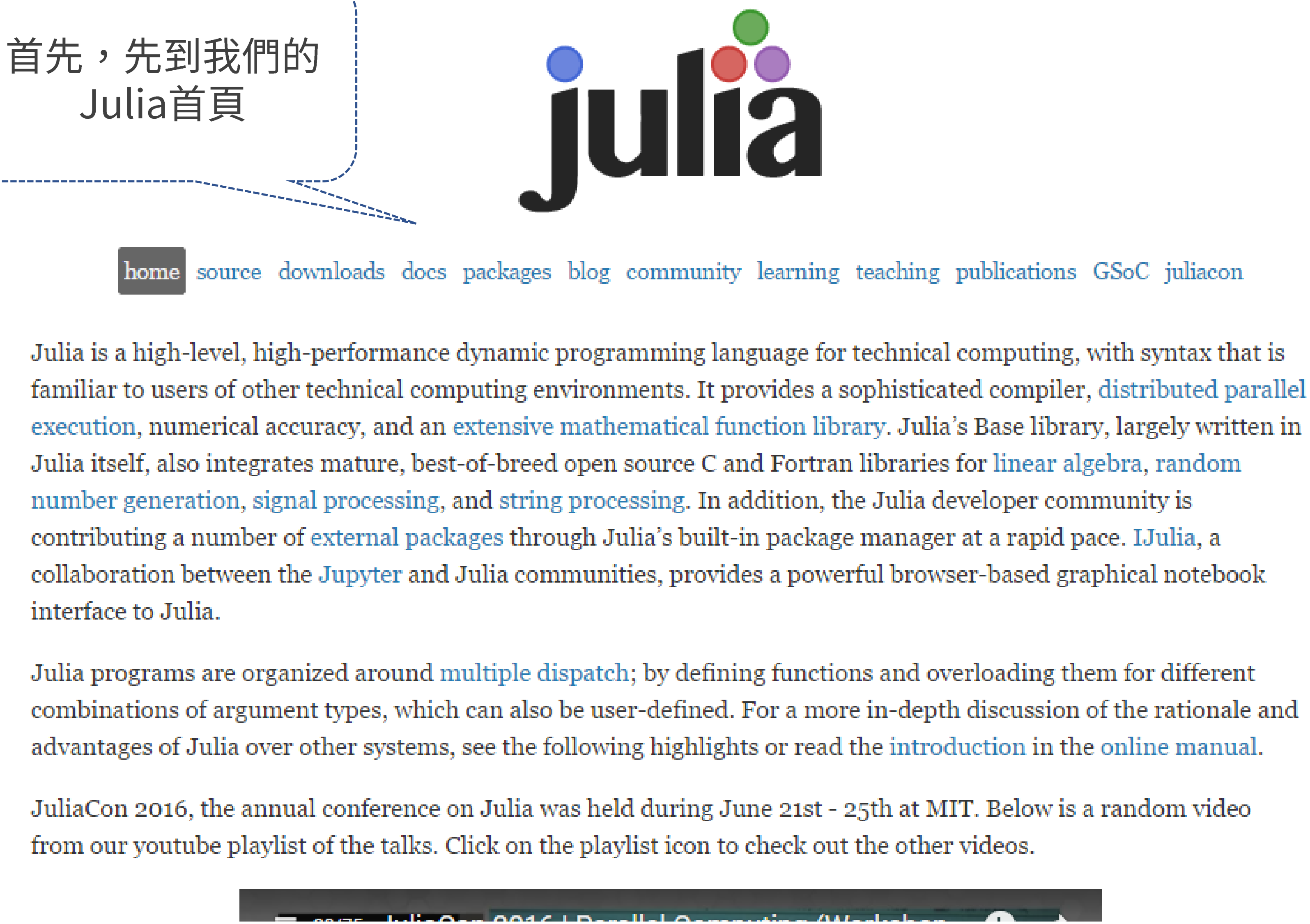
手把手Julia及Juno簡易安裝

杜岳華

Julia語言安裝

首先，先到我們的
Julia首頁

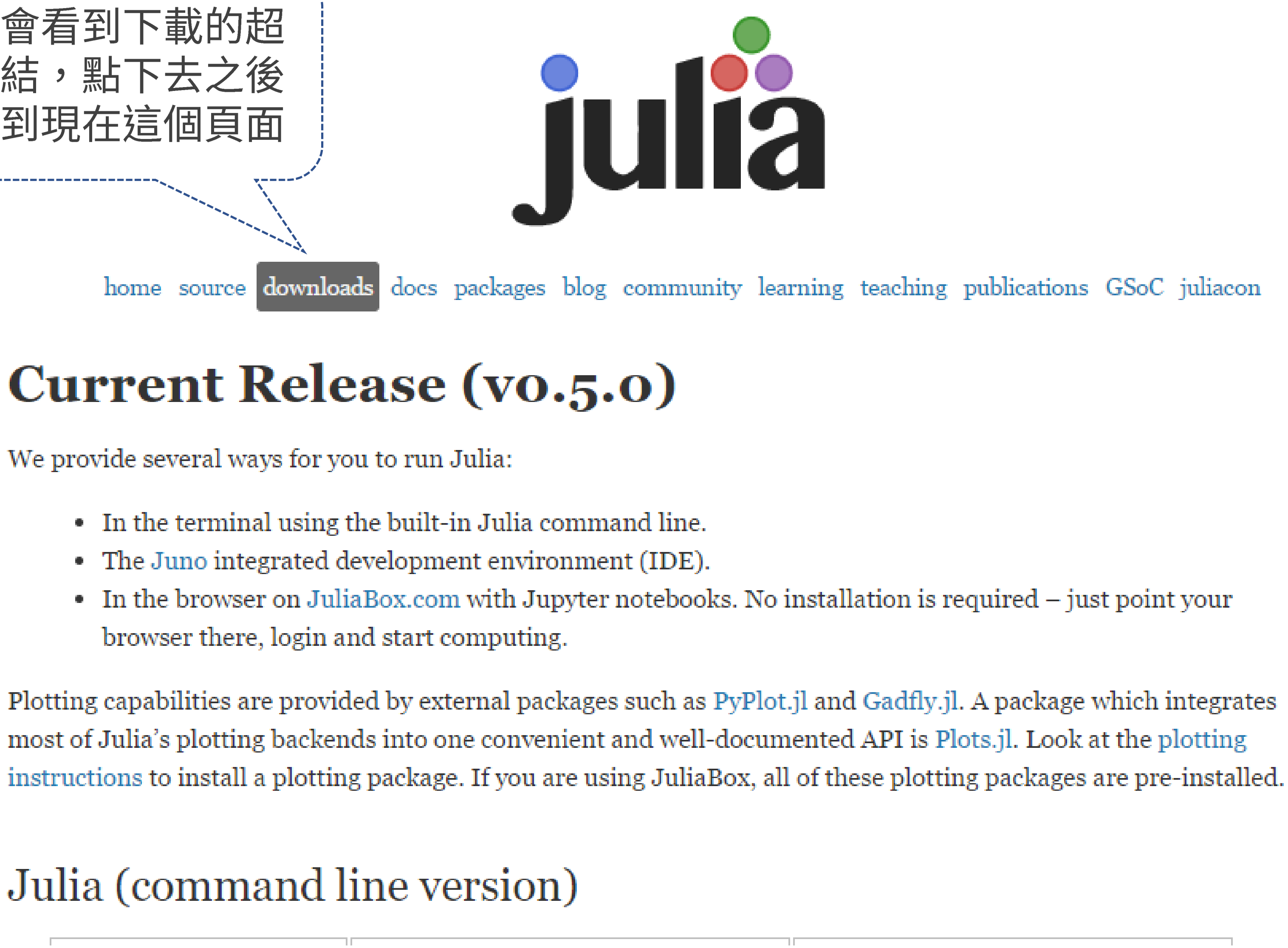


Julia is a high-level, high-performance dynamic programming language for technical computing, with syntax that is familiar to users of other technical computing environments. It provides a sophisticated compiler, distributed parallel execution, numerical accuracy, and an extensive mathematical function library. Julia's Base library, largely written in Julia itself, also integrates mature, best-of-breed open source C and Fortran libraries for linear algebra, random number generation, signal processing, and string processing. In addition, the Julia developer community is contributing a number of external packages through Julia's built-in package manager at a rapid pace. IJulia, a collaboration between the Jupyter and Julia communities, provides a powerful browser-based graphical notebook interface to Julia.

Julia programs are organized around multiple dispatch; by defining functions and overloading them for different combinations of argument types, which can also be user-defined. For a more in-depth discussion of the rationale and advantages of Julia over other systems, see the following highlights or read the introduction in the online manual.

JuliaCon 2016, the annual conference on Julia was held during June 21st - 25th at MIT. Below is a random video from our youtube playlist of the talks. Click on the playlist icon to check out the other videos.

你會看到下載的超連結，點下去之後會到現在這個頁面


home
source
downloads
docs
packages
blog
community
learning
teaching
publications
GSoC
juliacon

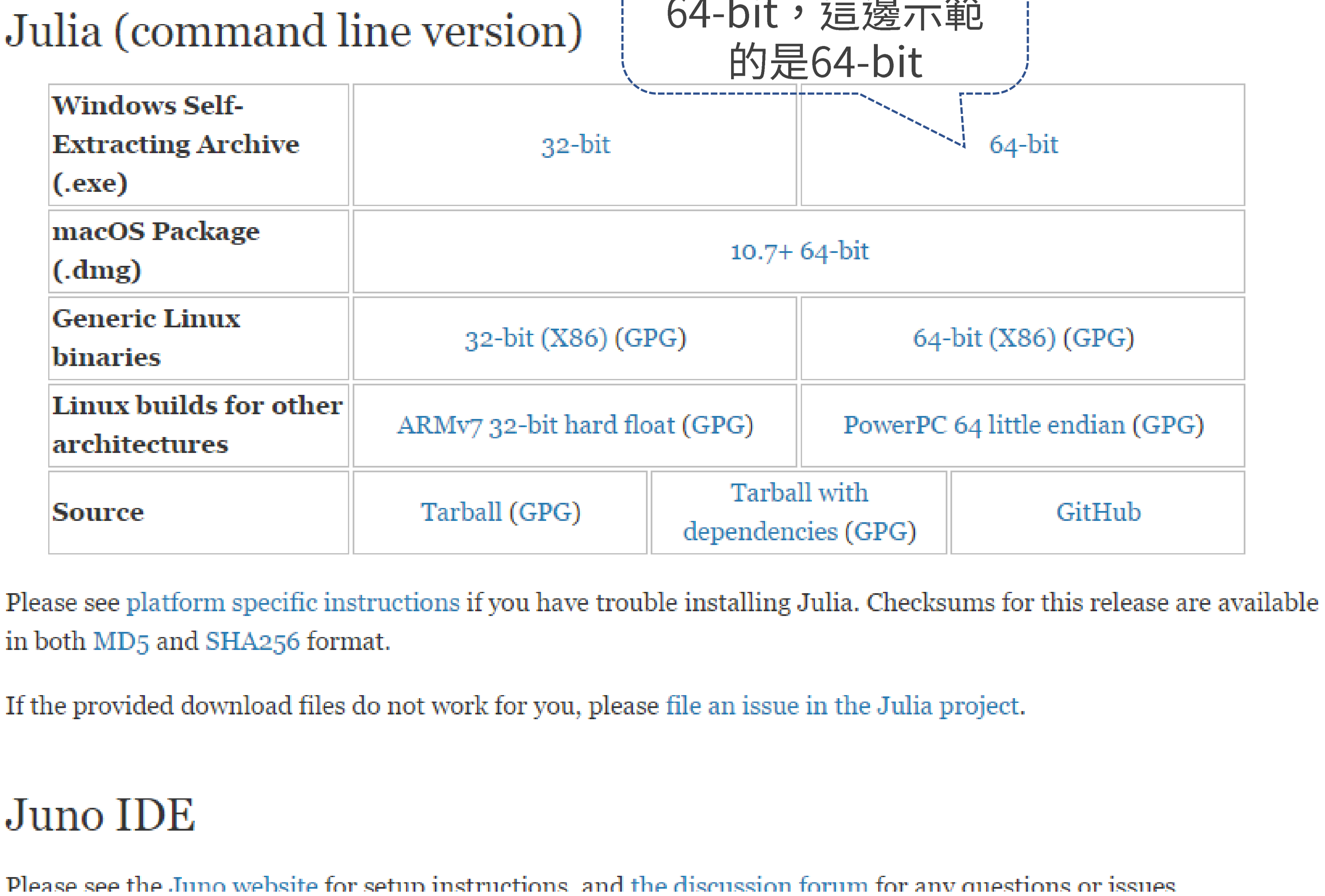
Current Release (v0.5.0)

We provide several ways for you to run Julia:

- In the terminal using the built-in Julia command line.
- The Juno integrated development environment (IDE).
- In the browser on JuliaBox.com with Jupyter notebooks. No installation is required – just point your browser there, login and start computing.

Plotting capabilities are provided by external packages such as PyPlot.jl and Gadfly.jl. A package which integrates most of Julia's plotting backends into one convenient and well-documented API is Plots.jl. Look at the plotting instructions to install a plotting package. If you are using JuliaBox, all of these plotting packages are pre-installed.

Julia (command line version)



Julia (command line version)

依據你的作業系統位元挑選是32或是64-bit，這邊示範的是64-bit

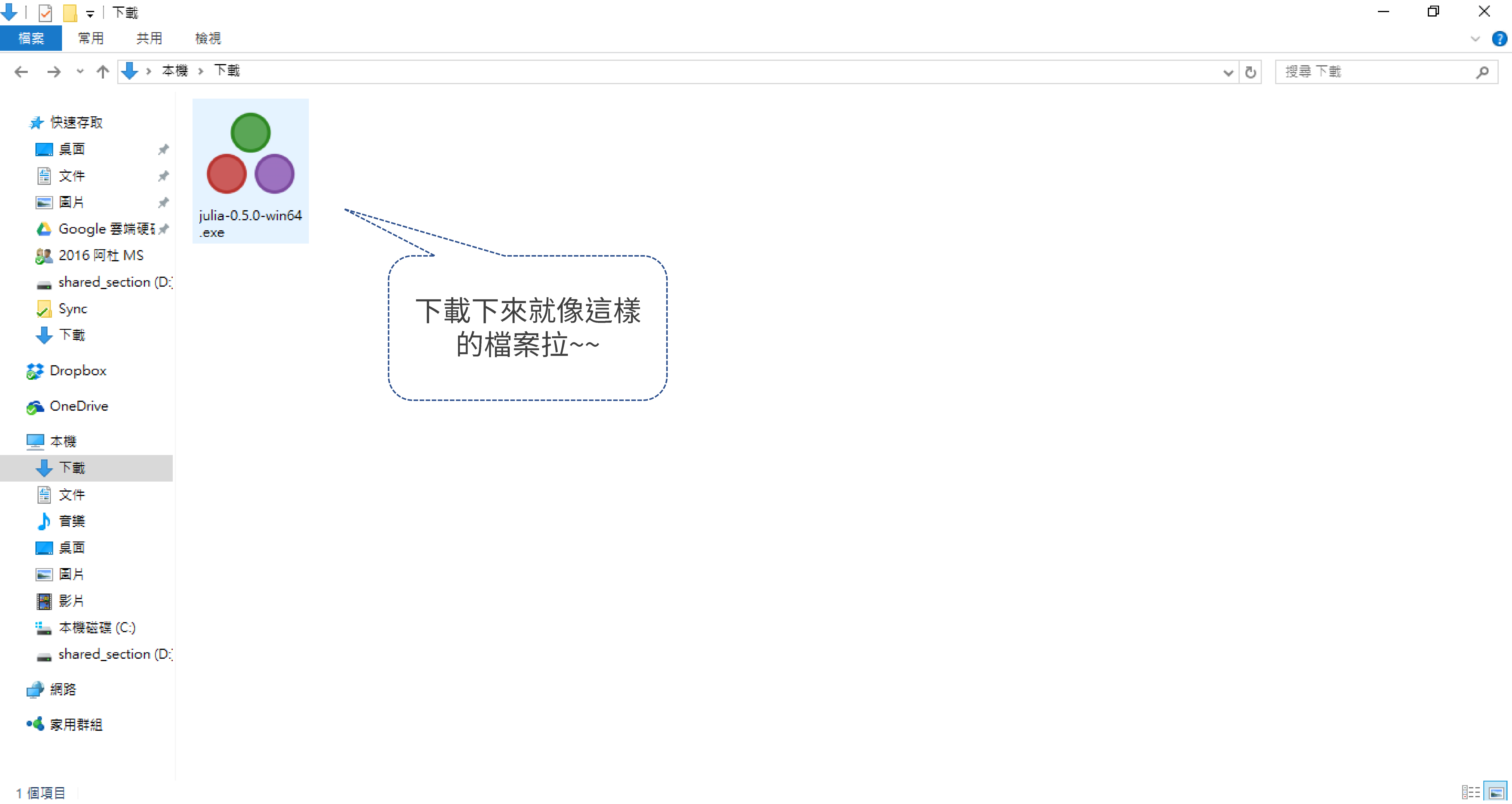
Windows Self-Extracting Archive (.exe)	32-bit	64-bit	
macOS Package (.dmg)	10.7+ 64-bit		
Generic Linux binaries	32-bit (X86) (GPG)	64-bit (X86) (GPG)	
Linux builds for other architectures	ARMv7 32-bit hard float (GPG)	PowerPC 64 little endian (GPG)	
Source	Tarball (GPG)	Tarball with dependencies (GPG)	GitHub

Please see platform specific instructions if you have trouble installing Julia. Checksums for this release are available in both MD5 and SHA256 format.

