# **PYTHON FOR BEGINNER**

Prepared by: Celeste Ng

Date: February, 2018

## Download the software (1)

(Source URL: <a href="https://www.python.org/about/gettingstarted/">https://www.python.org/about/gettingstarted/</a> )

 Installing Python is generally easy, and nowadays many Linux and UNIX distributions include a recent Python. Even some Windows computers (notably those from HP) now come with Python already installed. If you *do* need to install Python and aren't confident about the task you can find a few notes on the <u>BeginnersGuide/Download</u> wiki page, but installation is unremarkable on most platforms.

## Downloading Python -1

(Source URL: <a href="https://wiki.python.org/moin/BeginnersGuide/Download">https://wiki.python.org/moin/BeginnersGuide/Download</a> )

- Before you start, you will need Python on your computer, but you may not need to download it.
- First of all check that you don't already have Python installed by entering **python** in a command line window. If you see a response from a Python interpreter it will include a version number in its initial display. Generally any recent version will do, as Python makes every attempt to maintain backwards compatibility.
- If you need to install Python, you may as well download the most recent stable version. This is the one
  with the highest number that isn't marked as an alpha or beta release. Please see the <u>Python</u>
  <u>downloads</u> page for the most up to date versions of Python ...
- If you're running Windows: the most stable Windows downloads are available from the <u>Python for</u> <u>Windows</u> page.

### Source: <a href="https://www.python.org/downloads/release/python-364/">https://www.python.org/downloads/release/python-364/</a>

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Release Date. 2017-12-19	Other Platforms	Not t	ne OS you are looking operating systems ar	for? Python can be used	on			
Python 3.6.4 is the fourth maintenanc information.	License	View	View the full list of downloads.					
Major new features of Among the new major new features in PEP 468, Preserving Keyword Argu PEP 487, Simpler customization of PEP 495, Local Time Disambiguatio PEP 498, Literal String Formatting PEP 506, Adding A Secrets Module PEP 509, Add a private version to d PEP 515, Underscores in Numeric L PEP 519, Adding a file system path PEP 520, Preserving Class Attribute PEP 523, Adding a frame evaluatio PEP 524, Make os.urandom() block PEP 525, Asynchronous Generators	Python 3.6 are: ment Order class creation on To The Standard Libra lict .iterals protocol e Definition Order n API to CPython sing on Linux (during so s (provisional)	ary	u to 3.5					

# Downloading Python -2

(Source URL: <u>https://wiki.python.org/moin/BeginnersGuide/Download</u>)

- If you're running Windows XP: a complete guide to installing <u>ActivePython</u> is at <u>Python on XP: 7 Minutes</u> <u>To "Hello World!"</u>. <u>ShowMeDo</u> has <u>two videos</u> for downloading, installing and getting started with Python on a Windows XP machine - this series talks you through the Python, <u>ActivePython</u> and <u>SciPy</u> distributions.
- If you are using a Mac, see the <u>Python for Mac OS X</u> page. MacOS 10.2 (Jaguar), 10.3 (Panther), 10.4 (Tiger) and 10.5 (Leopard) already include various versions of Python.
- For Red Hat, install the python2 and python2-devel packages.
- For Debian or Ubuntu, install the python2.x and python2.x-dev packages.
- **For Gentoo**, install the '=python-2.x\*' ebuild (you may have to unmask it first).
- For other systems, or if you want to install from source, see the general download page.

## Learning

(Source URL: <a href="https://www.python.org/about/gettingstarted/">https://www.python.org/about/gettingstarted/</a> )

- Before getting started, you may want to find out which <u>IDEs</u> and <u>text editors</u> are tailored to make Python editing easy, browse the list of <u>introductory books</u>, or look at <u>code samples</u> that you might find helpful.
- There is a list of tutorials suitable for experienced programmers on the <u>BeginnersGuide/Tutorials</u> page. There is also a list of <u>resources in other</u> <u>languages</u> which might be useful if English is not your first language.
- The <u>online documentation</u> is your first port of call for definitive information. There is a fairly brief <u>tutorial</u> that gives you basic information about the language and gets you started. You can follow this by looking at the <u>library reference</u> for a full description of Python's many libraries and the <u>language reference</u> for a complete (though somewhat dry) explanation of Python's syntax. If you are looking for common Python recipes and patterns, you can browse the <u>ActiveState Python</u> <u>Cookbook</u>

### Source: <a href="https://www.python.org/downloads/release/python-364/">https://www.python.org/downloads/release/python-364/</a>

e python™		Search		<b>GO</b> Socialize	
About Downloads	Documentation	Community	Success Stories	News	Events
	Docs	Bython's standa	rd documentation:	download	
	Audio/Visual Talks	browse or watch	a tutorial.	downtodu,	
Python 3.6.4	Beginner's Guide	Get started below,			
Release Date: 2017-12-19	Developer's Guide	Python 3.x Docs			
Network Butter 2011 12 13	FAQ	See also Should Lu	se Python 2 or 3?		
Python 3.6.4 is the fourth maintenance release of Python 3 information.	Non-English Docs				thon 3.6 document for more
Major new features of the 3.6 se	PEP Index				
Among the new major new features in Python 3.6 are:	Python Books				
PEP 468, Preserving Keyword Argument Order	Python Essays				
PEP 487, Simpler customization of class creation					
PEP 495, Local Time Disambiguation					
PEP 506. Adding A Secrets Module To The Standard Libr	arv				
<ul> <li>PEP 509, Add a private version to dict</li> </ul>					
<ul> <li>PEP 515, Underscores in Numeric Literals</li> </ul>					
<ul> <li>PEP 519, Adding a file system path protocol</li> </ul>					
PEP 520, Preserving Class Attribute Definition Order					
PEP 523, Adding a frame evaluation API to CPython					
<ul> <li>PEP 524, Make os.urandom() blocking on Linux (during)</li> </ul>	system startup)				
<ul> <li>PEP 525, Asynchronous Generators (provisional)</li> </ul>					
PEP 526, Syntax for Variable Annotations (provisional)					

#### Source: <a href="https://docs.python.org/3/tutorial/index.html">https://docs.python.org/3/tutorial/index.html</a>

#### Source: https://docs.python.org/3.6/index.html

#### Previous topic Changelog

#### Next topic 1. Whetting Your Appetite

This Page Report a Bug Show Source

#### The Python Tutorial

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, https://www.python.org/, and may be freely distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools and additional documentation

The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications.

