_web
jupyter_notebooks_back_ups
m_drive
MIO_KeyVar_Refs.Data
photographs
Pictures
spiegelhalter_football
vernon_gayle_notebook

This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C):
GARMIN (D):
vgayle (\chss.datastore.ed.ac.uk\chss\sps\users) (S:
shared (\chss.datastore.ed.ac.uk\chss\sps) (S:
GARMIN (D):
Network

5 items | 1 item selected 86.5 KB

Type here to search

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3



This PC > Windows (C:) > Program Files > R > R-3.6.0 > bin				
Search bin				
downloads_web	Name	Date modified	Type	Size
jupyter_notebooks_back_ups	i386	16/06/2019 16:20	File folder	
m_drive	x64	16/06/2019 16:20	File folder	
MIO_KeyVar_Refs.Data	config.sh	26/04/2019 10:47	SH File	12 KB
photographs	R	26/04/2019 10:51	Application	87 KB
Pictures	Rscript	26/04/2019 10:51		87 KB
spiegelhalter_football	Open			
vernongayle_notebook	Run as administrator			
This PC	Troubleshoot compatibility			
3D Objects	Pin to Start			
Desktop	Move to OneDrive			
Documents	7-Zip			
Downloads	>			
Music	Scan with Windows Defender...			
Pictures	Share			
Videos	Pin to taskbar			
Windows (C:)	Restore previous versions			
GARMIN (D:)	Send to			
vgayle (\chss.datastore.ed.ac.uk\chss\sps\users) (S:)	>			
shared (\chss.datastore.ed.ac.uk\chss\sps) (S:)	Cut			
GARMIN (D:)	Copy			
Network	Create shortcut			
	Delete			
	Rename			
	Properties			

5 items | 1 item selected 86.5 KB |



Type here to search



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16/06/2019



→ ↑ This PC > Windows (C:) > Program Files > R > R-3.6.0 > bin

Search bin

Name	Date modified	Type	Size
i386	16/06/2019 16:20	File folder	
x64	16/06/2019 16:20	File folder	
config.sh	26/04/2019 10:47	SH File	12 KB
R	26/04/2019 10:51	Application	87 KB
Rscript	26/04/2019 10:51	Application	87 KB

Shortcut

! Windows can't create a shortcut here.
Do you want the shortcut to be placed on the desktop instead?

Yes No

- downloads_web
- jupyter_notebooks_back_ups
- m_drive
- MIO_KeyVar_Ref.Dat
- photographs
- Pictures
- spiegelhalter_football
- vernon_gayle_notebook

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

GARMIN (D:)

vgayle (\chss.datastore.ed.ac.uk\chss\sps\users)

shared (\chss.datastore.ed.ac.uk\chss\sps) (S:)

GARMIN (D:)

Network

ms | 1 item selected 86.5 KB



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Windows



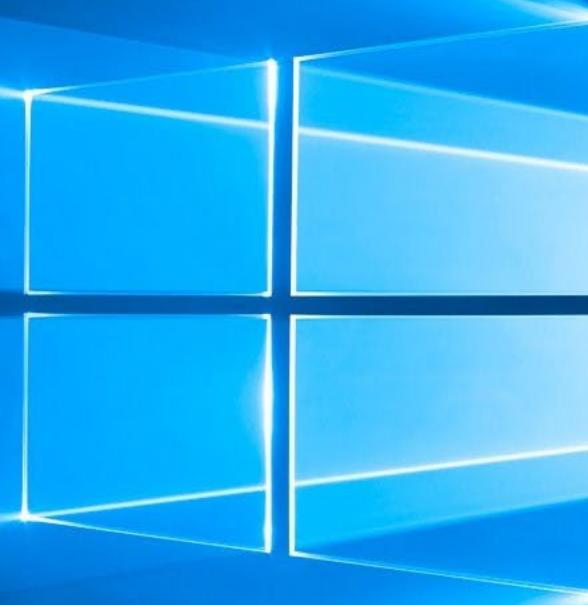
Support



StataSE-64 -
Shortcut



R - Shortcut



Type here to search



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Installing the *R Kernel*

<https://anaconda.org/r/r-irkernel>



Recycle Bin



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Windows



Support

Anaconda Powershell Prompt

```
(base) PS C:\Users\Vernon> conda install -c r r-irkernel=0.7.1
```