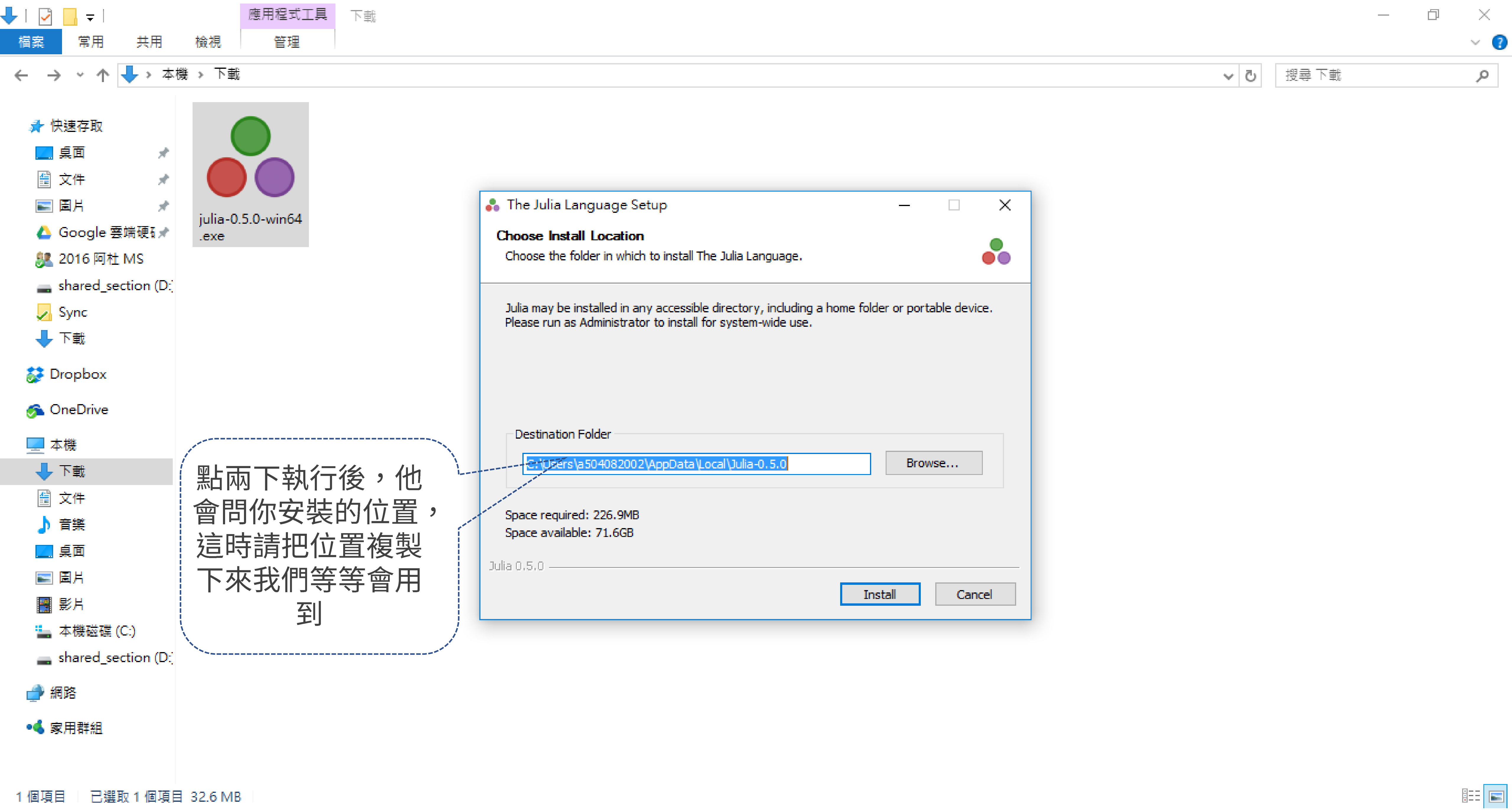
If the provided download files do not work for you, please file an issue in the Julia project.

Juno IDE

Please see the Juno website for setup instructions, and the discussion forum for any questions or issues


下載
檔案
常用
共用
檢視
本機 › 下載
搜尋 下載
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
julia-0.5.0-win64.exe
1 個項目

下載下來就像這樣的檔案拉~~


檔案
常用
共用
檢視
應用程式工具
管理
下載
本機 › 下載
搜尋 下載
快速存取
桌面
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圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
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下載
Dropbox
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本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
julia-0.5.0-win64.exe
1 個項目
已選取 1 個項目 32.6 MB
Browse...
Install
Cancel

The Julia Language Setup

Choose Install Location

Choose the folder in which to install The Julia Language.

Julia may be installed in any accessible directory, including a home folder or portable device.
Please run as Administrator to install for system-wide use.

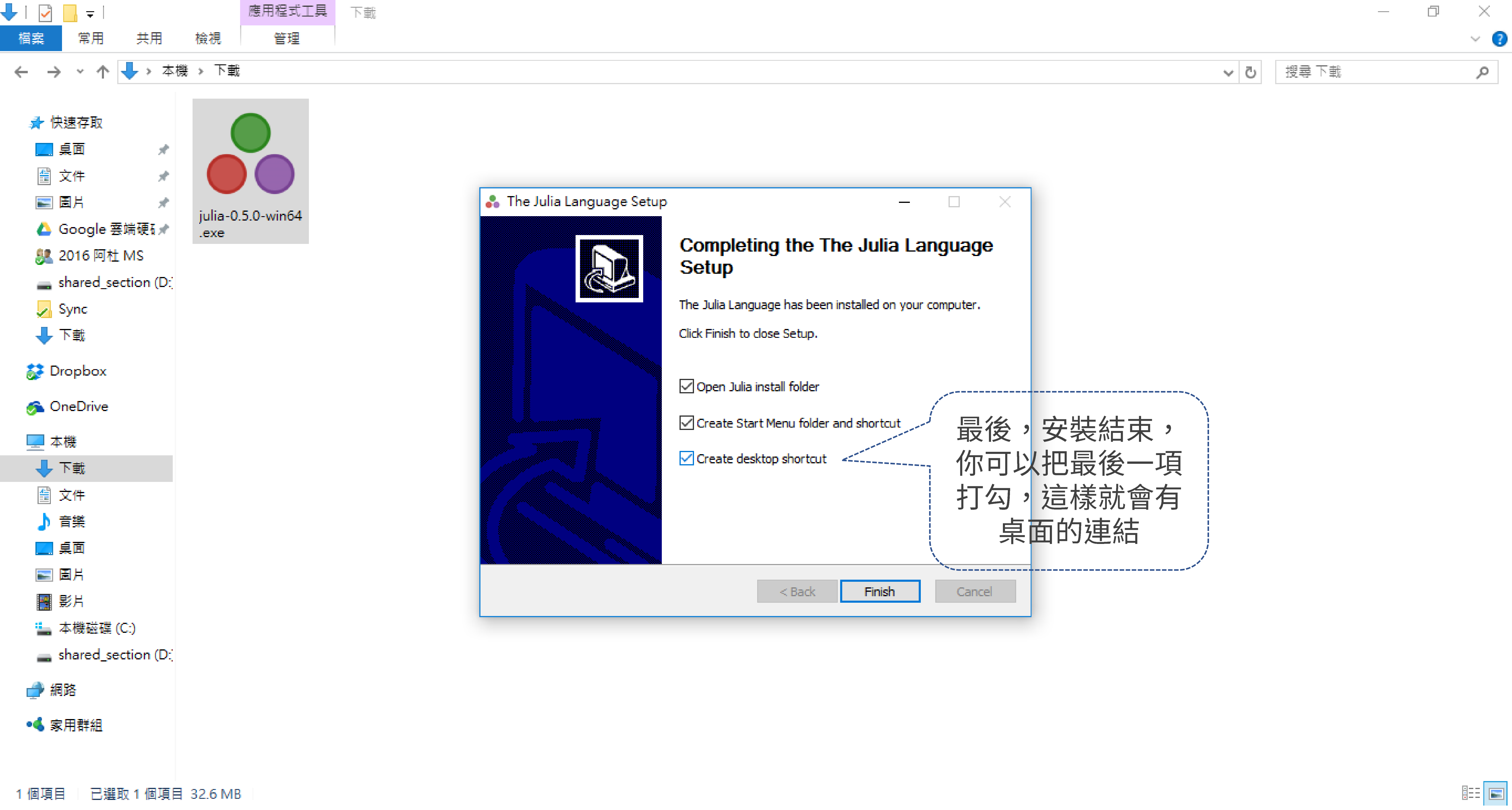
Destination Folder

C:\Users\a504082002\AppData\Local\Julia-0.5.0

Space required: 226.9MB
Space available: 71.6GB

Julia 0.5.0

點兩下執行後，他會問你安裝的位置，這時請把位置複製下來我們等等會用到


應用程式工具
下載
檔案
常用
共用
檢視
管理
本機 › 下載
搜尋 下載
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
julia-0.5.0-win64.exe
1 個項目　已選取 1 個項目 32.6 MB
The Julia Language Setup

Completing the The Julia Language Setup

The Julia Language has been installed on your computer.

Click Finish to close Setup.

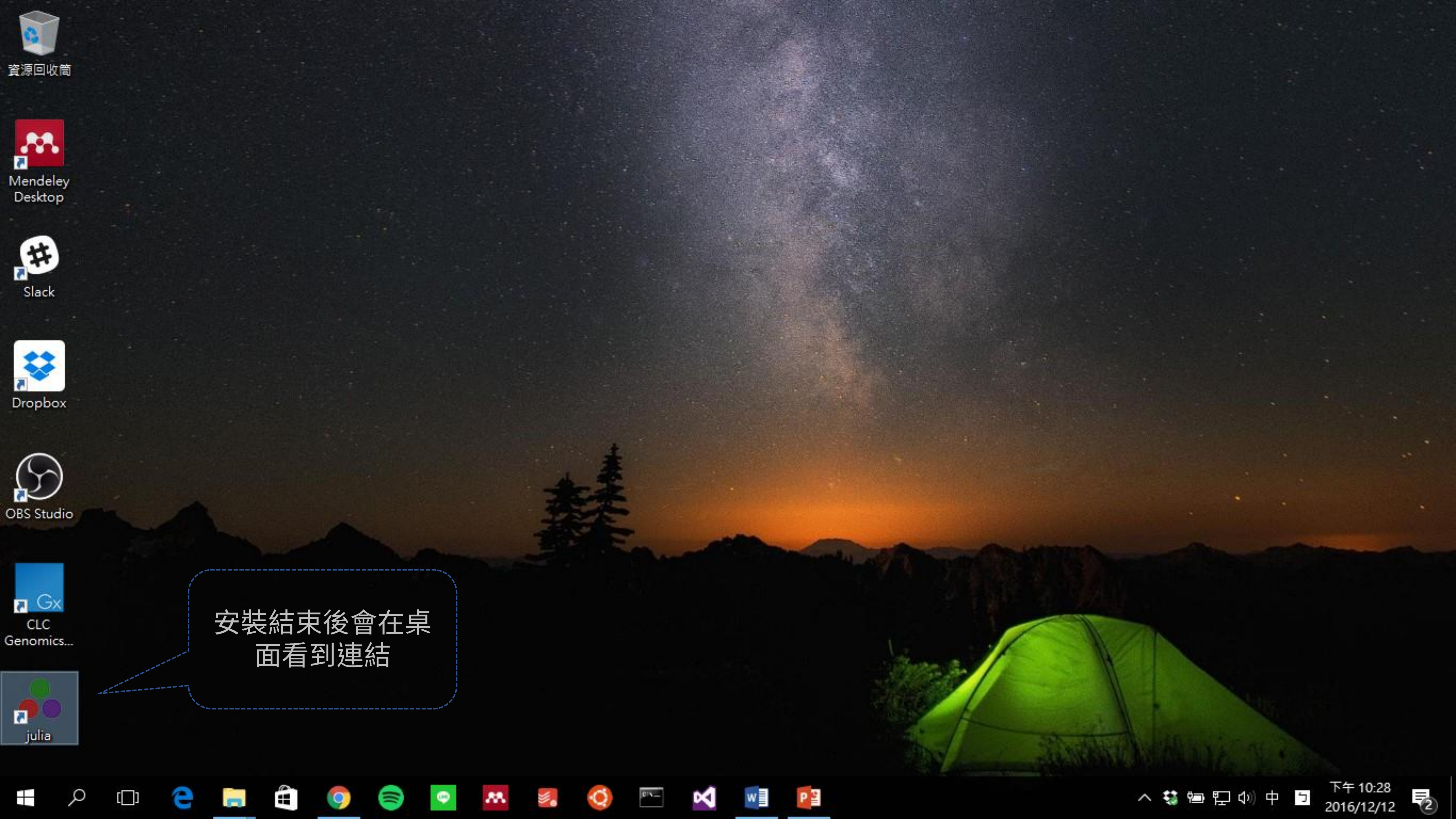
☑ Open Julia install folder

☑ Create Start Menu folder and shortcut

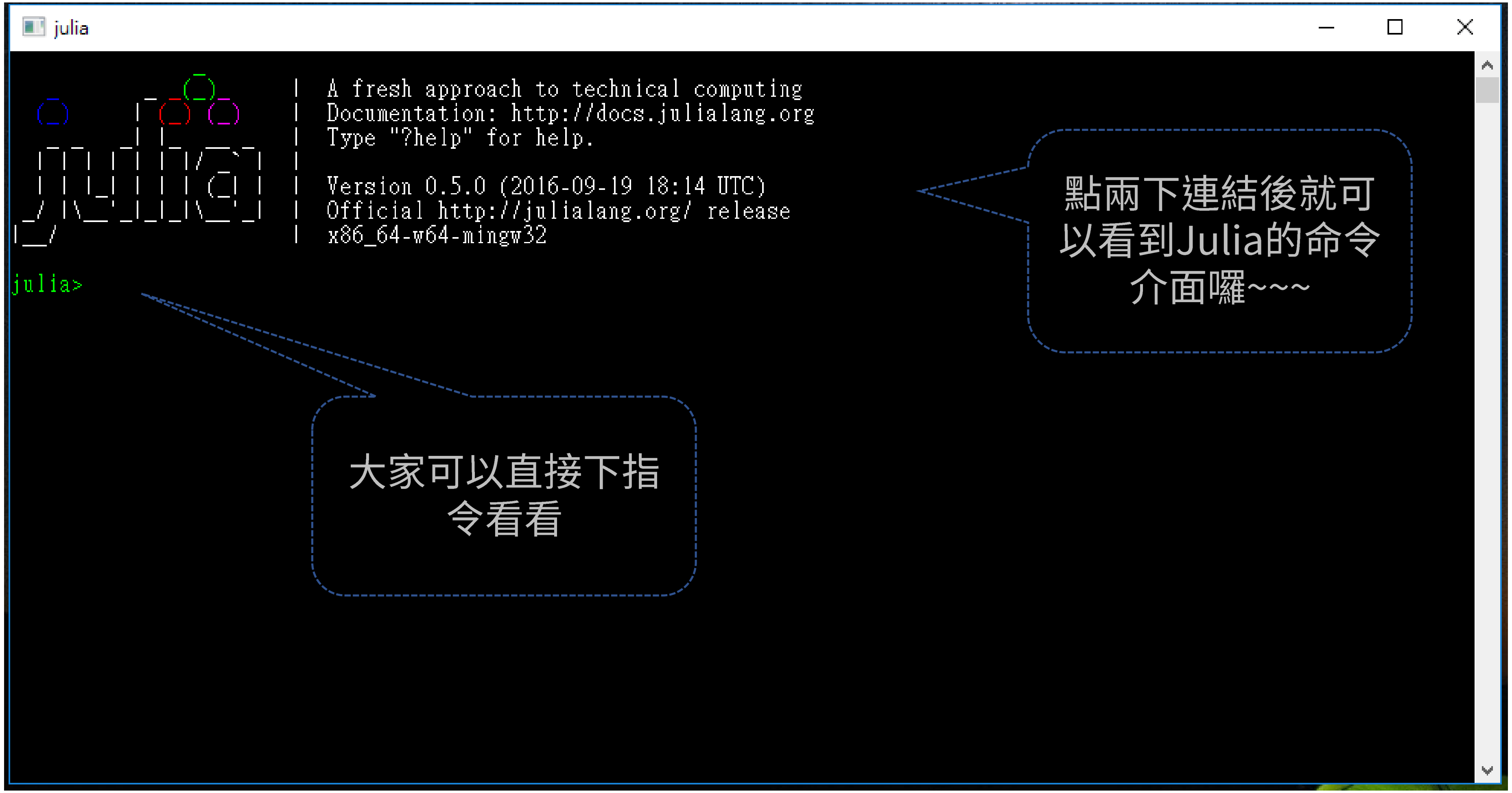
☑ Create desktop shortcut

< Back
Finish
Cancel

最後，安裝結束，你可以把最後一項打勾，這樣就會有桌面的連結


資源回收筒
Mendeley Desktop
Slack
Dropbox
OBS Studio
CLC Genomics...
julia
中
下午 10:28
2016/12/12
2

安裝結束後會在桌面看到連結



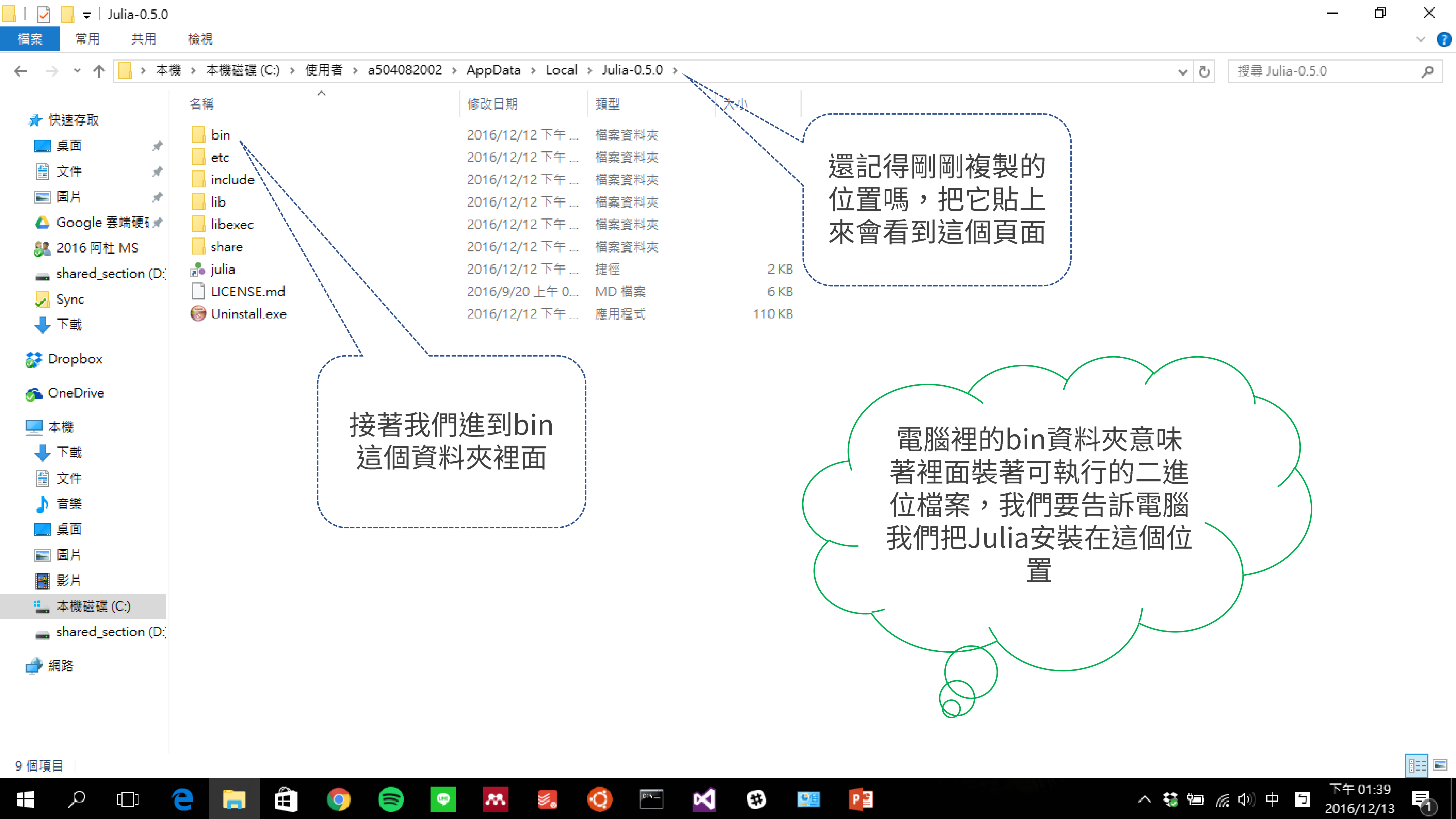
```
               _
   _       _ _(_)_     |  A fresh approach to technical computing
  (_)     | (_) (_)    |  Documentation: http://docs.julialang.org
   _ _   _| |_  __ _   |  Type "?help" for help.
  | | | | | | |/ _` |  |
  | | |_| | | | (_| |  |  Version 0.5.0 (2016-09-19 18:14 UTC)
 _/ |\__'_|_|_|\__'_|  |  Official http://julialang.org/ release
|__/                   |  x86_64-w64-mingw32

julia>
```