This tutorial introduces the reader informally to the basic concepts and features of the Python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self-contained, so the tutorial can be read off-line as well.

For a description of standard objects and modules, see The Python Standard Library. The Python Language Reference gives a more formal definition of the language. To write extensions in C or C++, read Extending and Embedding the Python Interpreter and Python/C API Reference Manual. There are also several books covering Python in depth.

This tutorial does not attempt to be comprehensive and cover every single feature, or even every commonly used feature. Instead, it introduces many of Python's most noteworthy features, and will give you a good idea of the language's flavor and style. After reading it, you will be able to read and write Python modules and programs, and you will be ready to learn more about the various Python library modules described in The Python Standard Library,

The Glossary is also worth going through.

- · 1. Whetting Your Appetite · 2. Using the Python Interpreter
  - = 2.1. Invoking the Interpreter
  - . 2.1.1. Argument Passing
  - 2.1.2. Interactive Mode
  - 2.2. The Interpreter and Its Environment · 2.2.1. Source Code Encoding
- · 3. An Informal Introduction to Python
  - · 3.1. Using Python as a Calculator 3.1.1 Numbers
    - 3.1.2 Strings
    - 3.1.3. Lists
  - · 3.2. First Steps Towards Programming

#### Download Download these documents

#### Python 3.6.4 documentation

Welcome! This is the documentation for Python 3.6.4.

Parts of the documentation:

What's new in Python 3.6? or all "What's new" documents since 2.0

Tutorial start here

Library Reference keep this under your pillow

Language Reference describes syntax and language elements

how to use Python on different platforms

Python HOWTOs in-depth documents on specific topics

#### Indices and tables:

quick access to all modules

General Index all functions, classes, terms

Glossary the most important terms explained

Installing Python Modules installing from the Python Package Index & other sources

**Distributing Python Modules** publishing modules for installation by others

Extending and Embedding tutorial for C/C++ programmers

Python/C API reference for C/C++ programmers

FAQs frequently asked questions (with answers!)

Search page search this documentation

Complete Table of Contents lists all sections and subsections

Docs for other versions Python 3.7 (in development)

Python 3.5 (stable) Python 2.7 (stable) Old versions

Other resources

Audio/Visual Talks

PEP Index Beginner's Guide Book List

Python Setup and Usage

Global Module Index

## Looking for Something Specific?

(Source URL: <a href="https://www.python.org/about/gettingstarted/">https://www.python.org/about/gettingstarted/</a> )

- If you want to know whether a particular application, or a library with particular functionality, is available in Python there are a number of possible sources of information.
- The Python web site provides a <u>Python Package Index</u> (also known as the *Cheese Shop*, a reference to the Monty Python script of that name).
- There is also a <u>search page</u> for a number of sources of Python-related information. Failing that, just <u>Google</u> for a phrase including the word "python" and you may well get the result you need.
- If all else fails, ask on the <u>python newsgroup</u> and there's a good chance someone will put you on the right track.

## **Frequently Asked Questions**

(Source URL: <a href="https://www.python.org/about/gettingstarted/">https://www.python.org/about/gettingstarted/</a> )

• If you have a question, it's a good idea to try the <u>FAO</u>, which answers the most commonly asked questions about Python.

## Looking to Help?

(Source URL: <a href="https://www.python.org/about/gettingstarted/">https://www.python.org/about/gettingstarted/</a> )

• If you want to help to develop Python, take a look at the <u>developer area</u> for further information. Please note that you don't have to be an expert programmer to help. The documentation is just as important as the compiler, and still needs plenty of work!

# 1. Installing Python 3.6.4 (1)



# 1. Installing Python 3.6.4 (2)

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python	Customize install location C:\Users\user\AppData\Local\Progra	<ul> <li>▶ Program Files</li> <li>▶ Program Files (x86)</li> <li>▶ Python36</li> <li>▶ SWSetup</li> <li>▶ Users</li> <li>▶ Windows</li> <li>▶ 新道磁碟區 (D:)</li> </ul>	Python 3.64 (32-bit) Setup	Advanced Options Install for all users Associate files with Python (requires the py launcher) Create shortcuts for installed applications Add Python to gnvironment variables Precompile standard library Download debugging symbols
windows	<u>B</u> ack	Folder: Python36 Make New Folder	ок python windows	Download debug binaries (requires VS 2015 or later) Customize install location C:\Python36 Browse Back Sancel Cancel

## 2. Setting environment (1)

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Security and Maintenance

# 2. Setting environment (2) – my case

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variable name.	- Julion					
Variable value:	C:\Python3	36				

## 2. Setting environment (3)

#### Copy the path and paste on "Variable value"





## 2. Setting environment (Source URL: <u>https://www.youtube.com/watch?v=cpPGobKHYKc</u>)

	ows 7 Ultimate	Organize - Include	in library - Share with - Burn	New folder	
Edit System Variable	ight © 2009 Micro e Pack 1 facturer: 3: ssor: ed memory (RAM) m type: nd Touch: port one number: Website: Computer name, domain, a	<ul> <li>✓ Favorites</li> <li>■ Desktop</li> <li>■ Desktop</li> <li>Weisher</li> <li>■ Recent Places</li> <li>Weisher</li> <li>Work</li> <li>■ Documents</li> <li>■ Music</li> <li>■ Pictures</li> <li>■ Videos</li> <li>♥ Videos</li> <li>♥ Homegroup</li> <li>Metwork</li> </ul>	Name DLLs Doc include Lib libs libs lcl Tools LCENSE.bat NEWS.bat Python.exe Python.exe README.bat NewSyphon.exe NetDiffered	Date modified 12/28/2013 11:26 12/28/2013 11:26 12/28/2013 11:26 12/28/2013 11:25 12/28/2013 11:25 12/28/2013 11:25 11/18/2013 9:12 PM 11/18/2013 9:13 PM 11/18/2013 9:13 PM 11/18/2013 9:13 PM 11/18/2013 9:17 PM	Type File folder File folder File folder File folder File folder File folder Text Docums Application Text Docums Application
Windows Update Performance Information and Tools	Full computer name: Computer description: Workgroup:	13 items			