Type here to search



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Support

Anaconda Powershell Prompt

```
m2w64-pcre          pkgs/msys2/win-64::m2w64-pcre-8.38-2
m2w64-speex         pkgs/msys2/win-64::m2w64-speex-1.2rc2-3
m2w64-speexdsp     pkgs/msys2/win-64::m2w64-speexdsp-1.2rc3-3
m2w64-tcl           pkgs/msys2/win-64::m2w64-tcl-8.6.5-3
m2w64-tk            pkgs/msys2/win-64::m2w64-tk-8.6.5-3
m2w64-tktable      pkgs/msys2/win-64::m2w64-tktable-2.10-5
m2w64-wineditline   pkgs/msys2/win-64::m2w64-wineditline-2.101-5
m2w64-xz            pkgs/msys2/win-64::m2w64-xz-5.2.2-2
m2w64-zlib          pkgs/msys2/win-64::m2w64-zlib-1.2.8-10
r-base              r/win-64::r-base-3.4.1-0
r-crayon            r/win-64::r-crayon-1.3.2-r3.4.1_0
r-digest             r/win-64::r-digest-0.6.12-r3.4.1_0
r-evaluate           r/win-64::r-evaluate-0.10-r3.4.1_0
r-irdisplay          r/win-64::r-irdisplay-0.4.4-r3.4.1_0
r-irkernel           r/win-64::r-irkernel-0.7.1-r3.4.1_0
r-jsonlite          r/win-64::r-jsonlite-1.5-r3.4.1_0
r-magrittr           r/win-64::r-magrittr-1.5-r3.4.1_2
r-pbdzmq             r/win-64::r-pbdzmq-0.2_6-r3.4.1_0
r-r6                 r/win-64::r-r6-2.2.1-r3.4.1_0
r-repr               r/win-64::r-repr-0.10-r3.4.1_0
r-stringi             r/win-64::r-stringi-1.1.5-r3.4.1_0
r-stringr             r/win-64::r-stringr-1.2.0-r3.4.1_0
r-uuid               r/win-64::r-uuid-0.1_2-r3.4.1_0

The following packages will be UPDATED:

  conda                4.6.11-py37_0 --> 4.6.14-py37_0

Proceed ([y]/n)?
```



Type here to search



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Support

Anaconda Powershell Prompt

_r-mutex-1.0.0	3 KB	#####	100%
m2w64-libxml2-2.9.3	2.1 MB	#####	100%
r-jsonlite-1.5	1.0 MB	#####	100%
m2w64-wineditline-2.	46 KB	#####	100%
m2w64-libsndfile-1.0	549 KB	#####	100%
r-digest-0.6.12	129 KB	#####	100%
r-magrittr-1.5	172 KB	#####	100%
m2w64-tktable-2.10	112 KB	#####	100%
r-stringr-1.2.0	153 KB	#####	100%
m2w64-pcre-8.38	1.2 MB	#####	100%
m2w64-flac-1.3.1	872 KB	#####	100%
r-evaluate-0.10	57 KB	#####	100%
r-base-3.4.1	39.2 MB	#####	100%
m2w64-mpfr-3.1.4	293 KB	#####	100%
r-uuid-0.1_2	26 KB	#####	100%
m2w64-xz-5.2.2	395 KB	#####	100%
r-repr-0.10	71 KB	#####	100%
m2w64-speex-1.2rc2	593 KB	#####	100%
m2w64-libtiff-4.0.6	1.2 MB	#####	100%
m2w64-gsl-2.1	2.4 MB	#####	100%
m2w64-libpng-1.6.21	399 KB	#####	100%
r-irkernel-0.7.1	123 KB	#####	100%
m2w64-tcl-8.6.5	3.9 MB	#####	100%
m2w64-bwidget-1.9.10	153 KB	#####	100%
r-r6-2.2.1	264 KB	#####	100%
m2w64-speexdsp-1.2rc	514 KB	#####	100%
Preparing transaction: done			
Verifying transaction: done			
Executing transaction: done			
(base) PS C:\Users\Vernon>			



Type here to search



16:01
16/06/2019

3



Untitled2

Home

x

+

-

□

X

localhost:8888/tree



Quit

Logout

Files Running Clusters

Select items to perform actions on them.