點兩下連結後就可以看到Julia的命令介面囉~~~

大家可以直接下指令看看

設定環境變數

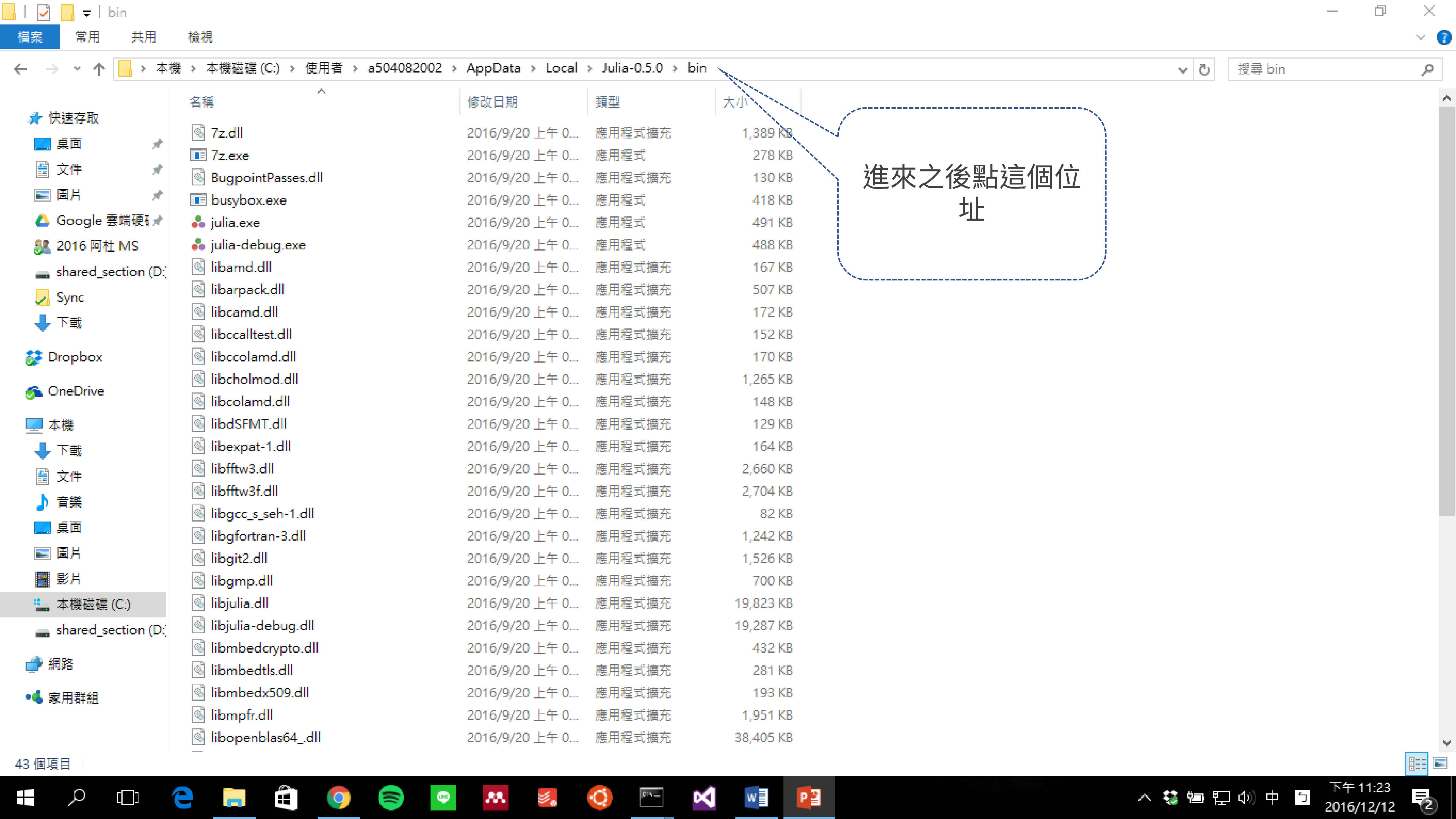

Julia-0.5.0
檔案
常用
共用
檢視
本機 › 本機磁碟 (C:) › 使用者 › a504082002 › AppData › Local › Julia-0.5.0 ›
搜尋 Julia-0.5.0
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
9 個項目
下午 01:39
2016/12/13

名稱	修改日期	類型	大小
bin	2016/12/12 下午 ...	檔案資料夾	
etc	2016/12/12 下午 ...	檔案資料夾	
include	2016/12/12 下午 ...	檔案資料夾	
lib	2016/12/12 下午 ...	檔案資料夾	
libexec	2016/12/12 下午 ...	檔案資料夾	
share	2016/12/12 下午 ...	檔案資料夾	
julia	2016/12/12 下午 ...	捷徑	2 KB
LICENSE.md	2016/9/20 上午 0...	MD 檔案	6 KB
Uninstall.exe	2016/12/12 下午 ...	應用程式	110 KB

還記得剛剛複製的位置嗎，把它貼上來會看到這個頁面

接著我們進到bin這個資料夾裡面

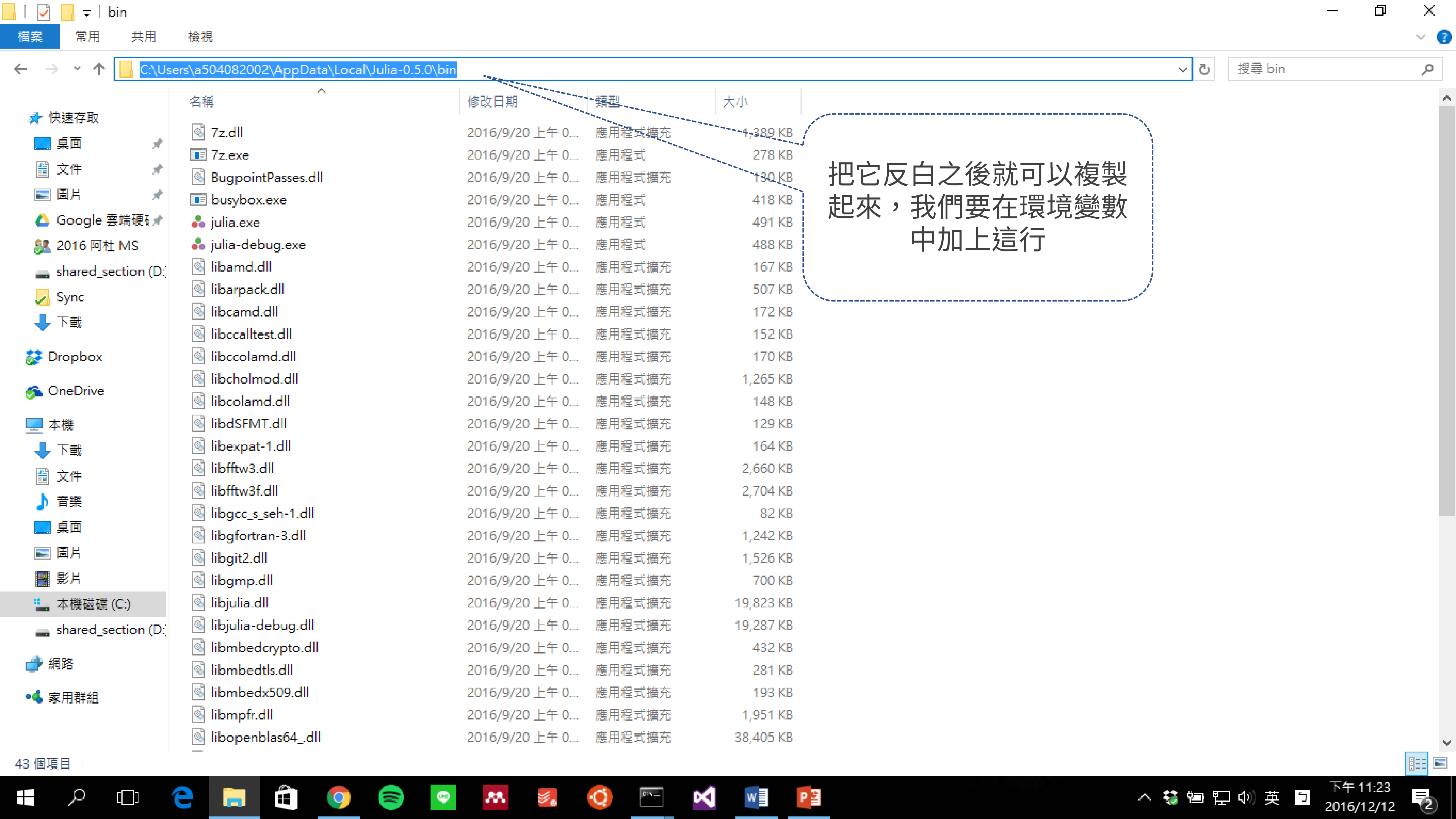
電腦裡的bin資料夾意味著裡面裝著可執行的二進位檔案，我們要告訴電腦我們把Julia安裝在這個位置


bin
檔案
常用
共用
檢視
搜尋 bin
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
43 個項目
下午 11:23
2016/12/12

本機 › 本機磁碟 (C:) › 使用者 › a504082002 › AppData › Local › Julia-0.5.0 › bin

進來之後點這個位址

名稱	修改日期	類型	大小
7z.dll	2016/9/20 上午 0...	應用程式擴充	1,389 KB
7z.exe	2016/9/20 上午 0...	應用程式	278 KB
BugpointPasses.dll	2016/9/20 上午 0...	應用程式擴充	130 KB
busybox.exe	2016/9/20 上午 0...	應用程式	418 KB
julia.exe	2016/9/20 上午 0...	應用程式	491 KB
julia-debug.exe	2016/9/20 上午 0...	應用程式	488 KB
libamd.dll	2016/9/20 上午 0...	應用程式擴充	167 KB
libarpack.dll	2016/9/20 上午 0...	應用程式擴充	507 KB
libcamd.dll	2016/9/20 上午 0...	應用程式擴充	172 KB
libccalltest.dll	2016/9/20 上午 0...	應用程式擴充	152 KB
libccolamd.dll	2016/9/20 上午 0...	應用程式擴充	170 KB
libcholmod.dll	2016/9/20 上午 0...	應用程式擴充	1,265 KB
libcolamd.dll	2016/9/20 上午 0...	應用程式擴充	148 KB
libdSFMT.dll	2016/9/20 上午 0...	應用程式擴充	129 KB
libexpat-1.dll	2016/9/20 上午 0...	應用程式擴充	164 KB
libfftw3.dll	2016/9/20 上午 0...	應用程式擴充	2,660 KB
libfftw3f.dll	2016/9/20 上午 0...	應用程式擴充	2,704 KB
libgcc_s_seh-1.dll	2016/9/20 上午 0...	應用程式擴充	82 KB
libgfortran-3.dll	2016/9/20 上午 0...	應用程式擴充	1,242 KB
libgit2.dll	2016/9/20 上午 0...	應用程式擴充	1,526 KB
libgmp.dll	2016/9/20 上午 0...	應用程式擴充	700 KB
libjulia.dll	2016/9/20 上午 0...	應用程式擴充	19,823 KB
libjulia-debug.dll	2016/9/20 上午 0...	應用程式擴充	19,287 KB
libmbedcrypto.dll	2016/9/20 上午 0...	應用程式擴充	432 KB
libmbedtls.dll	2016/9/20 上午 0...	應用程式擴充	281 KB
libmbedx509.dll	2016/9/20 上午 0...	應用程式擴充	193 KB
libmpfr.dll	2016/9/20 上午 0...	應用程式擴充	1,951 KB
libopenblas64_.dll	2016/9/20 上午 0...	應用程式擴充	38,405 KB


bin
檔案
常用
共用
檢視
搜尋 bin
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:
Sync
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Dropbox
OneDrive
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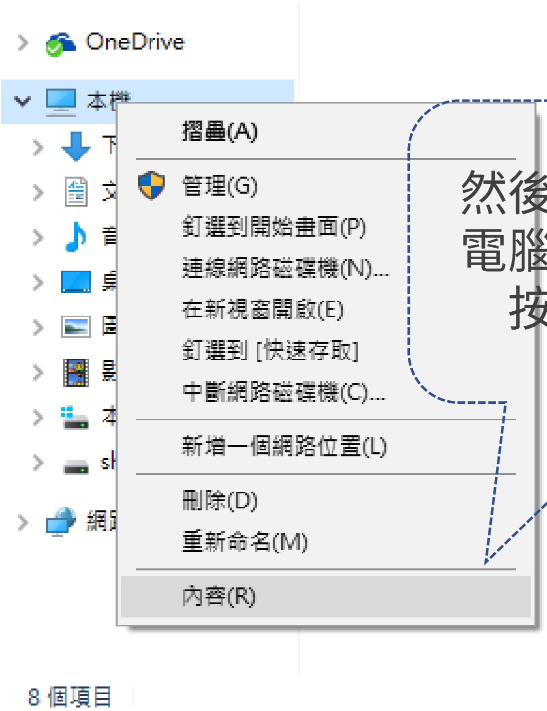
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:
網路
家用群組
43 個項目
英
下午 11:23
2016/12/12

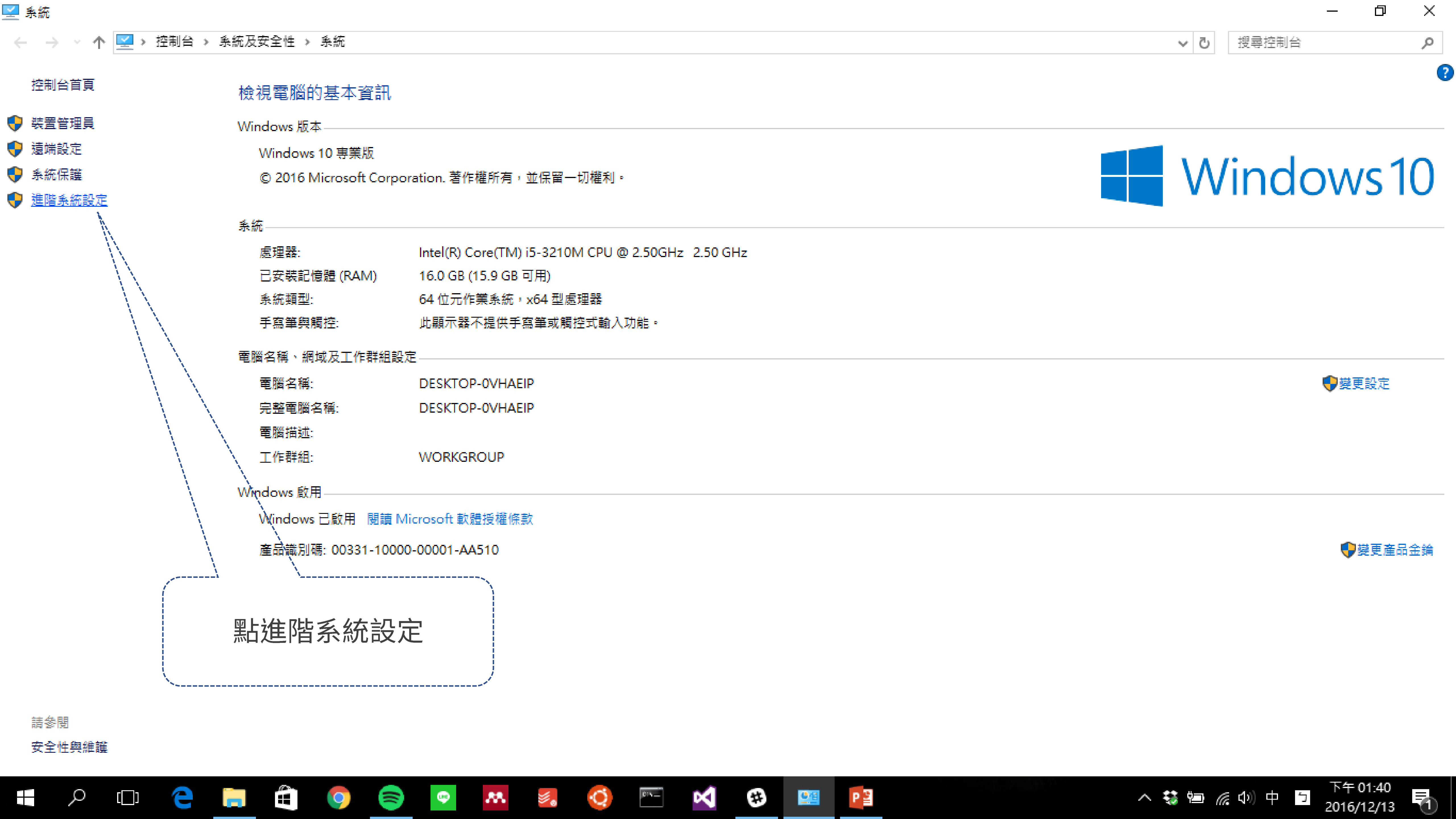
C:\Users\a504082002\AppData\Local\Julia-0.5.0\bin

名稱	修改日期	類型	大小
7z.dll	2016/9/20 上午 0...	應用程式擴充	1,389 KB
7z.exe	2016/9/20 上午 0...	應用程式	278 KB
BugpointPasses.dll	2016/9/20 上午 0...	應用程式擴充	130 KB
busybox.exe	2016/9/20 上午 0...	應用程式	418 KB
julia.exe	2016/9/20 上午 0...	應用程式	491 KB
julia-debug.exe	2016/9/20 上午 0...	應用程式	488 KB
libamd.dll	2016/9/20 上午 0...	應用程式擴充	167 KB
libarpack.dll	2016/9/20 上午 0...	應用程式擴充	507 KB
libcamd.dll	2016/9/20 上午 0...	應用程式擴充	172 KB
libccalltest.dll	2016/9/20 上午 0...	應用程式擴充	152 KB
libccolamd.dll	2016/9/20 上午 0...	應用程式擴充	170 KB
libcholmod.dll	2016/9/20 上午 0...	應用程式擴充	1,265 KB
libcolamd.dll	2016/9/20 上午 0...	應用程式擴充	148 KB
libdSFMT.dll	2016/9/20 上午 0...	應用程式擴充	129 KB
libexpat-1.dll	2016/9/20 上午 0...	應用程式擴充	164 KB
libfftw3.dll	2016/9/20 上午 0...	應用程式擴充	2,660 KB
libfftw3f.dll	2016/9/20 上午 0...	應用程式擴充	2,704 KB
libgcc_s_seh-1.dll	2016/9/20 上午 0...	應用程式擴充	82 KB
libgfortran-3.dll	2016/9/20 上午 0...	應用程式擴充	1,242 KB
libgit2.dll	2016/9/20 上午 0...	應用程式擴充	1,526 KB
libgmp.dll	2016/9/20 上午 0...	應用程式擴充	700 KB
libjulia.dll	2016/9/20 上午 0...	應用程式擴充	19,823 KB
libjulia-debug.dll	2016/9/20 上午 0...	應用程式擴充	19,287 KB
libmbedcrypto.dll	2016/9/20 上午 0...	應用程式擴充	432 KB
libmbedtls.dll	2016/9/20 上午 0...	應用程式擴充	281 KB
libmbedx509.dll	2016/9/20 上午 0...	應用程式擴充	193 KB
libmpfr.dll	2016/9/20 上午 0...	應用程式擴充	1,951 KB
libopenblas64_.dll	2016/9/20 上午 0...	應用程式擴充	38,405 KB