# 3. Type "cmd" in Command Prompt and type "py"

N WALGEN W

		Command Prompt
	Filters 🗸	Microsoft Windows [Version 10.0.16299.192] (c) 2017 Microsoft Corporation. All rights reserved.
Best match		'python' is not recognized as an internal or external command.
Command Prompt Desktop app		operable program or batch file.
Search suggestions		Command Prompt - py
	>	<pre>Microsoft Windows [Version 10.0.16299.192] (c) 2017 Microsoft Corporation. All rights reserved. C:\Users\user&gt;python 'python' is not recognized as an internal or external command, operable program or batch file. C:\Users\user&gt;py Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45) [MSC v.1900 32 bit (Intel)] on win32 Type "beln", "copyright", "credits" on "license" for more information</pre>
2		>>> print('Hello World')
		Hello World >>>

## 4. Hello world program Step 1 – Create a python program file (1)

è Fil

#### (1) Open "IDLE" from the Start Menu



(2) From the "Python Shell, click File  $\rightarrow$  "New File"

À Python 3.6.4 Shell							
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## **4. Hello world program** Step 1 – Create a python program file (2)

#### (3) Save the python file as "\*\*\*.py"

💑 Save As		
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Address map dir	DLLS	2/2/2018 5:55 PM
Joanne		2/2/2018 5:55 PM
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### (4) Type the coding in the NEW-File $\rightarrow$ select "Run" $\rightarrow$ "Run Module"

print("Hello Wor

\*helloworld.py - C:/Python36/helloworld.py (3.6.4)\*

File Edit Format Run Options Window Help

Python Shell

Check Module Alt+X Run Module F5

#### 🚖 \*helloworld.py - C:/Python36/helloworld.py (3.6.4)\*

File Edit Format Run Options Window Help

print("Hello World")

#### (5) Result will be shown in the "Python Shell"



### **4. Hello world program** (URL: <u>https://www.youtube.com/watch?v=hFhiV5X5QM4</u>) Step 2 – Determine the path of a python program file

#### It is better type code & edit in "Notepad ++"



Call out the "command prompt" n type cmd

Administrator C:\Windows\system32\cmd.exe Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved. C:\Users\Kevin>cd Type "cmd" to change to the directory where you save python program file.... Copy the file directory PATH



## 4. Hello world program

(Adapted from URL: <u>https://www.youtube.com/watch?v=hFhiV5X5OM4</u>) Step 3 – Run a python program file in cmd.exe

#### Copy and paste to the cmd.exe

_	6	-			
CAN	Administrator: C:\W	indows\system32\cmd	l.exe		
Mi Co	crosoft Window pyright (c) 20	us [Version 6.1. 109 Microsoft Co	7601] rporation.	All rights	reserved.
C:	Users\Kevin>c	d C:\Users\Kevi	in∖Desktop		
C:	Users\Kevin\I	esktop>			

Run the python program

Administrator: C:\Windows\system32\cmd.exe

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Kevin>cd C:\Users\Kevin\Desktop

C:\Users\Kevin\Desktop>python helloworld.py Hello world

C:\Users\Kevin\Desktop>

If error like this, then go back to the "variable environment setting" OR make sure that you type "py" instead of "python" <u>for Python 3.6.4</u>



### **4. Hello world program – Adding Inputs** (Adapted from URL: <u>https://www.youtube.com/watch?v=hFhiV5X5OM4</u>) Step 4 – Add inputs in a python program file

#### Adding "input"



# Determine the content to crawl: Open a webpage in Chrome $\rightarrow$ right click and select "check (N)" --- to see its HTML code



▶ display

▶ font\_family

transition: ▶ opacity 0.24s @ease-in-out;

block

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## Install "requests-module" in the cmd in order to call the "requests" modu

- 0 X



# Run the Yahoo Weather API program in Python

yahooidle.py - C:/Users/user/Desktop/yahooidle.py (3.6.4)

File Edit Format Run Options Window Help

import requests

lresult = requests.get("https://query.yahooapis.com/v1/public/yql?q=select%20item.forecast%2C%20item.condition%2C%20at: print(result.json())

 $\times$ 

# Run the Yahoo Weather API program in Postman

💋 Postman



# Type more code in IDLE (e.g. yahooidle.py) and press "Run"

🌛 yahooidle.py - C:/Users/user/Desktop/yahooidle.py (3.6.4)	_		)
File Edit Format Run Options Window Help			
import requests			
result = requests.get("https://query.yahooapis.com/v1/public/yq1?q=select%20item.forecast%2C%20item.	conditi	on%2C%2	Oat
jsonData = result.json()			
print(jsonData["query"]["results"]["channel"]["item"]["forecast"])			

## **Result is shown in Python Shell**

#### 🌛 Python 3.6.4 Shell

– 🗆 🗙

File Edit Shell Debug Options Window Help Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45) [MSC v.1900 32 bit (Intel)] on win32 Type "copyright", "credits" or "license()" for more information. >>> Traceback (most recent call last): File "C:/Users/user/Desktop/yahooidle.py", line 1, in <module> import requests ModuleNotFoundError: No module named 'requests' >>> >>> dic {'a': 1, 'b': 2} >>> dic["b"] >>>Traceback (most recent call last): File "C:/Users/user/Desktop/yahooidle.py", line 7, in <module> \_\_print(jsonData["querry"]["results"]["channel"]["item"]["forecast"]) KeyError: 'querry' >>>= RESTART: C:/Hsers/user/Desktop/wahooidle.pv === {'code': '11', 'date': '03 Feb 2018', 'day': 'Sat', 'high': '11', 'low': '9', 't ext': 'Showers'} >>> İ