<input type="checkbox"/>	0	<input type="button" value="▼"/>	<input type="button" value="📁"/>	/
<input type="checkbox"/>	3D Objects			
<input type="checkbox"/>	Anaconda3			
<input type="checkbox"/>	Contacts			
<input type="checkbox"/>	Desktop			
<input type="checkbox"/>	Documents			
<input type="checkbox"/>	Downloads			2 hours ago
<input type="checkbox"/>	Favorites			3 days ago
<input type="checkbox"/>	Links			3 days ago
<input type="checkbox"/>	Music			3 days ago
<input type="checkbox"/>	OneDrive			3 days ago
<input type="checkbox"/>	OneDrive - University of Edinburgh			a day ago
<input type="checkbox"/>	Pictures			3 days ago
<input type="checkbox"/>	Roaming			7 months ago
<input type="checkbox"/>	Saved Games			3 days ago

Name Upload

Notebook:

Python 3

R

Stata

Other:

Text File

Folder

Terminal

2 hours ago

3 days ago

3 days ago

3 days ago

3 days ago

a day ago

3 days ago

3 days ago

7 months ago

3 days ago

Type here to search



16:01

16/06/2019

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jupyter Untitled5 Last Checkpoint: 2 minutes ago (unsaved changes)



Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | R O



```
In [2]: install.packages("foreign", repos='http://cran.us.r-project.org')
library(foreign)
```

package 'foreign' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
C:\Users\Vernon\AppData\Local\Temp\Rtmp0I2Fzo\downloaded_packages

Warning message:
"package 'foreign' was built under R version 3.4.4"

```
In [3]: test.stata <- read.dta("https://stats.idre.ucla.edu/stat/data/test.dta")
print(test.stata)
```

	make	model	mpg	weight	price
1	AMC	Concord	22	2930	4099
2	AMC	Pacer	17	3350	4749
3	AMC	Spirit	22	2640	3799
4	Buick	Century	20	3250	4816
5	Buick	Electra	15	4080	7827

```
In [ ]:
```

Acknowledgements

- Jupyter Project exists to develop open-source software, open-standards, and services for interactive computing across dozens of programming languages <https://jupyter.org/>
- Kyle Barron Stata Kernel https://kylebarron.dev/stata_kernel/
- Thomas Kluyver, Philipp Angerer, Jan Schulz
<https://github.com/IRkernel/IRkernel>

Useful Resources

Academic Description of Jupyter Notebooks

Kluyver, T., Ragan-Kelley, B., Pérez, F., Granger, B.E., Bussonnier, M., Frederic, J., Kelley, K., Hamrick, J.B., Grout, J., Corlay, S. and Ivanov, P., 2016, May. Jupyter Notebooks-a publishing format for reproducible computational workflows. In *ELPUB* (pp. 87-90).