把它反白之後就可以複製起來，我們要在環境變數中加上這行


OneDrive
本機
摺疊(A)
管理(G)
釘選到開始畫面(P)
連線網路磁碟機(N)...
在新視窗開啟(E)
釘選到 [快速存取]
中斷網路磁碟機(C)...
新增一個網路位置(L)
刪除(D)
重新命名(M)
內容(R)
8 個項目

然後你就可以到”我的
電腦”或是”本機”，
按右鍵選”內容”


系統
控制台 › 系統及安全性 › 系統
搜尋控制台
控制台首頁
裝置管理員
遠端設定
系統保護
進階系統設定
請參閱
安全性與維護
Windows10
變更設定
變更產品金鑰
下午 01:40
2016/12/13

檢視電腦的基本資訊

Windows 版本

Windows 10 專業版
© 2016 Microsoft Corporation. 著作權所有，並保留一切權利。

系統

處理器:	Intel(R) Core(TM) i5-3210M CPU @ 2.50GHz 2.50 GHz
已安裝記憶體 (RAM)	16.0 GB (15.9 GB 可用)
系統類型:	64 位元作業系統，x64 型處理器
手寫筆與觸控:	此顯示器不提供手寫筆或觸控式輸入功能。

電腦名稱、網域及工作群組設定

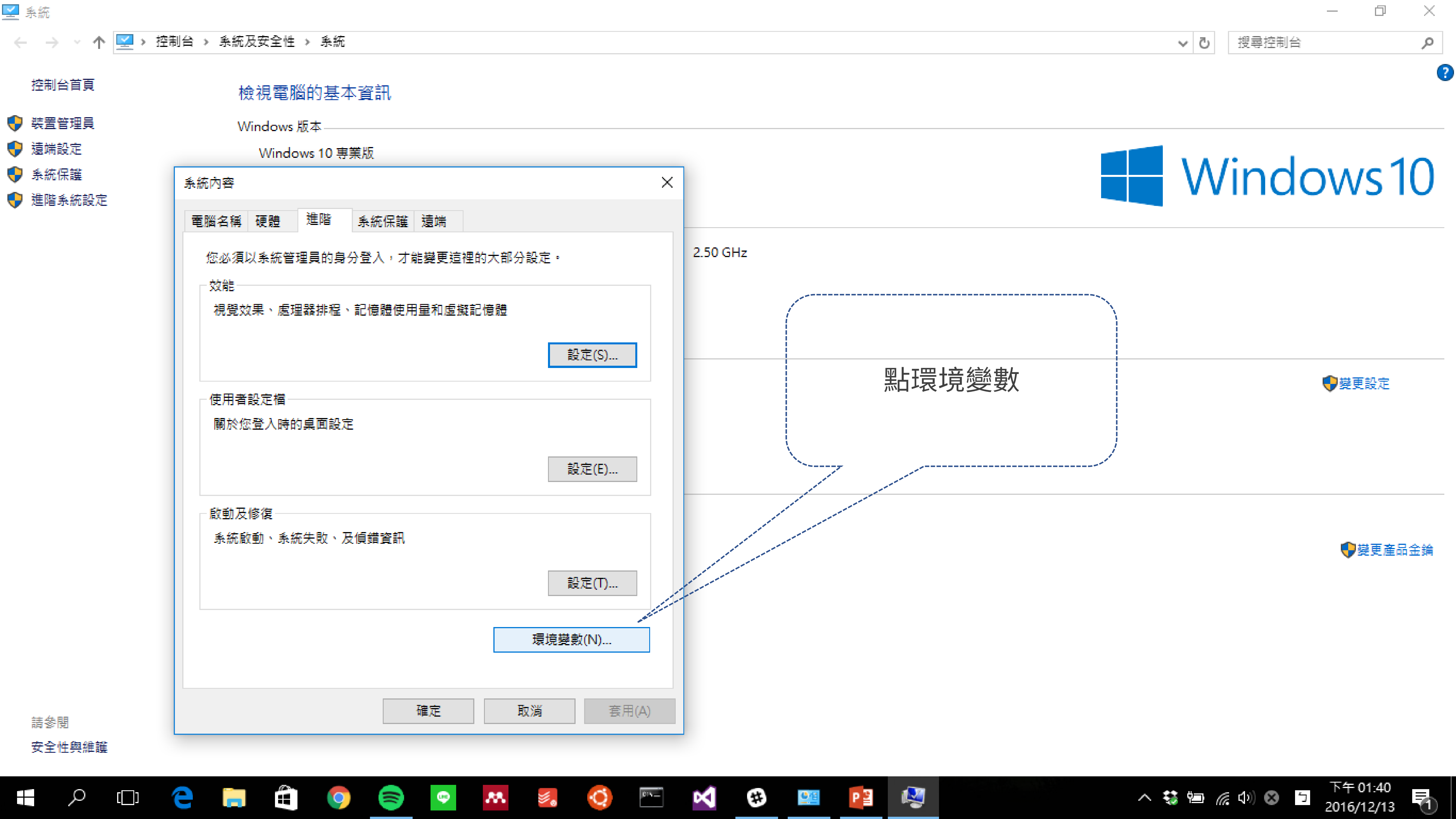
電腦名稱:	DESKTOP-0VHAEIP
完整電腦名稱:	DESKTOP-0VHAEIP
電腦描述:	
工作群組:	WORKGROUP

Windows 啟用

Windows 已啟用 閱讀 Microsoft 軟體授權條款

產品識別碼: 00331-10000-00001-AA510

點進階系統設定



檢視電腦的基本資訊

Windows 版本

Windows 10 專業版

2.50 GHz

系統內容

您必須以系統管理員的身分登入，才能變更這裡的大部分設定。

效能

視覺效果、處理器排程、記憶體使用量和虛擬記憶體

使用者設定檔

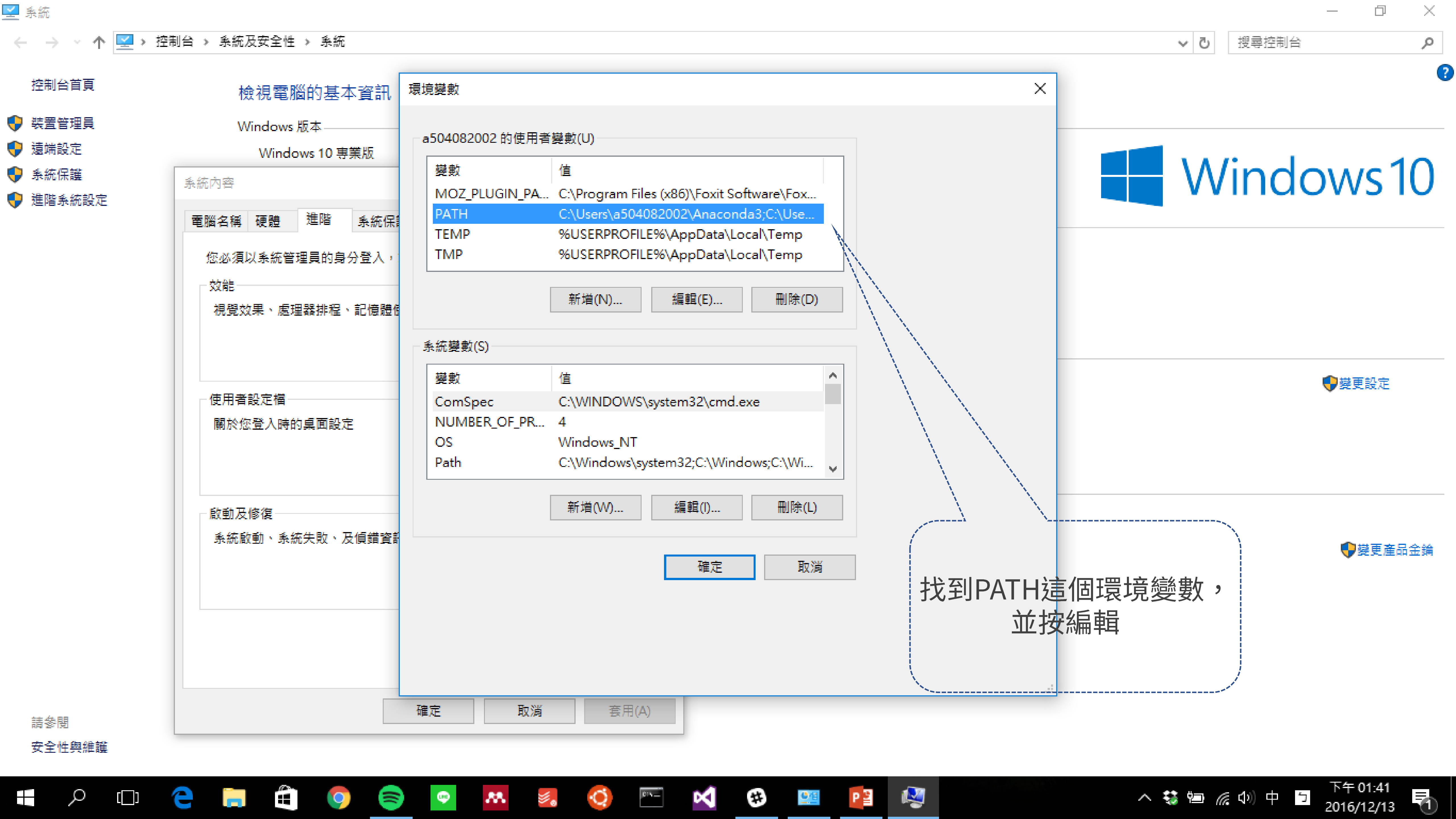
關於您登入時的桌面設定

啟動及修復

系統啟動、系統失敗、及偵錯資訊

系統
控制台 › 系統及安全性 › 系統
搜尋控制台
控制台首頁
裝置管理員
遠端設定
系統保護
進階系統設定
請參閱
安全性與維護
Windows 10
變更設定
變更產品金鑰
電腦名稱
硬體
進階
系統保護
遠端
設定(S)...
設定(E)...
設定(T)...
環境變數(N)...
確定
取消
套用(A)
下午 01:40
2016/12/13

點環境變數


系統
控制台 › 系統及安全性 › 系統
搜尋控制台
控制台首頁
裝置管理員
遠端設定
系統保護
進階系統設定
檢視電腦的基本資訊
Windows 版本
Windows 10 專業版
系統內容
電腦名稱
硬體
進階
系統保護
您必須以系統管理員的身分登入，
效能
視覺效果、處理器排程、記憶體使
使用者設定檔
關於您登入時的桌面設定
啟動及修復
系統啟動、系統失敗，及偵錯資訊
確定
取消
套用(A)
請參閱
安全性與維護
Windows 10
變更設定
變更產品金鑰
下午 01:41
2016/12/13

環境變數

a504082002 的使用者變數(U)

變數	值
MOZ_PLUGIN_PA...	C:\Program Files (x86)\Foxit Software\Fox...
PATH	C:\Users\a504082002\Anaconda3;C:\Use...
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp

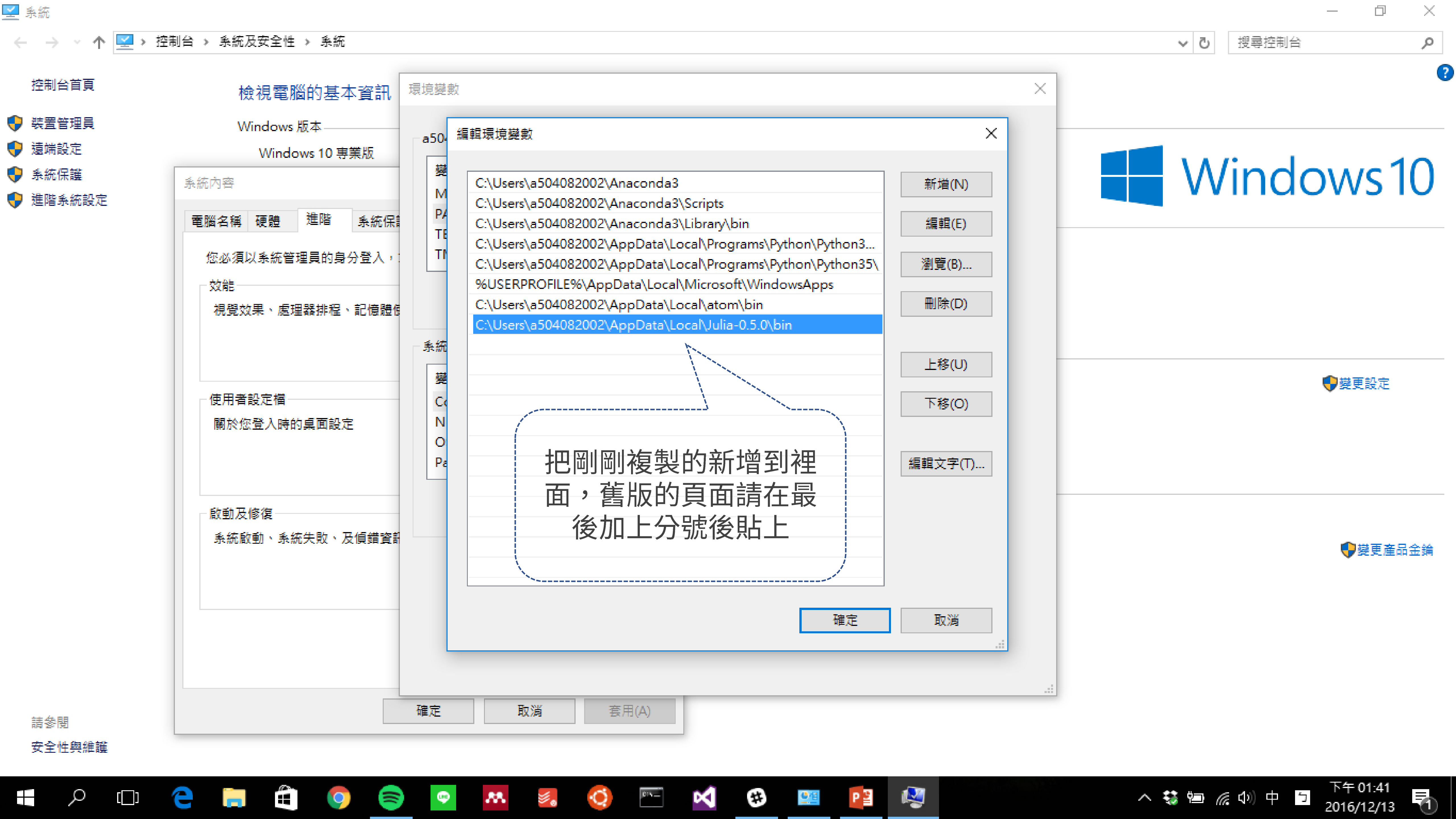
新增(N)...
編輯(E)...
刪除(D)

系統變數(S)

變數	值
ComSpec	C:\WINDOWS\system32\cmd.exe
NUMBER_OF_PR...	4
OS	Windows_NT
Path	C:\Windows\system32;C:\Windows;C:\Wi...

新增(W)...
編輯(I)...
刪除(L)
確定
取消

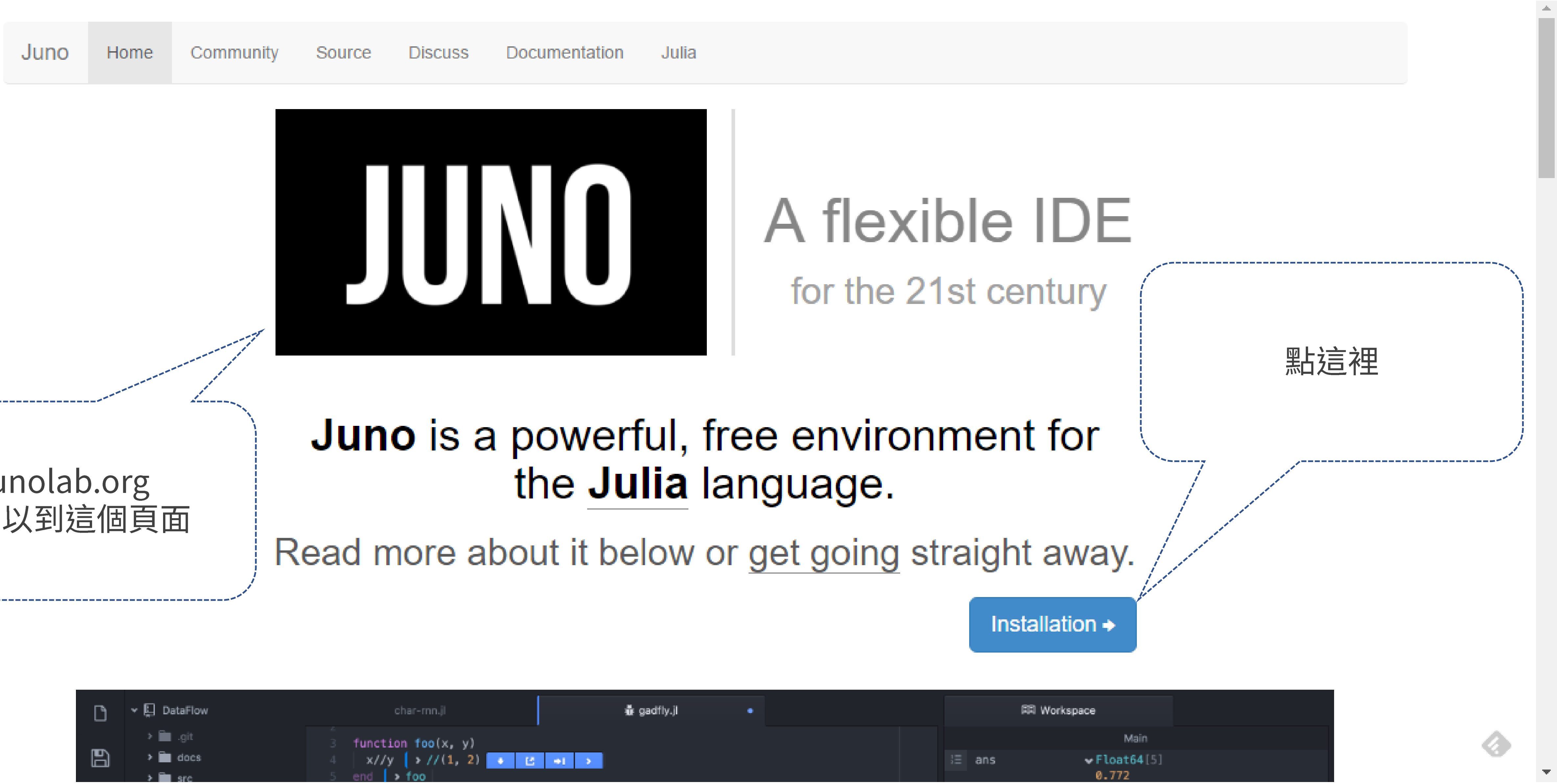
找到PATH這個環境變數，
並按編輯


系統
控制台 › 系統及安全性 › 系統
搜尋控制台
控制台首頁
裝置管理員
遠端設定
系統保護
進階系統設定
檢視電腦的基本資訊
Windows 版本
Windows 10 專業版
系統內容
電腦名稱
硬體
進階
系統保護
您必須以系統管理員的身分登入，
效能
視覺效果、處理器排程、記憶體使
使用者設定檔
關於您登入時的桌面設定
啟動及修復
系統啟動、系統失敗、及偵錯資訊
確定
取消
套用(A)
環境變數
編輯環境變數
新增(N)
編輯(E)
瀏覽(B)...
刪除(D)
上移(U)
下移(O)
編輯文字(T)...
確定
取消
Windows 10
變更設定
變更產品金鑰
請參閱
安全性與維護
中
下午 01:41
2016/12/13

```
C:\Users\a504082002\Anaconda3
C:\Users\a504082002\Anaconda3\Scripts
C:\Users\a504082002\Anaconda3\Library\bin
C:\Users\a504082002\AppData\Local\Programs\Python\Python3...
C:\Users\a504082002\AppData\Local\Programs\Python\Python35\
%USERPROFILE%\AppData\Local\Microsoft\WindowsApps
C:\Users\a504082002\AppData\Local\atom\bin
C:\Users\a504082002\AppData\Local\Julia-0.5.0\bin
```

把剛剛複製的新增到裡面，舊版的頁面請在最後加上分號後貼上

Juno安裝


Juno
Home
Community
Source
Discuss
Documentation
Julia
JUNO

A flexible IDE

for the 21st century

Juno is a powerful, free environment for the **Julia** language.