# Simplify result in Shell

Python 3.6.4 Shell -	
	👌 yahooidle.py - C:/Users/user/Desktop/yahooidle.py (3.6.4)
File Edit Shell Debug Options Window Help	
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on win32	import reguests
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>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	result = requests.get("https://query.yahooapis.com/v1/public/yq1?q=select%20item.f
RESTART: C:/Users/user/Desktop/vahooidle.pv	
Traceback (most recent call last):	jsonData = result.json()
File "C:/Users/user/Desktop/yahooidle.py", line 1, in <module></module>	
import requests	forecastData = jsonData["query"]["results"]["channel"]["item"]["forecast"]
ModuleNotFoundError: No module named 'requests'	
>>>	print(forecastData["high"])
======================================	print(forecastData["low"])
{'query': {'count': 1, 'created': '2018-02-03T06:26:31Z', 'lang': 'en-US', 'r	
lts': {'Channel': {'atmosphere': {'humidity': '88', 'pressure': '33999.36', '	
<pre>ing': 'U', 'visibility': '25.75'}, 'item': {'Condition': {'Code': '26', 'date</pre>	
"Sat, US Feb 2018 UI:00 PM CSI", 'temp': 'II', 'text': 'Cloudy'}, 'forecast':	
the Content in , date : US Peo 2016 , day : Sat , high : 11 , 10W : 9 ,	
(, snowers jjjjj)	
and the second sec	
>>>	
======================================	
Traceback (most recent call last):	
File_"C:/Users/user/Desktop/yahooidle.py", line 7, in <module></module>	
print(jsonData["querry"]["results"]["channel"]["item"]["forecast"])	
KeyError: 'querry'	
RESTART: C:/Users/user/Desktop/yahooldle.py	
{'Code': 'II', 'date': 'US Feb 2018', 'day': 'Sat', 'high': 'II', 'low': '9',	
ext : snowers ;	
PRETART. C./Hears/mear/mear/mear/mear/mearidle pr	
11	

# Install "BeautifulSoup" and "Openpyxl" in cmd

#### 🚾 選取 命令提示字元

100% 1
Installing collected packages: urllib3, chardet, certifi, idna, requests
Successfully installed certifi-2018.1.18 chardet-3.0.4 idna-2.6 requests-2.18.4 urllib3-1.22
C:\Users\user>py -m pip install bs4
Collecting bs4
Downloading beautifulsoup4 (from bs4)
Downloading beautifulsoup4.6.0-py3-none-any.wh1 (86kB)
100% 1
Downloading beautifulsoup4.4.6.0-py3-none-any.wh1 (86kB)
100% 1
Downloading beautifulsoup4.4.6.0-py3-none-any.wh1 (86kB)
100% 1
Downloading beautifulsoup4.4.6.0 bs4
Running setup.py install for bs4 ... done
Successfully installed beautifulsoup4.4.6.0 bs4-0.0.1
C:\Users\user>
C

## Crawling a webpage – using Postman



# Crawling a webpage – using Python

🕞 scapeweppage.py - C:/Users/user/Desktop/scapeweppage.py (	.6.4) —	$\Box$ $\times$	🛃 Python 3.6.4 Shell —		Х
File Edit Format Run Options Window Help			File Edit Shell Debug Options Window Help		
File Edit Format Run Options Window Help import requests html = requests.get("http://pythonscraping.com/pages/pa print(html.text)	gel.html")		<pre>tic Edit Shem Debug Options Window Help t': 'Showers')}))) &gt;&gt;&gt; dic = {'a': 1, "b": 2} &gt;&gt;&gt; dic {'a': 1, 'b': 2} &gt;&gt;&gt; dic["b"] 2 &gt;&gt;&gt; Traceback (most recent call last): File "C:/Users/user/Desktop/yahooidle.py Traceback (most recent call last): File "C:/Users/user/Desktop/yahooidle.py", line 7, in <module>     print(jsonData['guerry']["results"]["channel"]["item"]["forecast"]) KeyError: 'guerry' &gt;&gt;&gt;</module></pre>	d tempo uis nos Duis culpa	't't
		~	>>>		

## Beautifying output using "BeautifulSoup – in Python Program

🔀 scapeweppage.py - C:/Users/user/Desktop/scapeweppage.py (3.6.4) — 🗆 >	×	📴 Python 3.6.4 Shell —	×	
File Edit Format Run Options Window Help		File Edit Shell Debug Options Window Help		
<pre>from bs4 import BeautifulSoup import requests html = requests.get("http://pythonscraping.com/pages/pagel.html") file = BeautifulSoup(html.text, 'html.parser') print(file.prettify())</pre>	^	Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod temp incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis no ud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis te irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugi nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa i officia deserunt mollit anim id est laborum.   	por pstr au at i qu	^
		<pre>&gt;&gt;&gt; Traceback (most recent call last): File "C:/Users/user/Desktop/scapeweppage.py from bs4 import Beautifulsoup ImportError: cannot import name 'Beautifulsoup' &gt;&gt;&gt;</pre>		
		<pre>&lt; title&gt;     A Useful Page  An Interesting Title                        Lorem insum dolor sit amet_consectetur adinisicing elit_sed do eiusmod to</pre>	6WD	
		or incididint ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis strud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. I aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu f at mulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in cu qui officia deserunt mollit anim id est laborum.   	no Duis fugi Ilpa	
	$\vee$	>>>		¥

## Extract text – using Python

#### 💋 Postman



## Css

🌼 10 Surprising Benefits 🛛 🗙 🕐 一個下午教你用 Python 🛛 🗙 🕒 A Useful Pa	ge X Pythonscraping.com/p X
← → C ① pythonscraping.com/pages/warandpeace.html	 © ☆
War and Peace	
Chapter 1	<style></style>