<https://eprints.soton.ac.uk/403913/1/STAL9781614996491-0087.pdf>

Useful Resources

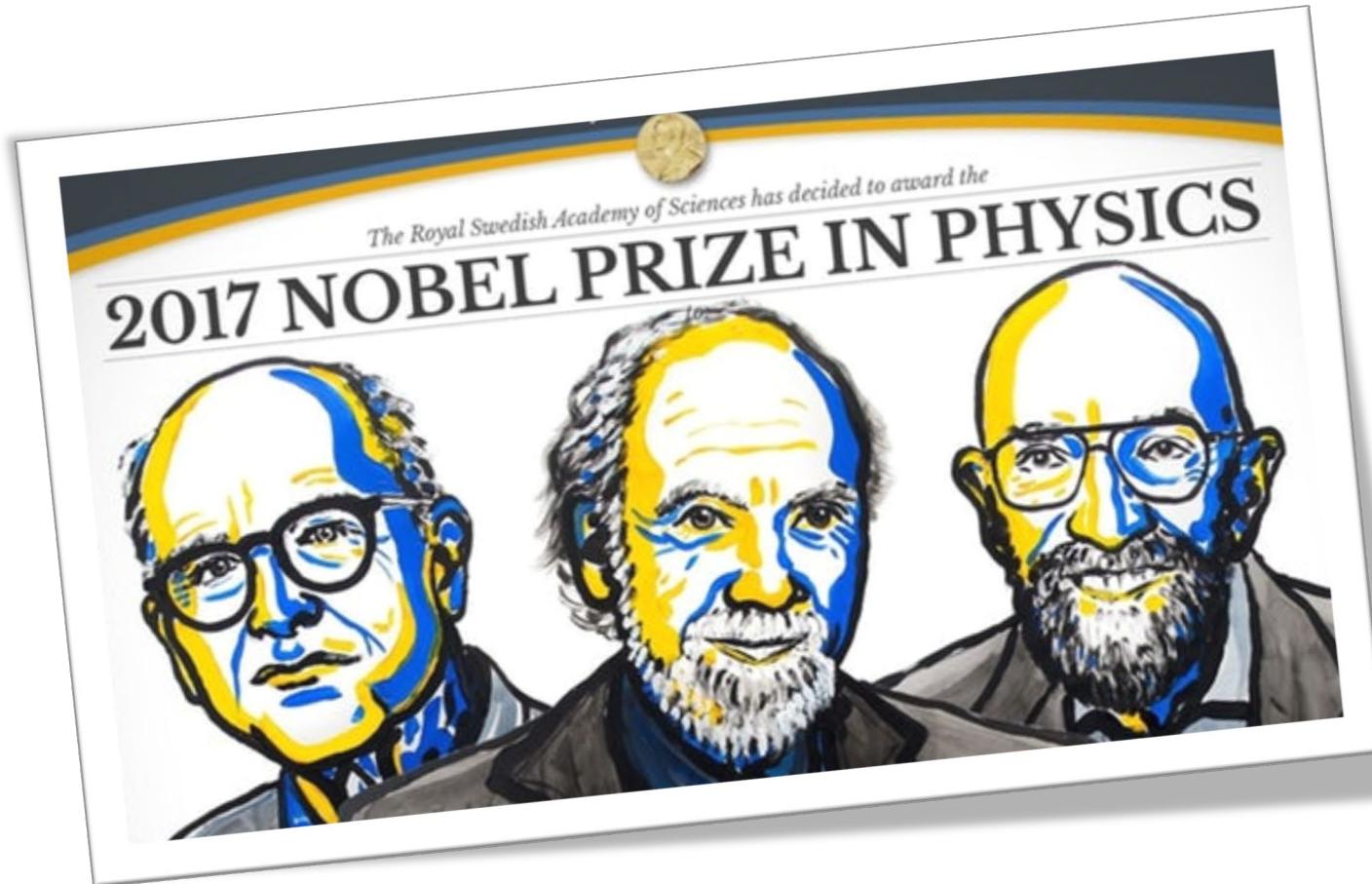
Social Science Paper Written in a Jupyter Notebook

Connelly, R. and Gayle, V., 2019. An investigation of social class inequalities in general cognitive ability in two British birth cohorts. *The British journal of Sociology*, 70(1), pp.90-108.

Jupyter Notebook:

<https://nbviewer.jupyter.org/github/RoxanneConnelly/Social-Class-Inequalities-in-General-Cognitive-Ability-in-Two-British-Birth-Cohorts/blob/master/JupiterNotebook%2020171122.ipynb>

Nobel Prize Winning Jupyter Notebook



<https://www.gw-openscience.org/tutorials/>

How to Install Jupyter Notebooks for Social Research

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Vernon Gayle, Roxanne Connelly, Christopher Playford, Kevin Ralston

June 2019