Read more about it below or get going straight away.

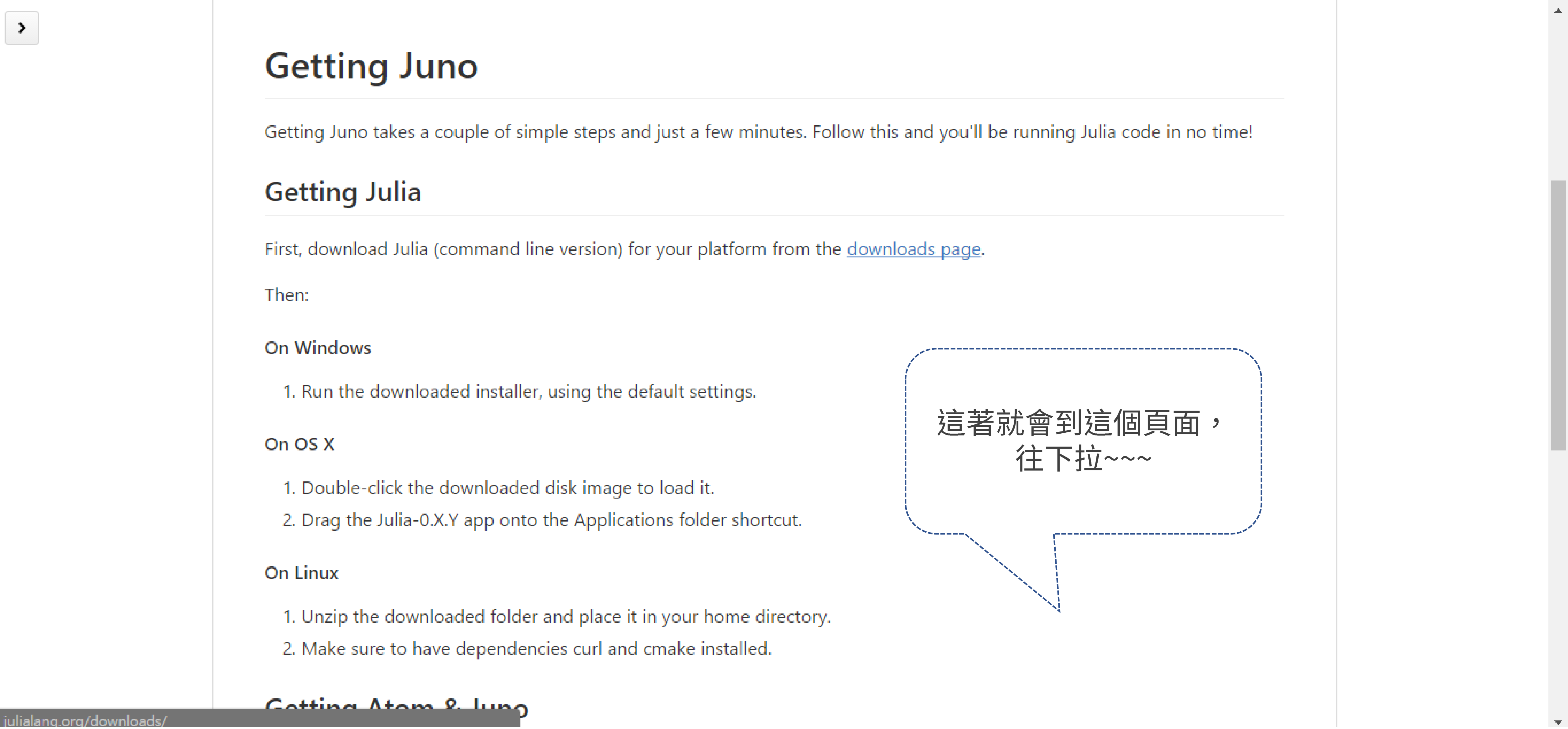
Installation ➜

DataFlow
.git
docs
src
char-mn.jl
gadfly.jl
Workspace
Main
ans
Float64[5]
0.772

```
function foo(x, y)
  x//y  › //(1, 2)
end  › foo
```

junolab.org
就可以到這個頁面

點這裡



Getting Juno

Getting Juno takes a couple of simple steps and just a few minutes. Follow this and you'll be running Julia code in no time!

Getting Julia

First, download Julia (command line version) for your platform from the [downloads page](julialang.org/downloads/).

Then:

On Windows

1. Run the downloaded installer, using the default settings.

On OS X

1. Double-click the downloaded disk image to load it.
2. Drag the Julia-0.X.Y app onto the Applications folder shortcut.

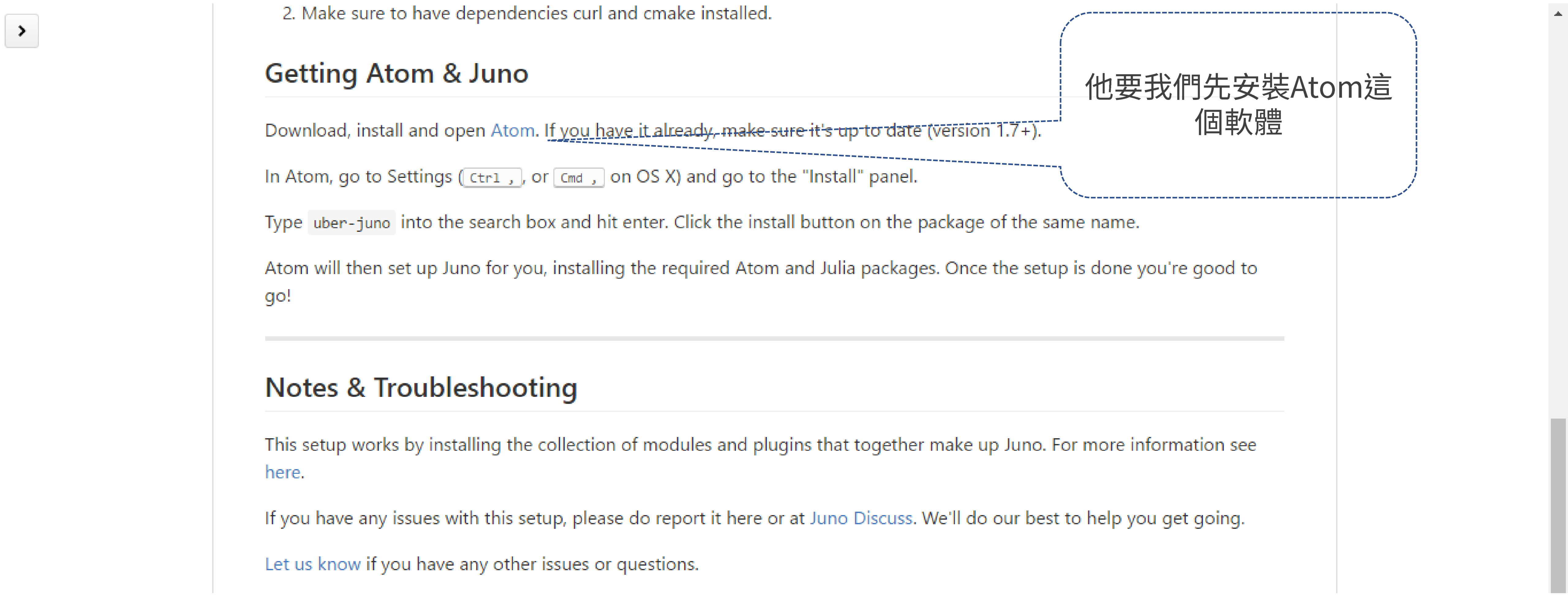
On Linux

1. Unzip the downloaded folder and place it in your home directory.
2. Make sure to have dependencies curl and cmake installed.

Getting Atom & Juno

julialang.org/downloads/

這著就會到這個頁面，
往下拉~~~



2. Make sure to have dependencies curl and cmake installed.

Getting Atom & Juno

Download, install and open Atom. If you have it already, make sure it's up to date (version 1.7+).

In Atom, go to Settings (`Ctrl ,`, or `Cmd ,` on OS X) and go to the "Install" panel.

Type `uber-juno` into the search box and hit enter. Click the install button on the package of the same name.

Atom will then set up Juno for you, installing the required Atom and Julia packages. Once the setup is done you're good to go!

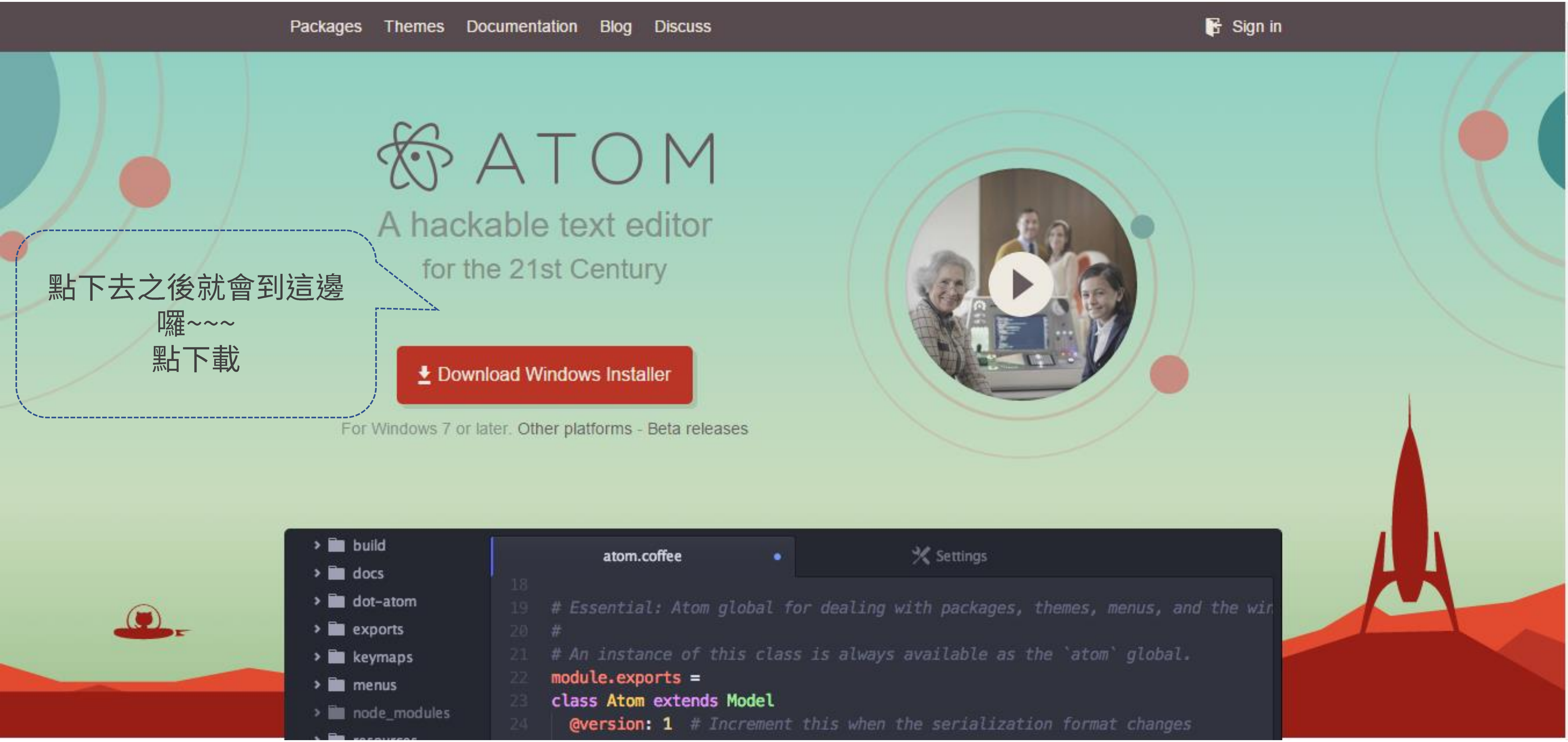
Notes & Troubleshooting

This setup works by installing the collection of modules and plugins that together make up Juno. For more information see here.

If you have any issues with this setup, please do report it here or at Juno Discuss. We'll do our best to help you get going.

Let us know if you have any other issues or questions.

他要我們先安裝Atom這個軟體


Packages
Themes
Documentation
Blog
Discuss
Sign in
Download Windows Installer
atom.coffee
Settings
build
docs
dot-atom
exports
keymaps
menus
node_modules

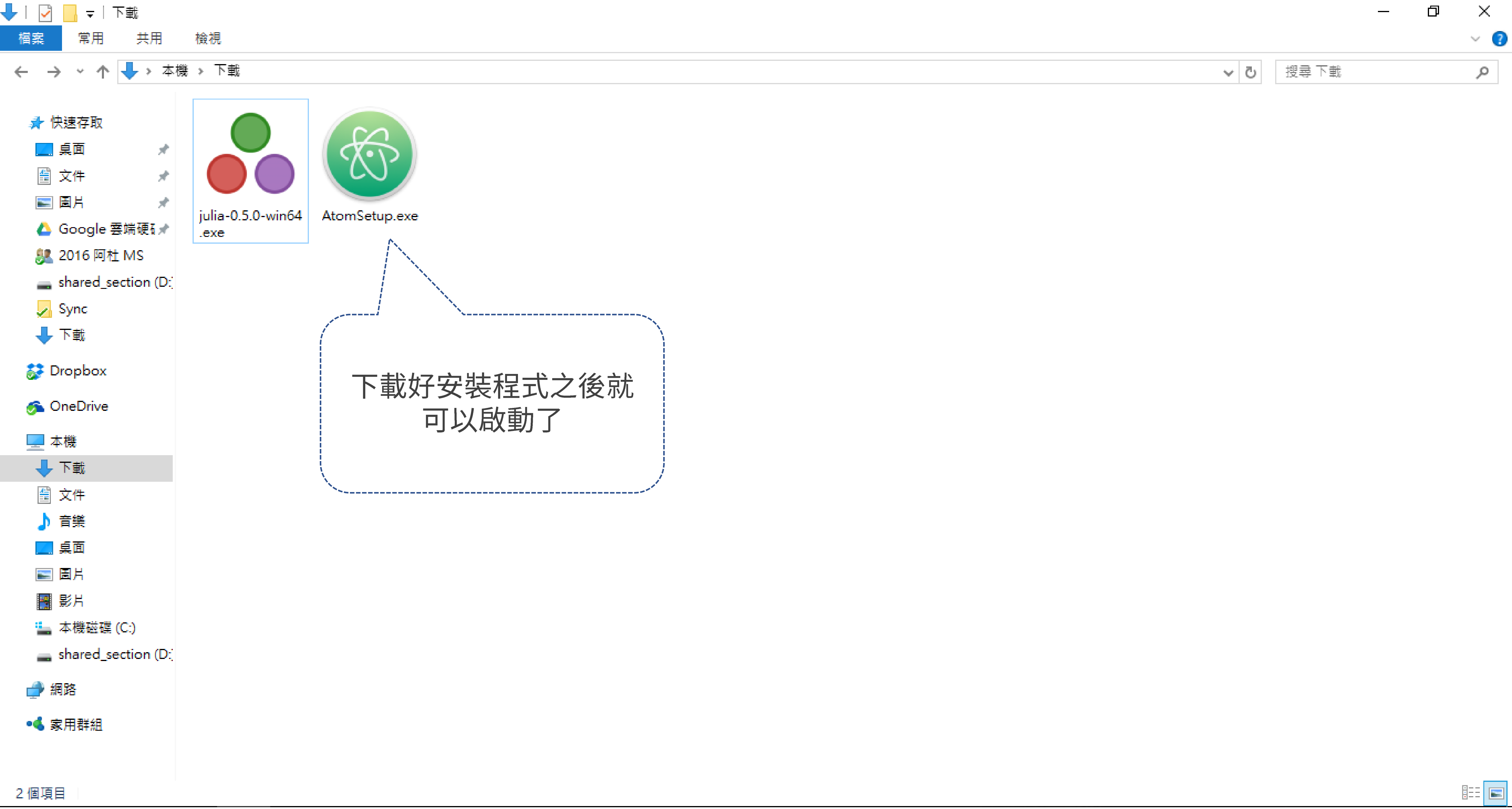
ATOM

A hackable text editor
for the 21st Century

For Windows 7 or later. Other platforms - Beta releases

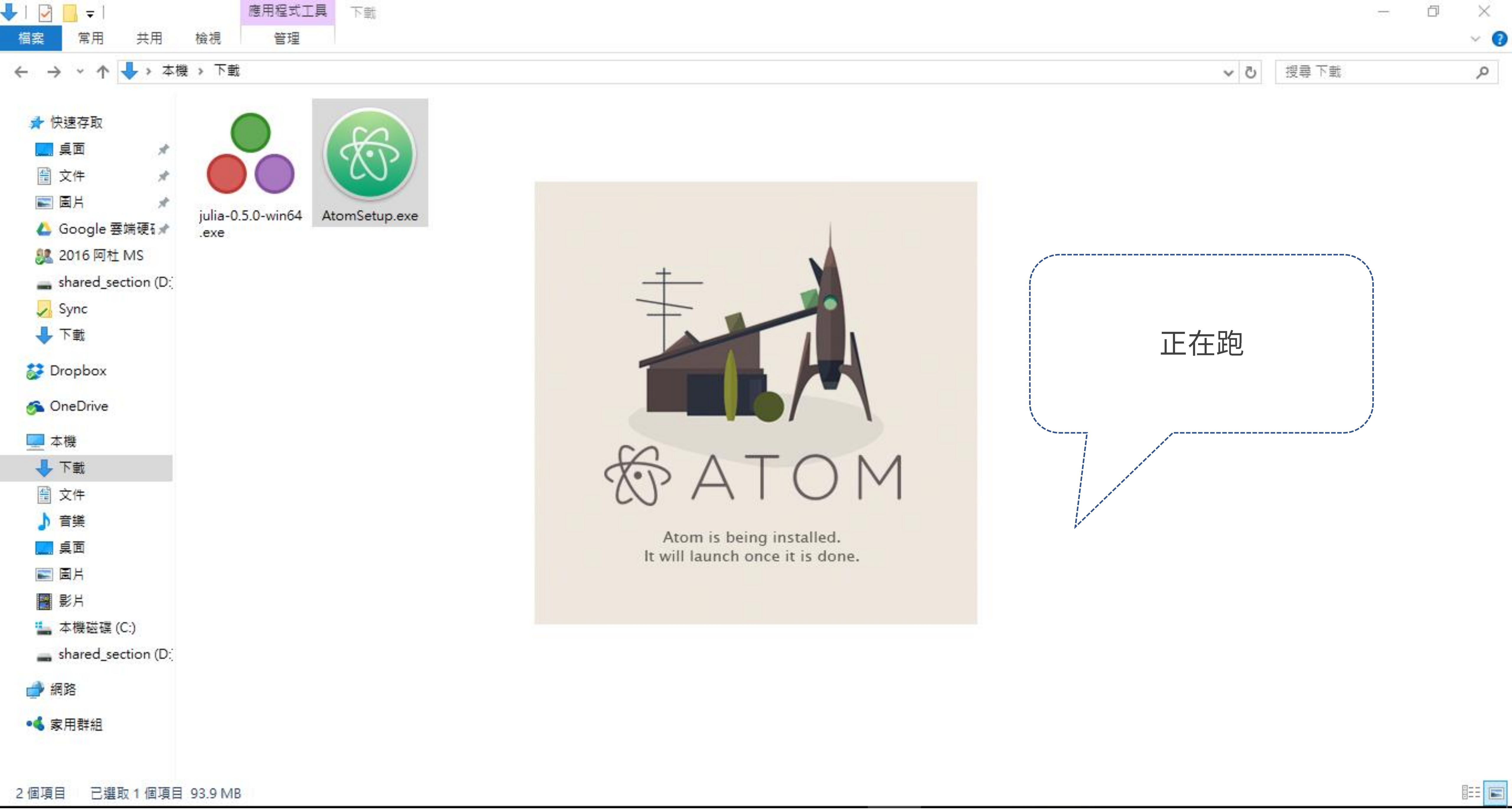
```
# Essential: Atom global for dealing with packages, themes, menus, and the wi
#
# An instance of this class is always available as the `atom` global.
module.exports =
class Atom extends Model
  @version: 1  # Increment this when the serialization format changes
```