## Scrape green text only & array

			🌛 Python 3.6.4 Shell	- 🗆	×
			File Edit Shell Debug Options Window Help strud exercitation ullamco laboris nisi ut aliquin ex ea commodo o	conseguat.	Duis 🔥
🎄 10 Surprising Benefits 🛛 🗙 🗋 一個下	午教你用 Python: 🗙 🎦 A Useful Page 🛛 🗙 🎦 pythonscraping.com	n/p⊨ X 登入 只 ≠	aute irure dolor in reprehenderit in voluptate velit esse cillum at nulla pariatur. Excepteur sint occaecat cupidatat non proident.	dolore eu sunt in (	fugi Culpa
$\leftarrow$ $\rightarrow$ C (i) pythonscraping.com/pa	iges/warandpeace.html	<b>□</b> ☆ : <b>□</b> → □	qui officia deserunt mollit anim id est laborum.		
	🜏 scapeweppage.py - C:/Users/user/Desktop/scapeweppage.py (3.6.4)	Python 3.6.4 Shell − □ ×			
War and Peace	File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help			
Chapter 1	<pre>from bs4 import BeautifulSoup import requests file = requests.get("http://pythonscraping.com/pages/warandpeace html = BeautifulSoup(file.text, 'html.parser')</pre>	<div> Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod temp or incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis no strud exercitation ullamco laboris nisi ut aliquip ex ac commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugi at mulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa</div>	>>> A Useful Page >>>		
"Well, Prince, so Genoa and Lucca are now just family estates of the Buonapartes. But I warn you, if you don't tell me that this means war, if you still try to defend the infamies and horrors perpetrated by that Antichrist- I really believe he is Antichrist-I will have nothing more to do with you and you are no longer my friend, no longer my faithful slave, as you call yourself! But how do you do? I see I have frightened you-sit down and tell me all the news."	nameList = html.findAll("span", {"class": "green"}) print(nameList)	<pre>qui officia deserunt mollit anim id est laborum.   &gt;</pre>	<pre>====================================</pre>	<pre>&gt;, <span cl<br="">'span&gt;, <sp <!--'span-->, <s 'span&gt;, <s ma&lt;'span&gt;, inceof Prussia- is="green"&gt;Abbi green"&gt;Abbi reen"&gt;Abbi pen"&gt;Abbi pen"&gt;Abbi</s </s </sp </span></pre>	=== pan C span <span pan C span pan C span &gt;, <sp &gt;, <s &gt;Mont e Mor prinC</s </sp </span 
It was in July, 1805, and the speaker was the well-known Anna Pavlovna Scherer, maid of honor and favorite of the Empress Marya Fedorovna. With these words she greeted Prince Vasili Kuragin, a man of high rank and importance, who was the first to arrive at her reception. Anna Pavlovna had had a cough for some days. She was, as she said, suffering from la grippe; grippe being then a new word in St. Petersburg, used only by the elite.	DA - 病毒滑描     The Market     The Market	<pre>in class="green"&gt;Amma Pavlownac/span&gt;, <span class="green">the prince</span>, <s pan class="green"&gt;littingeroide, <span class="green">king of Prussiac/span&gt;, (span class="green"&gt;littingeroide</span>, <span class="green">Ahmg of Prussiac/span&gt;, (span) class="green"&gt;the Empror</span>, <span class="green">the baron</span>, <span class="green">the Span&gt;, <span class="green">the Barons</span>, <span class="green">the Barons</span>, <span class="green">the Barons</span>, <span class="green">the Barons</span>, <span class="green">the Span&gt;, <span class="green">the Span&gt;, <span class="green">the Span class="green"&gt;the Span&gt;, <span class="green">the Span class="green"&gt;the Span&gt;, <span class="green">the Span class="green"&gt;the Span&gt;, <span class="green">the Span&gt;, <span class="green">the Span class="green"&gt;the Span class="green"&gt;the Span&gt;, <span class="green">the Span class="green"&gt;the Span clas</span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></span></s </pre>	e, <span class="green">Prince Vasili</span> , <span class="g&lt;br&gt;Empress Marya Fedorovna&lt;/span&gt;, &lt;span class=" green"="">the baron</span> s="green">Anna Pavlovna, <span class="green">the Empressass="green"&gt;the Empress</span> , <span class="green">the Empressass="green"&gt;the Empress</span> , <span class="green">the Empressass="green"&gt;the Empress</span> , <span class="green">the Empressn class="green"&gt;the Empress</span> , <span class="green">the Empressn class="green"&gt;the Empress</span> , <span class="green">the prince</span> , <span class="&lt;br&gt;Pavlovna&lt;/span&gt;, &lt;span class=" green"="">the Empress</span> , <span class="&lt;br&gt;pavlovna&lt;/span&gt;, &lt;span class=" green"="">the Empress</span> , <span class="g&lt;br&gt;ce&lt;/span&gt;, &lt;span class=" green"="">the Empress</span> , <span class="g&lt;br&gt;ce&lt;/span&gt;, &lt;span class=" green"="">the prince</span> , <span class="g&lt;br&gt;ce&lt;/span&gt;, &lt;span class=" g<br="">ce</span> , <span class="g&lt;br&gt;ce&lt;/sp&lt;/td&gt;&lt;td&gt;reen">Dowa .n&gt;, <span pan&gt;, <spa s</spa </span </span> , 'green">Am iss="green' rreen">the ien">Anna	iger clas in cl <spa na prin "&gt;The prin</spa 	
All her invitations without exception,		¥		Ln: 8	2 Col: 4

## Get 1<sup>st</sup> set of data & last (-1)

🛃 scapeweppage.py - C:/Users/user/Desktop/scapeweppage.py (3.6.4) – 🗆 🗙	🚱 Python 3.6.4 Shell — 🗆 🗙
File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
from bs4 import BeautifulSoup import requests	
<pre>file = requests.get("http://pythonscraping.com/pages/warandpeace.html") html = BeautifulSoup(file.text, 'html.parser')</pre>	
nameList = html.find("span", {"class": "green"}) print(nameList)	A Useful Page
	======================================
	Pavlovna Scherer, <span class="green">Empress Marya Redorovna</span> , <span class="green">Prince Vasili Kuragin</span> , <span class="&lt;/th"></span>
	"green">Anna Pavlovna, <span class="green">St. Petersburg</span> , <span c<="" th=""></span>
	class="green">Anna Pavlovna, <span class="green">hima raviovna</span> , <span< th=""></span<>
	Class="green">the_prince, <span_class="green">the_prince, <span_c lass="green"&gt;Prince_Vasili, <span_class="green">Anna_Pavloyna, <sp< th=""></sp<></span_class="green"></span_c </span_class="green">
	an class="green">Anna Pavlovna, <span class="green">the prince</span> , <s pan class="green"&gt;Wintzingerode, <span class="green">King of Prussia</span></s 
	n>, <span class="green">le Vicomte de Mortemart</span> , <span class="green">Mont morencws</span> , <span class="green">Robans</span> , <span class="green">Abbe Mor</span>
	lo, <span class="green">the Emperor</span> , <span class="green">the princ</span>
	Empress Marya Fedorovna, <span class="green">the baron</span> , <span <="" class="green" span="">, <span )<="" class="green" p=""></span></span>
	s="green">Anna Pavlovna, <span class="green">the Empress</span> , <span cl<br="">ass="green"&gt;the Empress</span> , <span class="green">Anna Pavlovna's</span> , <spa< th=""></spa<>
	n class="green">Her Majesty, <span class="green">Baron Bunke</span> _ <span class="green">The prince</span> _ <span class="green">Anna</span>
	Pavlovna, <span class="green">the Empress</span> , <span class="green">The</span>
	ce, <span class="green">The prince</span> , <span class="green">Anna</span>
	Pavlovna, <span class="green">Anna Pavlovna</span> ] >>> li = ["A", "B", "C"]
	>>>> li[1]
	<pre><span class="green">Anna</span></pre>
V	Pavlovna Scherer
Ln: 7 Col: 20	Ln: 75 Col: 1200