點下去之後就會到這邊
囉~~~
點下載



下載好安裝程式之後就可以啟動了

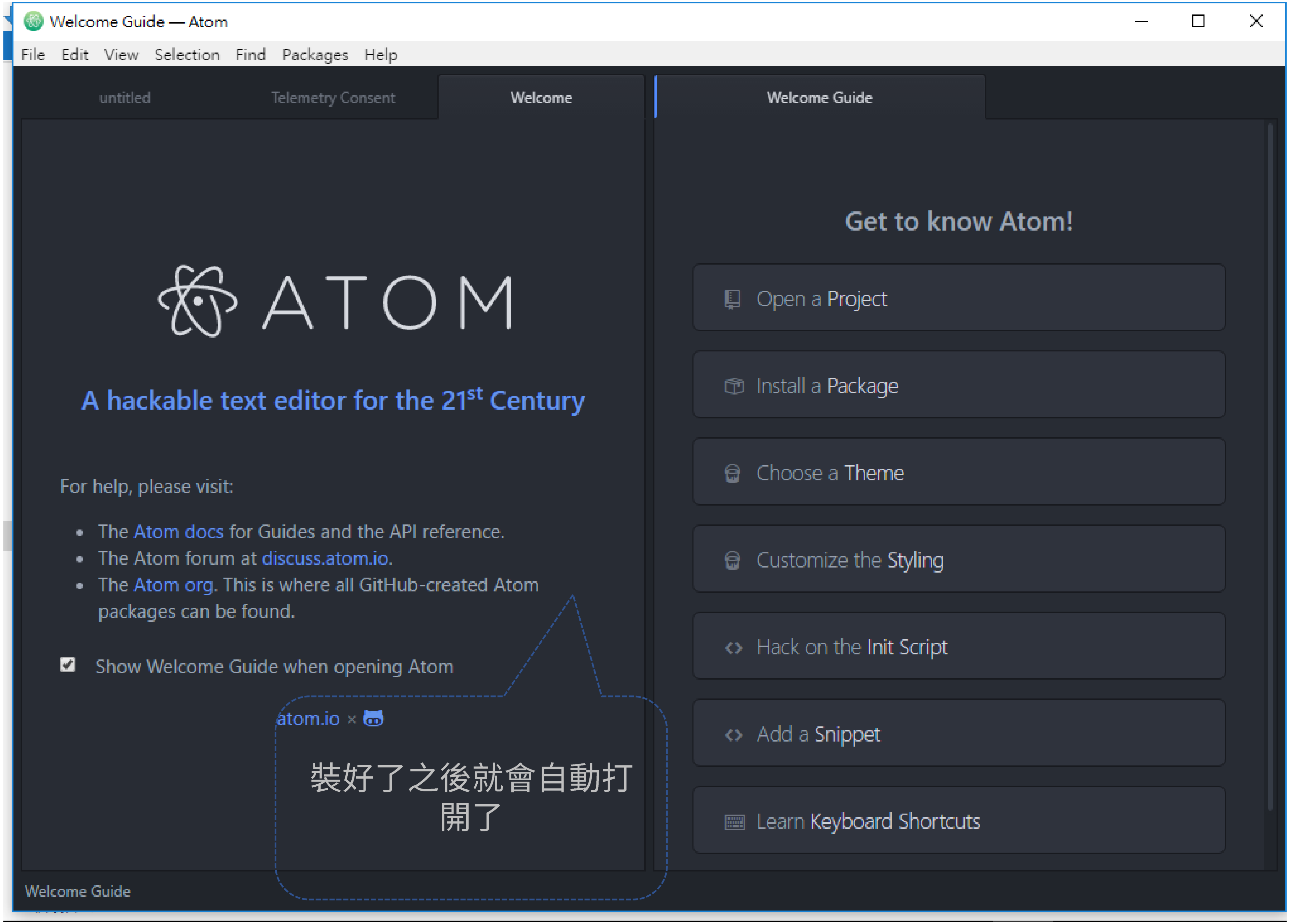
下載
檔案
常用
共用
檢視
本機 › 下載
搜尋 下載
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
julia-0.5.0-win64.exe
AtomSetup.exe
2 個項目


應用程式工具
下載
檔案
常用
共用
檢視
管理
本機 › 下載
搜尋 下載
快速存取
桌面
文件
圖片
Google 雲端硬碟
2016 阿杜 MS
shared_section (D:)
Sync
下載
Dropbox
OneDrive
本機
下載
文件
音樂
桌面
圖片
影片
本機磁碟 (C:)
shared_section (D:)
網路
家用群組
julia-0.5.0-win64.exe
AtomSetup.exe
ATOM

Atom is being installed.
It will launch once it is done.

2 個項目 已選取 1 個項目 93.9 MB

正在跑


Welcome Guide — Atom
File
Edit
View
Selection
Find
Packages
Help
untitled
Telemetry Consent
Welcome
Welcome Guide
ATOM

A hackable text editor for the 21st Century

For help, please visit:

- The Atom docs for Guides and the API reference.
- The Atom forum at discuss.atom.io.
- The Atom org. This is where all GitHub-created Atom packages can be found.

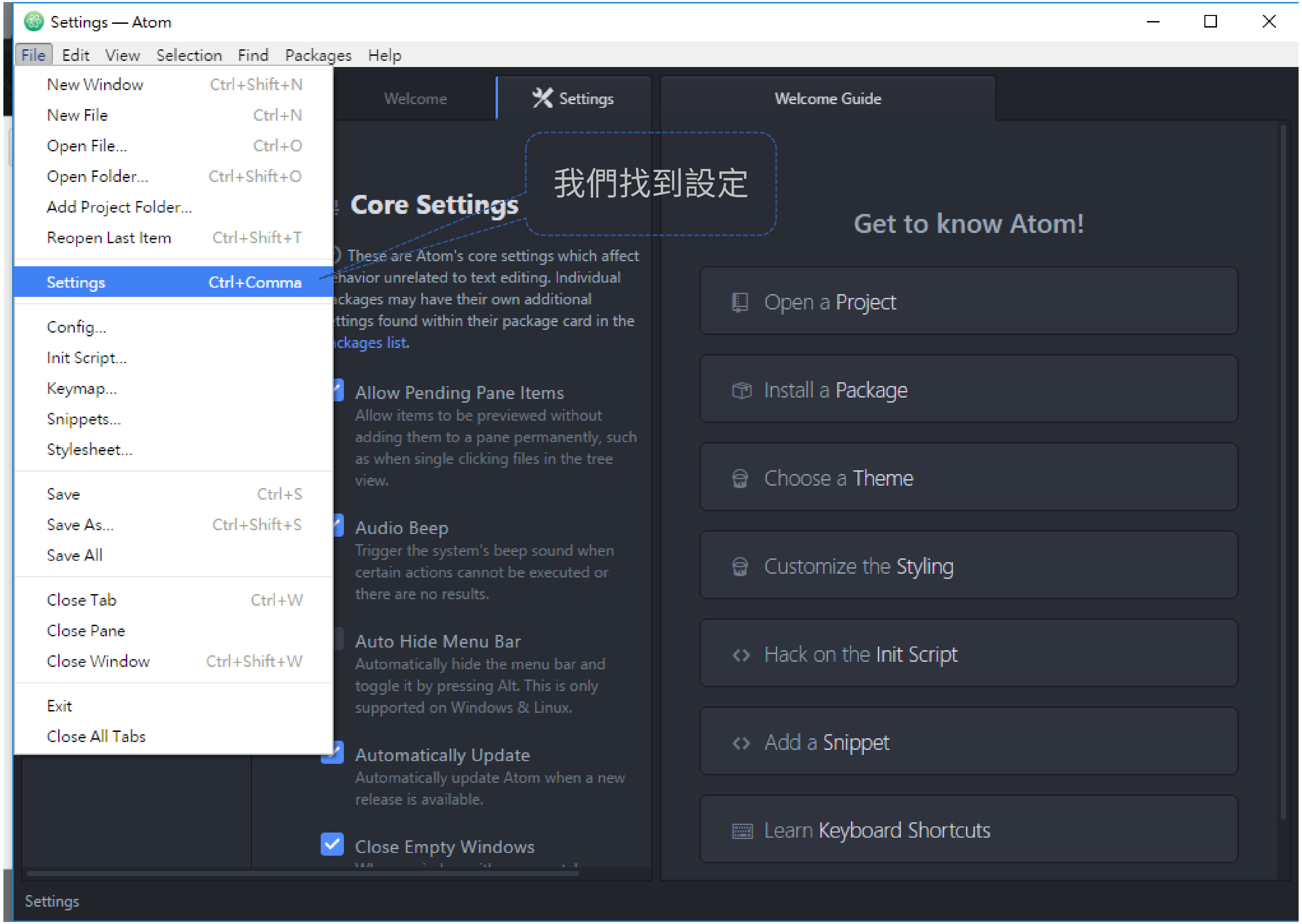
☑ Show Welcome Guide when opening Atom

atom.io ×

Get to know Atom!

Open a Project
Install a Package
Choose a Theme
Customize the Styling
Hack on the Init Script
Add a Snippet
Learn Keyboard Shortcuts
Welcome Guide

裝好了之後就會自動打開了


Settings — Atom
File
Edit
View
Selection
Find
Packages
Help
New Window Ctrl+Shift+N
New File Ctrl+N
Open File... Ctrl+O
Open Folder... Ctrl+Shift+O
Add Project Folder...
Reopen Last Item Ctrl+Shift+T
Settings Ctrl+Comma
Config...
Init Script...
Keymap...
Snippets...
Stylesheet...
Save Ctrl+S
Save As... Ctrl+Shift+S
Save All
Close Tab Ctrl+W
Close Pane
Close Window Ctrl+Shift+W
Exit
Close All Tabs
Welcome
Settings
Welcome Guide
Get to know Atom!
Open a Project
Install a Package
Choose a Theme
Customize the Styling
Hack on the Init Script
Add a Snippet
Learn Keyboard Shortcuts
Settings

我們找到設定

Core Settings

These are Atom's core settings which affect ehavior unrelated to text editing. Individual ckages may have their own additional ttings found within their package card in the ckages list.

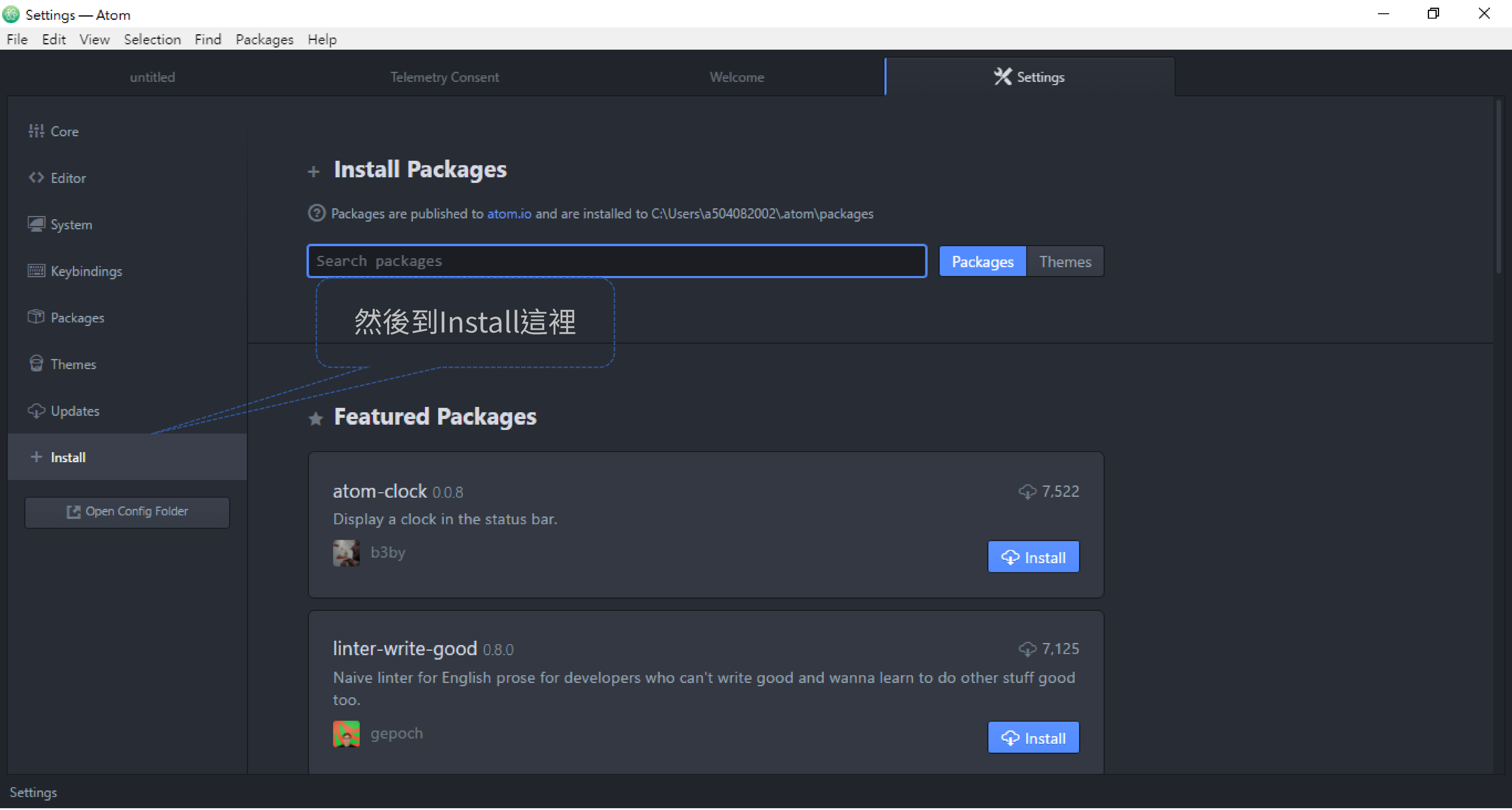
☑ **Allow Pending Pane Items**
Allow items to be previewed without adding them to a pane permanently, such as when single clicking files in the tree view.

☑ **Audio Beep**
Trigger the system's beep sound when certain actions cannot be executed or there are no results.

☐ **Auto Hide Menu Bar**
Automatically hide the menu bar and toggle it by pressing Alt. This is only supported on Windows & Linux.

☑ **Automatically Update**
Automatically update Atom when a new release is available.

☑ **Close Empty Windows**


Settings — Atom
File
Edit
View
Selection
Find
Packages
Help
untitled
Telemetry Consent
Welcome
Settings
Core
Editor
System
Keybindings
Packages
Themes
Updates
Install
Open Config Folder
Search packages
Packages
Themes
Install
Install
Settings

然後到Install這裡

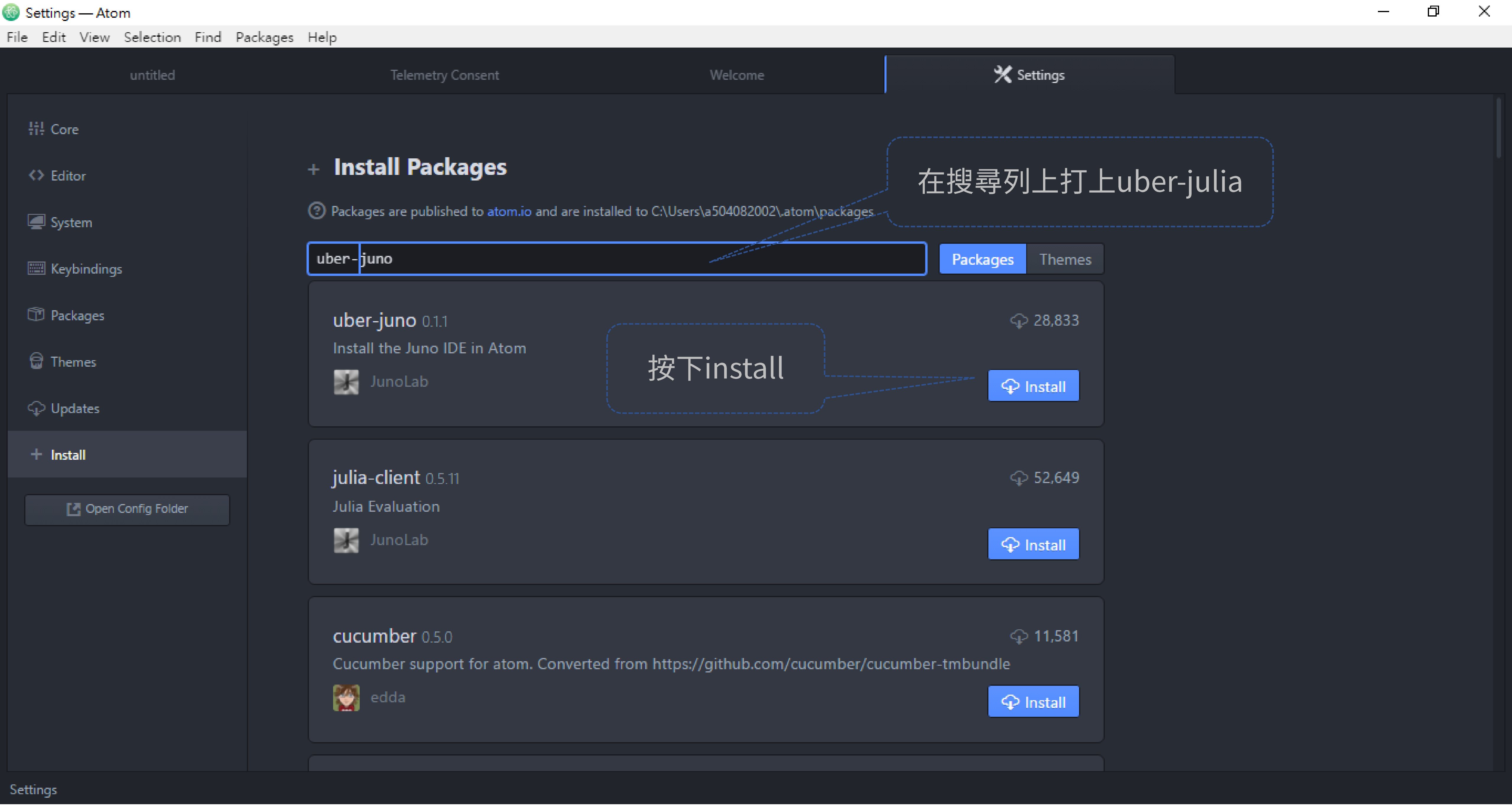
Install Packages

Packages are published to atom.io and are installed to C:\Users\a504082002\.atom\packages

Featured Packages

atom-clock 0.0.8 — 7,522
Display a clock in the status bar.
b3by

linter-write-good 0.8.0 — 7,125
Naive linter for English prose for developers who can't write good and wanna learn to do other stuff good too.
gepoch


Settings — Atom
File
Edit
View
Selection
Find
Packages
Help
untitled
Telemetry Consent
Welcome
Settings
Core
Editor
System
Keybindings
Packages
Themes
Updates
Install
Open Config Folder
Packages
Themes
Install
Install
Install
Settings

在搜尋列上打上uber-julia

按下install

Install Packages

Packages are published to atom.io and are installed to C:\Users\a504082002\.atom\packages

uber-juno

uber-juno 0.1.1 — 28,833

Install the Juno IDE in Atom

JunoLab

julia-client 0.5.11 — 52,649

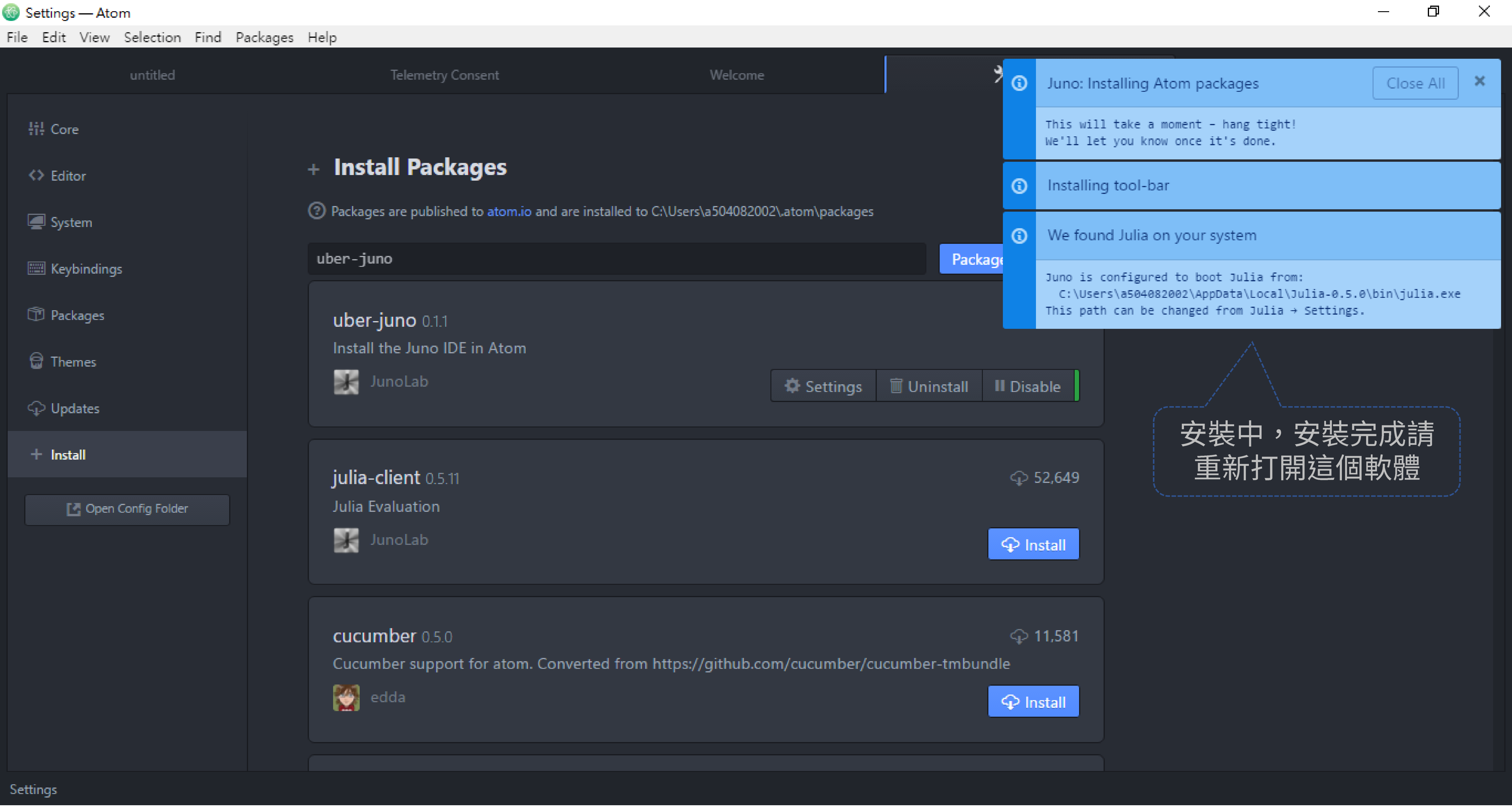
Julia Evaluation

JunoLab

cucumber 0.5.0 — 11,581

Cucumber support for atom. Converted from https://github.com/cucumber/cucumber-tmbundle

edda


Settings — Atom
File
Edit
View
Selection
Find
Packages
Help
untitled
Telemetry Consent
Welcome
Core
Editor
System
Keybindings
Packages
Themes
Updates
Install
Open Config Folder
Close All
Settings
Uninstall
Disable
Install
Install
Settings

Install Packages

Packages are published to atom.io and are installed to C:\Users\a504082002\.atom\packages

uber-juno

uber-juno 0.1.1
Install the Juno IDE in Atom
JunoLab

julia-client 0.5.11 52,649
Julia Evaluation
JunoLab

cucumber 0.5.0 11,581
Cucumber support for atom. Converted from https://github.com/cucumber/cucumber-tmbundle
edda

Juno: Installing Atom packages

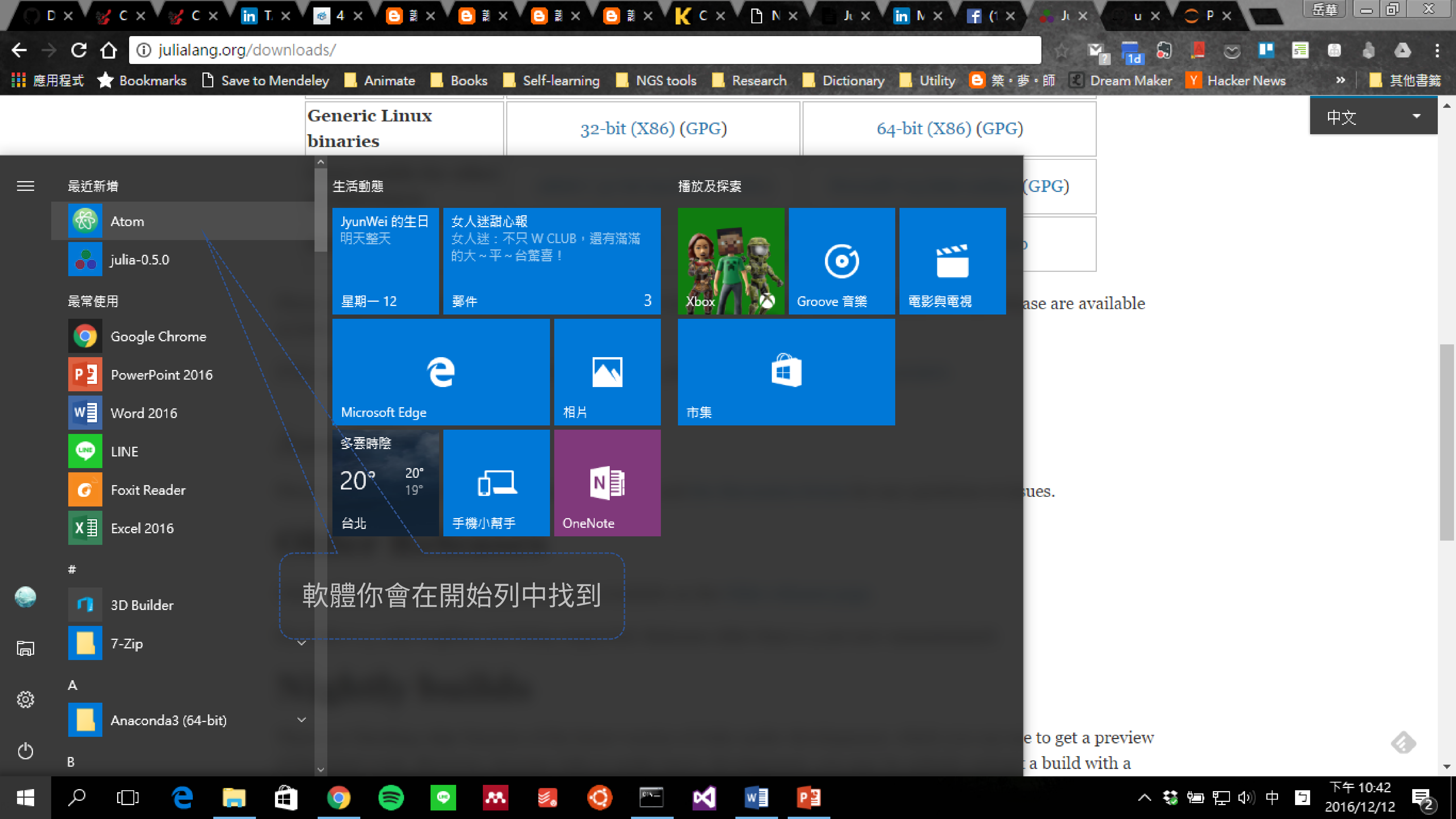
```
This will take a moment - hang tight!
We'll let you know once it's done.
```

Installing tool-bar

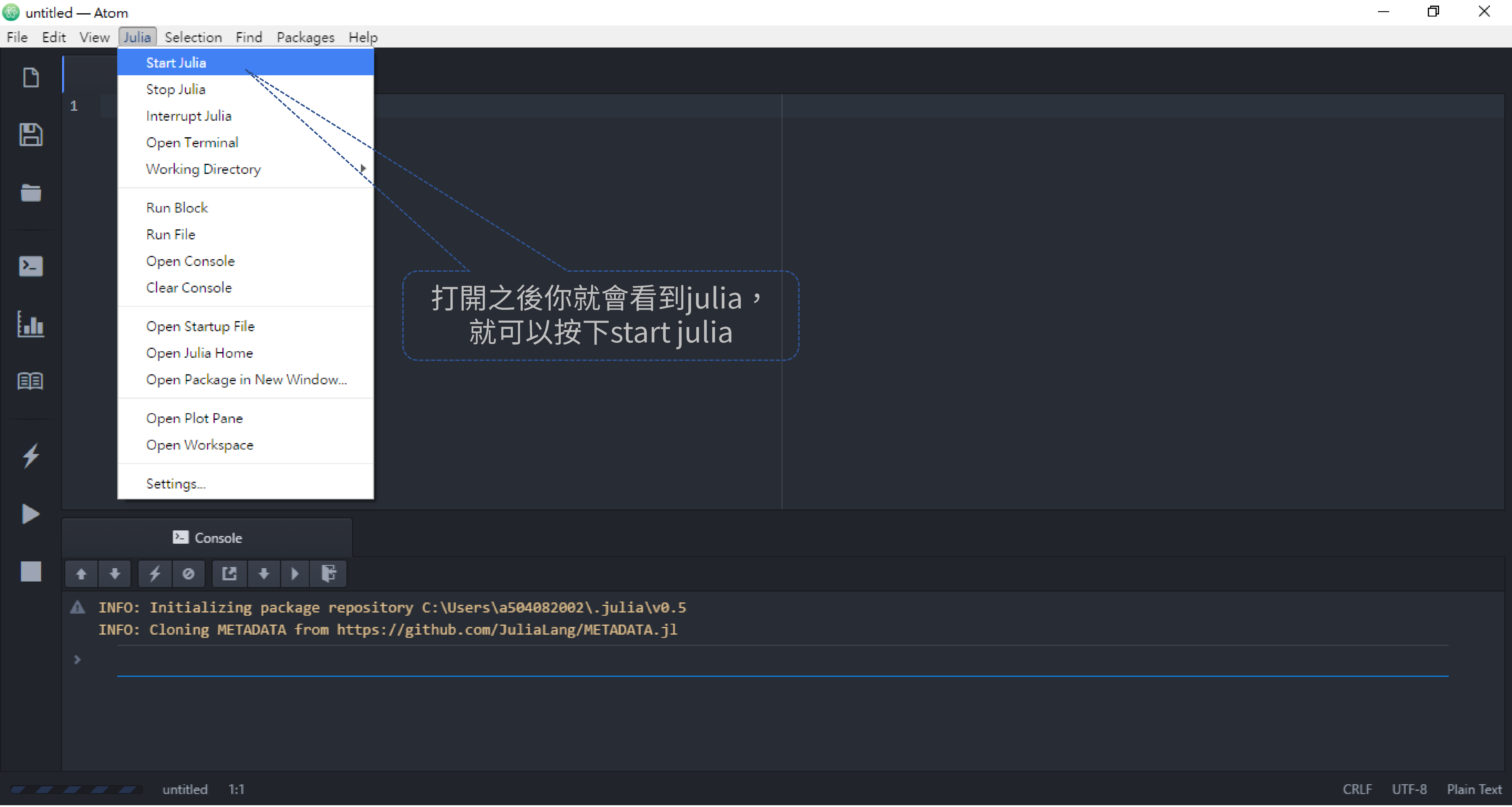
We found Julia on your system

```
Juno is configured to boot Julia from:
  C:\Users\a504082002\AppData\Local\Julia-0.5.0\bin\julia.exe
This path can be changed from Julia → Settings.
```

安裝中，安裝完成請重新打開這個軟體

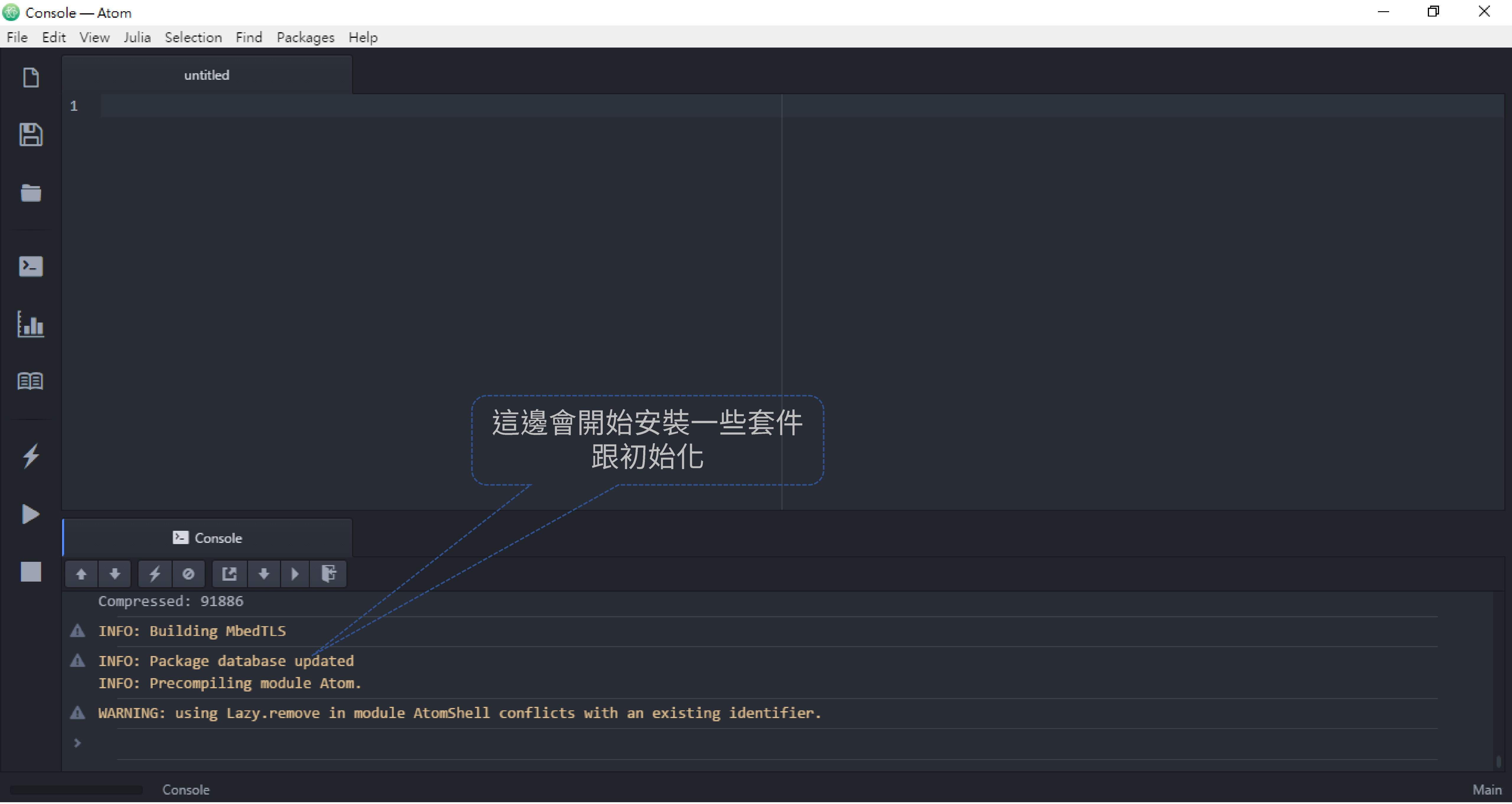

julialang.org/downloads/
Generic Linux binaries
32-bit (X86) (GPG)
64-bit (X86) (GPG)
(GPG)
ase are available
ues.
e to get a preview
a build with a
中文
最近新增
Atom
julia-0.5.0
最常使用
Google Chrome
PowerPoint 2016
Word 2016
LINE
Foxit Reader
Excel 2016
#
3D Builder
7-Zip
A
Anaconda3 (64-bit)
B
生活動態
JyunWei 的生日
明天整天
星期一 12
女人迷甜心報
女人迷：不只 W CLUB，還有滿滿的大～平～台驚喜！
郵件
3
Microsoft Edge
相片
多雲時陰
20°
20°
19°
台北
手機小幫手
OneNote
播放及探索
Xbox
Groove 音樂
電影與電視
市集
下午 10:42
2016/12/12