## Len of a phrase (number of occurrence)



## Stock closing price (1)





# Book price (1)

 #buyNewSection > a > h5 > div > div.a-column.a-span8.a-text-right.a-span-last > div > span.a-size-medium.a-color-price.offer-price.a-text-normal



# Book price (2)

🕞 scapeweppage.py - C:/Users/user/Desktop/scapeweppage.py (3.6.4)	
File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
from bs4 import BeautifulSoup import requests	
<pre>doc = requests.get('https://www.amazon.com/Zero-One-Notes-Startups-Future/dp/080413929 html = BeautifulSoup(doc.text, 'html.parser')</pre>	版表 cor/>T/NL% / th> 66 時間 防限
ele= html.select('#buyNewSection > a > h5 > div > div.a-column.a-span8.a-text-right.a-	<pre>&lt; h align="center" width="55"&gt;買進</pre>
print(ele[0].text)	張數   張數   昭收   昭收
	<pre>最低最低最低</pre>
	個股資料
	align="center" width="105"> <a href="/q/bc?s=2330">2330台積電</a> -td align="center" width="105"> <a href="/q/bc?s=2330">2330台積電</a> -t/pf/pfsel?stocklist=2330; "> <font size=".1">加到投資組合</font> c/br/>/td>
	ds259.0 bs259.0
	259.5 <font color="#000000">0.00 25.682</font>
	259.5 259.0
	220U.UC/td> 255.0
	<pre><a href="/q/ts?s=2330">成交明細</a>/a&gt;/a href="/q/ta?s=2330"&gt;技術 <a href<br="">="/q/h?s=2330"&gt;新問</a>/a href="/d/s/company_2330.html"&gt;少方/&gt;基本 <a href="&lt;br&gt;/d/s/credit_2330.html">籌碼</a>/a&gt;/a href="https://tw.rd.yahoo.com/referurl/st ock/other/SIG=125v47s73/*https://tw.screener.finance.yahoo.net/screener/screener/heck.h</pre>
	tml?symid=2330" style="color:red" target="_blank">個股健診
	<pre>&gt;&gt;&gt; State: State: C:/Users/user/Desktop/scapeweppage.py \$19.98 &gt;&gt;&gt;</pre>
	Ln: 143 Col: 4

## Export data to Excel

File Edit Format Run Options Window Help from bs4 import BeautifulSoup

import requests

import openpyxl import os

doc = requests.get('https://tw.stock.yahoo.com/q/q?s=2330')

html = BeautifulSoup(doc.text, 'html.parser')

table = html.findAll(text="個股資料")[0].parent.parent.parent

dataRow = table.select('tr')[1].select('td')

closingPrice = dataRow[7].text

print("台積電今日收盤價:\${}".format(closingPrice))

os.chdir(r"C:\Users\user\Desktop") workbook = openpyxl.load\_workbook('stock\_price\_data.xlsx') sheet = workbook.get\_sheet\_by\_name('TW2330')

sheet.cell(row=88, column=2).value = closingPrice

workbook.save('stock\_price\_data.xlsx')

#### Python 3,6,4 Shell

File	Edit	Shell	Debug	Options	Windo
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RESTART: C:/Users/use: 台稿電合目收盤價: \$259.5 Traceback (most recent call last): File "C:/Users/user/Desktop/scapewer os.chdir(r"C:\Users\user\Desktop") NameError: name 'os' is not defined >>>

RESTART: C:/Users/use: 台積電今日收盤價:\$259.5

Warning (from warnings module): File "C:/Users/user/Desktop/scapewe sheet = workbook.get\_sheet\_by\_nam DeprecationWarning: Call to deprecate ame]). >>>

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71	2018/1/12		237		-				
72	2018/01/13		235						
73	2018/01/14		235						
74	2018/01/20		248.5						
75	2018/01/21		248.5						
76	2018/01/22		255.5						
77	2018/01/23		266						
78	2018/01/24		258						
79	2018/01/25		258						
80	2018/01/26		255						
81	2018/01/27		258						
82	2018/01/28		258						
83	2018/01/29		258.5						
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## Input data to excel --- for all stock

#### import time import os import openpyxl

def getStockPriceByld(stockID, workbook): url = 'https://tw.stock.yahoo.com/q/q?s={}'.format(stockID) doc = requests.get(url) html = BeautifulSoup(doc.text, 'html.parser') table = html.findAll(text='個股資料')[o].parent.parent.parent dataRow = table.select('tr')[1].select('td') date = time.strftime(''%Y/%m/%d'') closingPrice = dataRow[7].text

print("{} {}收盤價: {}".format(date, stockID, closingPrice))

# 找出試算表名稱
sheetName = "TW{}".format(stockID)
sheet = workbook.get\_sheet\_by\_name(sheetName)
# 找出目前該試算表有多少筆資料
numOfRows = len(sheet['A'])
print(numOfRows)

# 將新日期與收盤價印在下一列 sheet.cell(row=numOfRows+1, column=1).value = date sheet.cell(row=numOfRows+1, column=2).value = float(closingPrice)

# 主程式從這裏開始 stocks = [2330, 2311] os.chdir(r"C:\Users\user\Desktop") workbook = openpyxl.load\_workbook('stock\_price\_data.xlsx')

# 用回圈把每一個 stockID 都跑一次 for stockID in stocks: getStockPriceById(stockID, workbook) workbook.save("stock\_price\_data.xlsx")

#### from bs4 import BeautifulSoup import requests import time import os import openpyxl

def getStockPriceById(stockID, workbook):

url = 'https://tw.stock.yahoo.com/q/q?s={}'.format(stockID)

doc = requests.get(url) html = BeautifulSoup(doc.text, 'html.parser') table = html.findAll(text='個股資料')[o].parent.parent.parent dataRow = table.select('tr')[1].select('td') date = time.strftime("%Y/%m/%d") closingPrice = dataRow[7].text

print("8 8收盤價:8".format(date, stockID, closingPrice))

# 找出試算表名稱
sheetName = "TW{}".format(stockID)
sheet = workbook.get\_sheet\_by\_name(sheetName)
# 找出目前該試算表有多少筆資料
numOfRows = len(sheet['A'])
print(numOfRows)
# 將新日期與收盤價印在下一列
sheet.cell(row=numOfRows+1, column=1).value = date

sheet.cell(row=numOfRows+1, column=2).value = float(closingPrice)

# 主程式從這裏開始 stocks = [2330, 2311]

os.chdir(r"你的Excel檔案所在目錄")

workbook = openpyxl.load\_workbook('stock\_price\_data.xlsx')

# 用回圈把每一個 stockID 都跑一次 for stockID in stocks: getStockPriceById(stockID, workbook) Source, URL: https://gist.github.com/ yuyueugene84/8abb616 bb3762c97d642ecb935e 3ca84

## Run Python program from "Command Prompt"

🔜 選取 命令提示字元

C:\Users\user>python python C:\Users\user\Desktop\scapeweppage. python: can't open file 'python': [Errno 2] No such file or directory

]:\Users\user>C:\Python 2018\python-3.6.4.exe 'C:\Python' 不是内部或外部命令、可執行的程式或批次檔。

C:\Users\user>py Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45) [MSC v.1900 32 bit (Inte Type "help", "copyright", "credits" or "license" for more information.

KeyboardInterrupt

KeyboardInterrupt >>> exit()

C:\Users\user>py C:\Users\user\Desktop\scapeweppage.py C:\Users\user\Desktop\scapeweppage.py:84: DeprecationWarning: Call to depreca tname]). sheet = workbook.get\_sheet\_by\_name('Portfolio') 10 2018/02/03 1301收盤價:103.0 C:\Users\user\Desktop\scapeweppage.py:46: DeprecationWarning: Call to depreca tname]).

sheet = workbook.get\_sheet\_by\_name(sheetName)

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# Scheduling (1)



# Scheduling (2)

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檔案(F	建立基本工作精靈			×	
	包 啟動程式				
	建立基本工作				
	觸發程序	程式或指令碼(P):			
	每天	ру		瀏覽(R)	
	動作	· · · · · · · · · · · · · · · · · · ·		top\scapewappage pv	
	啟動程式	新項51數(凹省略)(A):		top/scapeweppage.py	
	完成	開始位置 (可省略)(T):			
					•
			< L_+E(D)	下	
			< T = % (B)	·····	

# Scheduling (3)

#### 🕑 工作排程器

檔案(F) 動作(A) 檢視(V) 說明(H)

– 0 ×

🗢 🔿 🙇 📰 🚺 🖬		
④ 工作排程器 (本機)	名稱 狀態 觸發程序 下衣執行時間	動作
✓ ☐ 工作排程器程式庫	④ Adobe Flas 就緒 於每天上午 08:55 - 開發之後,每1 小時便重複一次(持續時間1天)。 2018/2/3 下午 06:	:55:00 工作排程器程式庫
/ interestore	●BundleAppI 就緒 畜 DESKTOP-NIHBH9B\user 登入時執行	2 建立基本工作
	B Dell Suppor 就緒 於每 11 天的上午 10:02     2018/2/13 上午 10	0:02:2 10 建立工作
	Boll Suppor 就緒 從 2017/11/21 開始, 每個星期的 星期二 的 下午 08:24     2018/2/6 下午 08:	:24:51 匯入工作
	( Google Up 就緒 已定義多個觸發程序 2018/2/4 下午 04:	:43:26
	(@ GoogleUp 新緒 ドラストモ 04:43 - 開設之後 · 毎1 小時 便重複一次(狩猎時間 1 大) · 2018/2/3 トモ 06:	
	○ Intel Filt K 新婚 日月単行師道茲 ④ Unix - July おは、かちつっことが一次 00.025 種類研究性性力 2010/4.2/5 万た 00.025 00 利用。 2019/2/2 万た 00.05 00 00 00 00 00 00 00 00 00 00 00 00 00	▶25.00 版用所有工作歷程記錄
	◎ Mcp_upuate 新語 次等 50 人口 下 19:53 - 開放性が用法 2019/12 1 下 19:53:00 到前 · 2018/24 上午 10: (○ OneDiva Ct 計述 約1927(7) 上午 04:60 (銀行 24:54) 年 10 (00:00 (番茄コーカ) (細胞)) · 2018/24 上午 10: 2018/24 上午 10:	.33.00 11 新増資料夾
	PCDDatal」 新雄 従 2017/12/6 間後, 毎個星期6 星期三的下午 05:20     2018/27 下午 05:2     2018/27 下午 05:2	20:06 檢視
	@ PCDEventL 就緒 事件發生時 - 記錄覺 Application , 來漂. PC-Doctor Launcher , 事件識別碼: 1	Q 重新整理
	🔮 PCDoctor8 就緒 從 2017/12/8 開始,於 一月, 二月, 三月, 四月, 五月, 六月, 七月, 八月, 九月, 十月, 十一月, 十二月 的第 8 天的 上午 06:00 2018/2/8 上午 06:	BB 00:00:
	④ Stock crawler 就緒 於每天下午 06:32 2018/2/3 下午 06:32	:32:00
	SystemTool 就緒 於每天上午 11:48     2018/2/4上午 11:	:48:00 選取的項目
	<	> ▶ 執行
		■ 結束
		- ● 停用
	名稱: Adobe Flash Player Updater	
	位置: \	④ 内容
	作者: Adobe Systems Incorporated	★ 刪除
	描述: 這個工作會讓您的 Adobe Flash Player 安裝與最新增強功能和安全性修正保持同步。如果停用或移除這個工作,Adobe Flash Player 格無法自動透過最 新安全性修正保護您的電腦。	2 就明
	安全性攜項	
	當執行工作時,講使用下列使用者帳戶:	
	SYSTEM	
	○ 只有使用者登入時才執行	<b>~</b>

# Scheduling (4)

#### ① 工作排程器 – 0 × 檔案(F) 動作(A) 檢視(V) 說明(H) 🗢 🄿 🙍 🖬 🚺 🖬 🕗 工作排程器 (本機) 動作 名種 狀態 觸發程序 下灾執行時間 ✓ 100 工作排程器程式庫 () Adobe Flas... 就緒 於每天上午 08:55 - 觸發之後,每 1 小時 便重複一次 (持續時間 1 天)。 2018/2/3 下午 06:55:00 工作排程器程式庫 > 📔 Microsoft () BundleAppl... 就緒 當 DESKTOP-NIHBH9B\user 登入時執行 ً 建立基本工作... ④ Dell Suppor... 就緒 於每 11 天的 上午 10:02 2018/2/13 上午 10:02:2 🍋 建立工作... ① Dell Suppor... 就緒 從 2017/11/21 開始,每個星期的 星期二 的 下午 08:24 2018/2/6 下午 08:24:51 匯入工作... ④ GoogleUp... 就緒 已定義多個觸發程序 2018/2/4 下午 04:43:26 2018/2/3 下午 06:43:26 - 顧 顧示所有正在執行的工作 (B) GoogleUp... 就緒 於每天下午 04:43 - 觸發之後,每1小時便重複一次(持續時間1天)。 ④ Intel PTT EK... 就緒 自訂事件篩選器 歐用所有工作歷程記錄 () klcp\_update 就緒 於每 30 天的 下午 09:35 - 觸發程序將在 2019/12/5 下午 09:35:00 到期。 2018/2/3 下午 09:35:00 🎦 新増資料夾... ④ OneDrive St... 就緒 於 1992/5/1 上午 04:00 - 觸發之後,每 1.00:00:00 便重複一次 (無限期)。 2018/2/4 上午 10:43:14 2018/2/7 下午 05:20:06 檢視 (B) PCDDataU... 就緒 從 2017/12/6 開始,每個星期的 星期三 的 下午 05:20 () PCDEventL... 就緒 事件發生時 - 記錄檔: Application, 來漂: PC-Doctor Launcher, 事件識別碼: 1 Q 重新整理 ◎ PCDoctor8... 就緣 從 2017/12/8 開始 + 於一月, 二月, 三月, 三月, 六月, 六月, 七月, 八月, 九月, 十月, 十一月, 十二月 的藥 8 天的 上午 06:00 2018/2/8 上午 06:00:00 ? 說明 ④ Stock crawler 就緒 於每天下午 06:3 執行(R) (<sup>1)</sup> System I ool... 就緒 於每天 上午 11:48 2018/2/4 上午 11:48:00 選取的項目 結束(E) 執行 停用(1) 結束 一般 觸發程序 動作 條件 設定 歴程記錄(已停用) 匯出(X)... ♣ 停用 內容(P) 名稱: Stock crawler 匯出.. 刪除(D) 位置: ④ 内容 作者: DESKTOP-NIHBH9B\user 🗙 刪除 描述: ? 說明 -安全性選項-當執行工作時,請使用下列使用者帳戶: user 回 只有使用者登入時才執行

# Scheduling (5)

🔶 👛 📰 👔 🥽				
C作排程器 (本機)	夕發 毕龍 螺發行方		下次執行時間	動作
工作排程器程式庫	☆傍 八窓 周数径歩	原香物 为(持续味服 1 工)。	2010/2/2 下午 06-55-00	工作排程器程式庫
📔 Microsoft	● Adobe Flas 私給 永安大工士 06:33 - 周致之後,安日小時	使里復一天 (狩墳時間「天)。	2018/2/3 1-7 00:55:00	
	Ball Suppor 乾续 於每11 于的上午10:02		2018/2/13 上午 10:02:2	
	() Dell Suppor 就緒 從 2017/11/21 開始,每個星期的 星期二	的下午 08:24	2018/2/6 下午 08:24:51	• 建立工作
	<ul> <li>④ GoogleUp 就緒 已定義冬個觸發程序</li> </ul>			薩入丁作
	④ GoogleUp 就緒 於每天下午 04:43 - 觸發之後,每1小時	④ Stock crawler 内容 (本機電腦)		╳ ▮正在執行的工作
	④ Intel PTT EK 就緒 自訂事件篩選器			1丁作曆程記錄
	④ klcp_update 就緒 於每 30 天的 下午 09:35 - 觸發程序將在	20 一般 胸頭程序 動作 1%1+ 設定 墜程記録 (D	11字用)	
	🕒 OneDrive St 就緒 於 1992/5/1 上午 04:00 - 觸發之後,每	指定與觸發程式共同決定是否應該執行工作的條件。如果該	這裡指定的任何條件不為真,將不會執行工作	作。 * * * * …
	🕒 PCDDataU 就緒 從 2017/12/6 開始,每個星期的 星期三		4.0.15.64	
	🕒 PCDEventL 就緒 事件發生時 - 記錄檔: Application, 來源:	p □ 只有電腦開置 ト列時間後才 馭動 ⊥ 作(C):	10 分鐘 🗸	2
	PCDoctorB 就緒 從 2017/12/8 開始,於一月,二月,三月,	四 等待閒置時間(A):	1 小時 🗸 🗸	
	I Stock crawler 就緒 於每天下午 06:35	✓ 如果電腦不再間置即停止(E)		
	() SystemTool 就緒 於每天 上午 11:48	如果再度閒置就重新啟動(U)		
	<	開啟/開閉		
		只有在電腦是使用 AC 電源時才啟動這個工作(P)		
	一版 開發程序 副作 條件 設正 整程記錄(口伊用)	✓ 如果電腦切換到使用電池時即停止(B)		
	名稱: Stock crawler	□ 喚醒電腦以執行此工作(W)		
	位果. \			
		□ 只有在下列網路連線可以使用時才啟動(Y):		
	作者: DESKTOP-NIHBH9B\user			
	描述:	一江何建叔		~
		-		
	- 安全性邏項			
	當執行工作時,請使用下列使用者帳戶:			
	user		確定	取溯
	<ul> <li>只有使用者登入時才執行</li> </ul>			