軟體你會在開始列中找到


untitled — Atom
File
Edit
View
Julia
Selection
Find
Packages
Help
Start Julia
Stop Julia
Interrupt Julia
Open Terminal
Working Directory
Run Block
Run File
Open Console
Clear Console
Open Startup File
Open Julia Home
Open Package in New Window...
Open Plot Pane
Open Workspace
Settings...
1
Console
untitled
1:1
CRLF
UTF-8
Plain Text

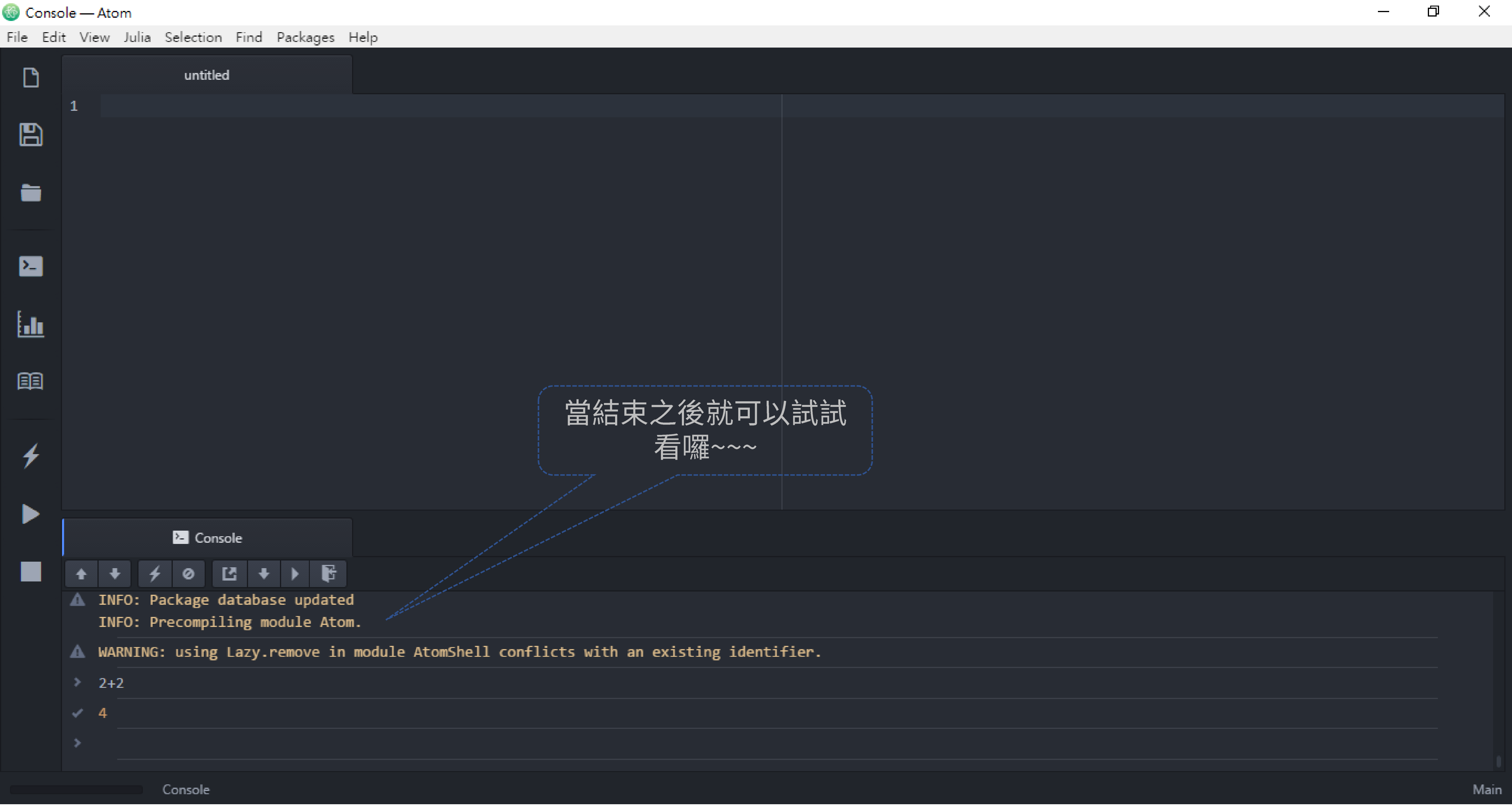
打開之後你就會看到julia，
就可以按下start julia

```
INFO: Initializing package repository C:\Users\a504082002\.julia\v0.5
INFO: Cloning METADATA from https://github.com/JuliaLang/METADATA.jl
```


Console — Atom
File
Edit
View
Julia
Selection
Find
Packages
Help
untitled
Console
Console
Main

這邊會開始安裝一些套件跟初始化

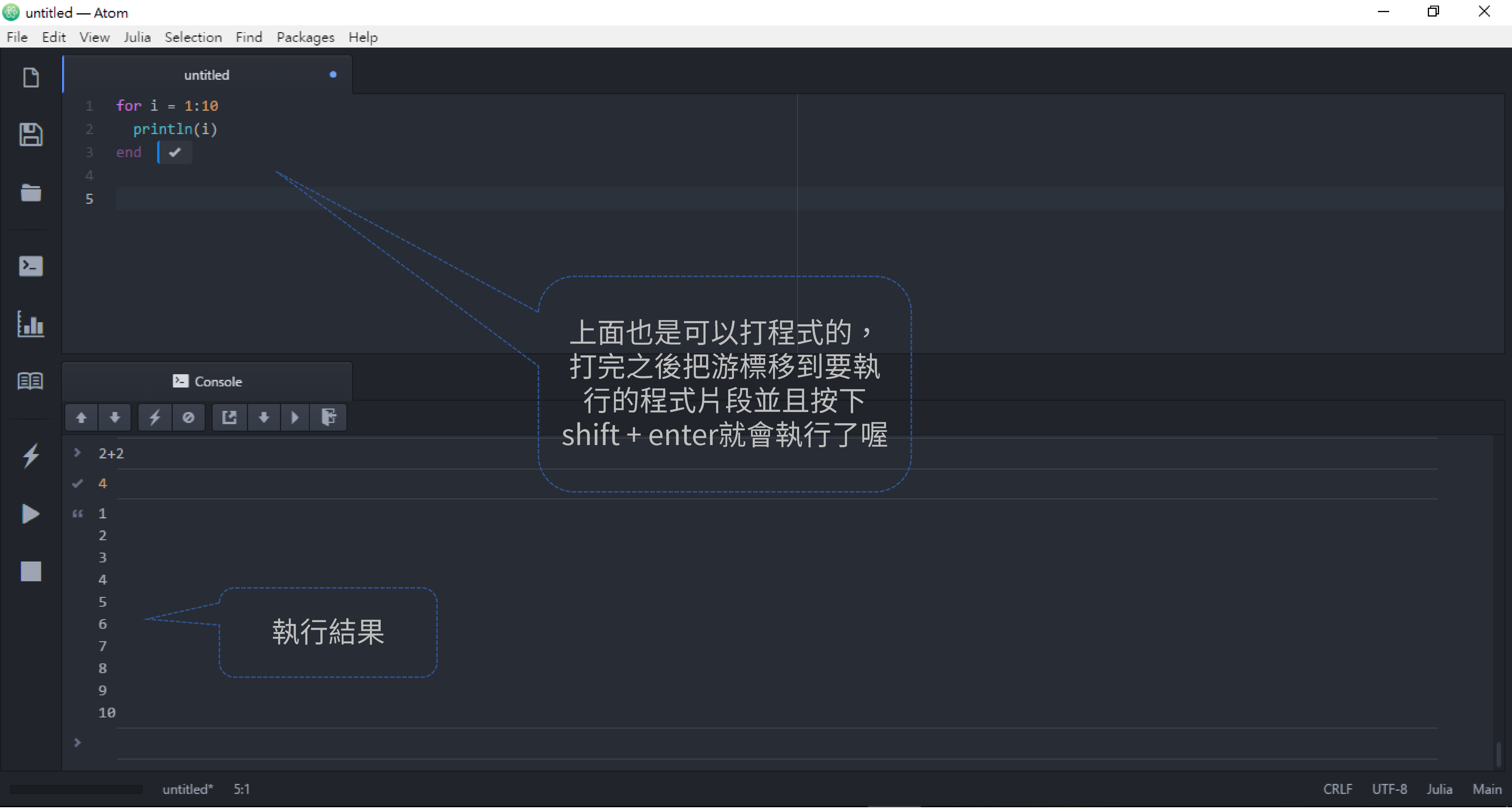
```
Compressed: 91886
INFO: Building MbedTLS
INFO: Package database updated
INFO: Precompiling module Atom.
WARNING: using Lazy.remove in module AtomShell conflicts with an existing identifier.
```



Console — Atom
File Edit View Julia Selection Find Packages Help
untitled
Console
Main

```
INFO: Package database updated
INFO: Precompiling module Atom.
WARNING: using Lazy.remove in module AtomShell conflicts with an existing identifier.
> 2+2
✓ 4
>
```

當結束之後就可以試試看囉~~~


untitled — Atom
File
Edit
View
Julia
Selection
Find
Packages
Help
untitled
Console
untitled*
5:1
CRLF
UTF-8
Julia
Main

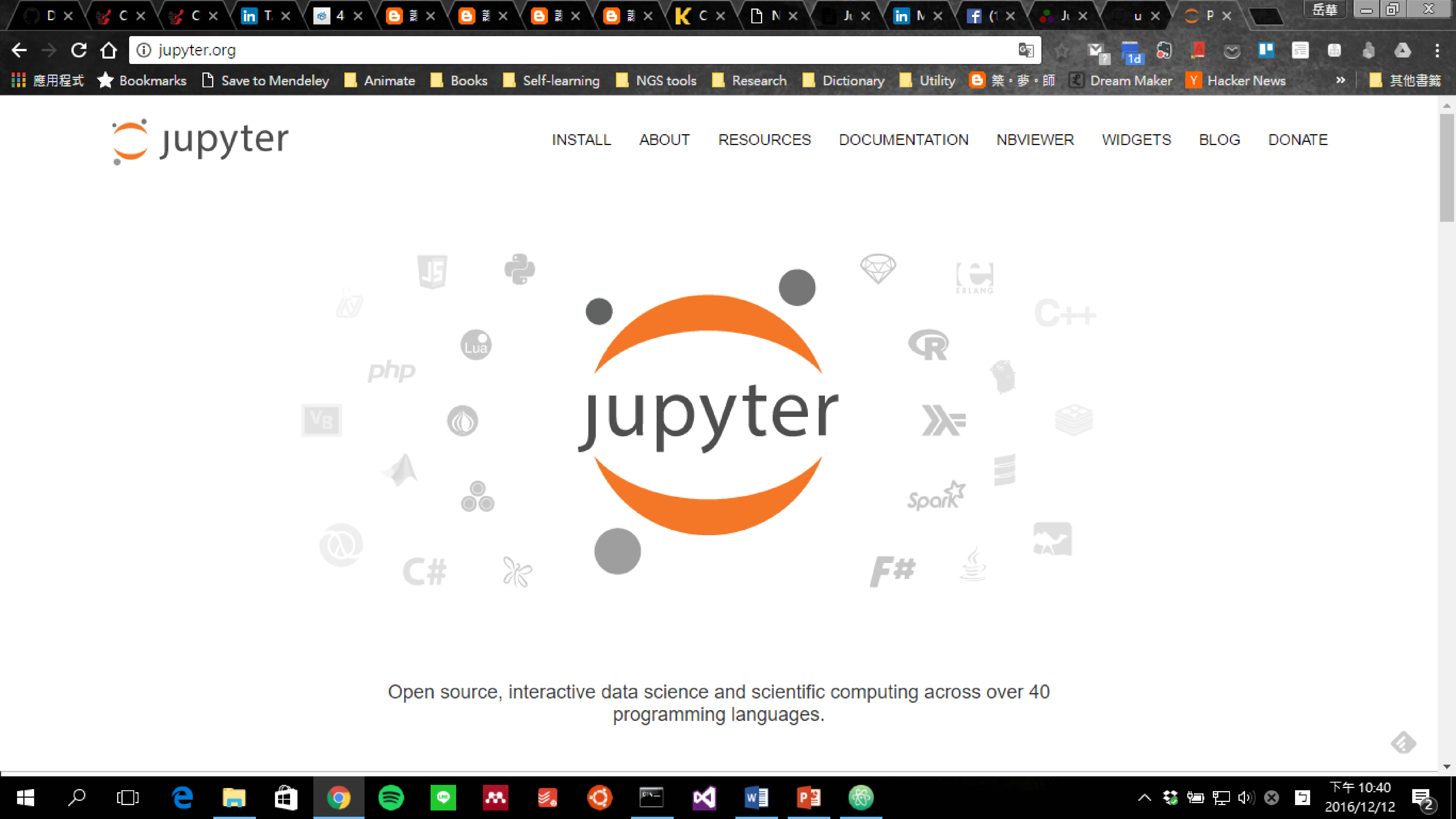
```julia
for i = 1:10
  println(i)
end
```

```
> 2+2
✓ 4
" 1
  2
  3
  4
  5
  6
  7
  8
  9
  10
>
```

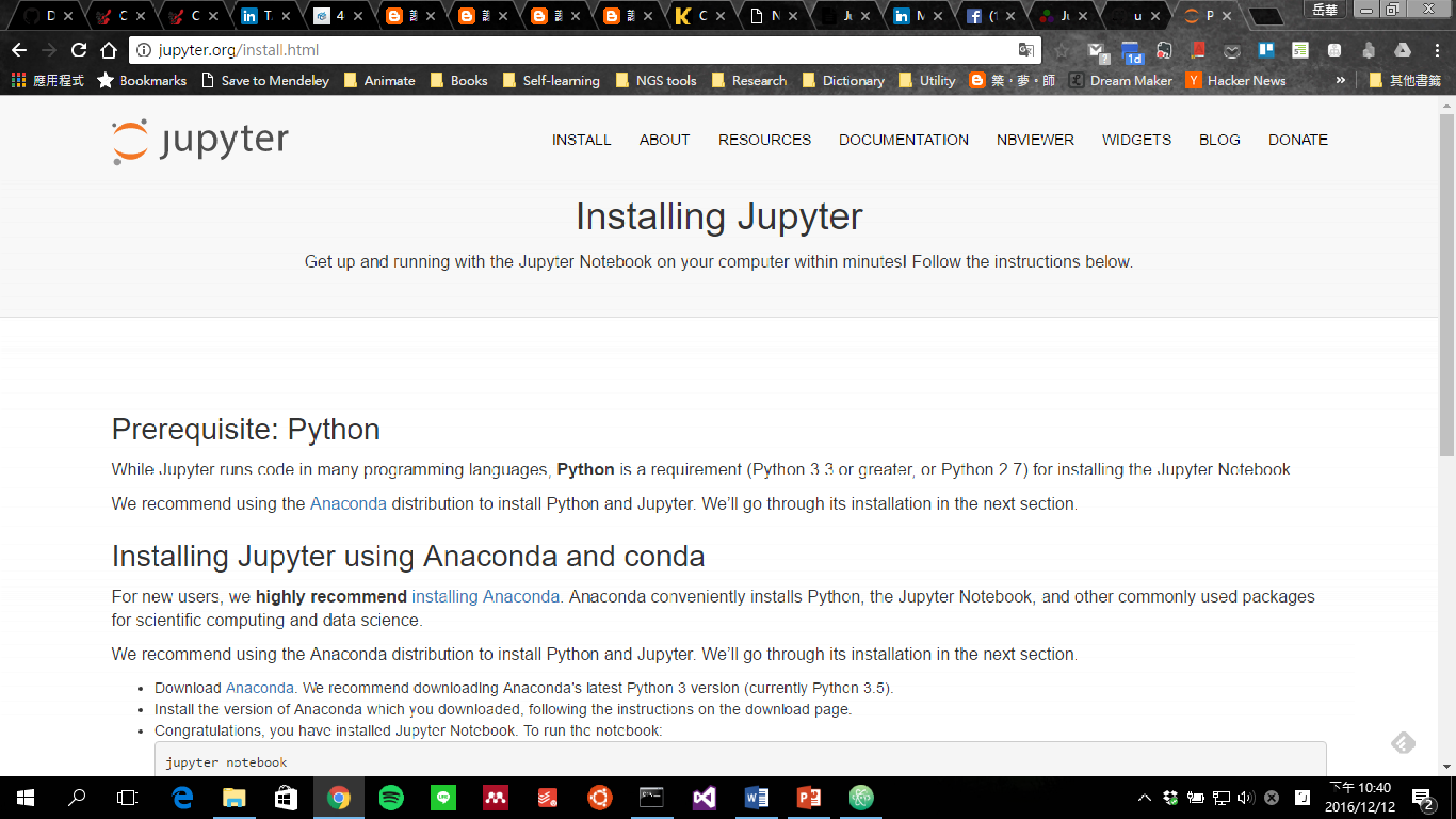
上面也是可以打程式的，打完之後把游標移到要執行的程式片段並且按下shift + enter就會執行了喔

執行結果

安裝Jupyter


jupyter.org
應用程式
Bookmarks
Save to Mendeley
Animate
Books
Self-learning
NGS tools
Research
Dictionary
Utility
禁・夢・師
Dream Maker
Hacker News
其他書籤
岳華
jupyter
INSTALL
ABOUT
RESOURCES
DOCUMENTATION
NBVIEWER
WIDGETS
BLOG
DONATE
JS
Lua
php
VB
C#
ERLANG
C++
R
Spark
F#
jupyter
下午 10:40
2016/12/12

Open source, interactive data science and scientific computing across over 40 programming languages.


jupyter.org/install.html
應用程式
Bookmarks
Save to Mendeley
Animate
Books
Self-learning
NGS tools
Research
Dictionary
Utility
築・夢・師
Dream Maker
Hacker News
其他書籤
岳華
jupyter
INSTALL
ABOUT
RESOURCES
DOCUMENTATION
NBVIEWER
WIDGETS
BLOG
DONATE
下午 10:40
2016/12/12

Installing Jupyter

Get up and running with the Jupyter Notebook on your computer within minutes! Follow the instructions below.

Prerequisite: Python

While Jupyter runs code in many programming languages, **Python** is a requirement (Python 3.3 or greater, or Python 2.7) for installing the Jupyter Notebook.

We recommend using the Anaconda distribution to install Python and Jupyter. We'll go through its installation in the next section.

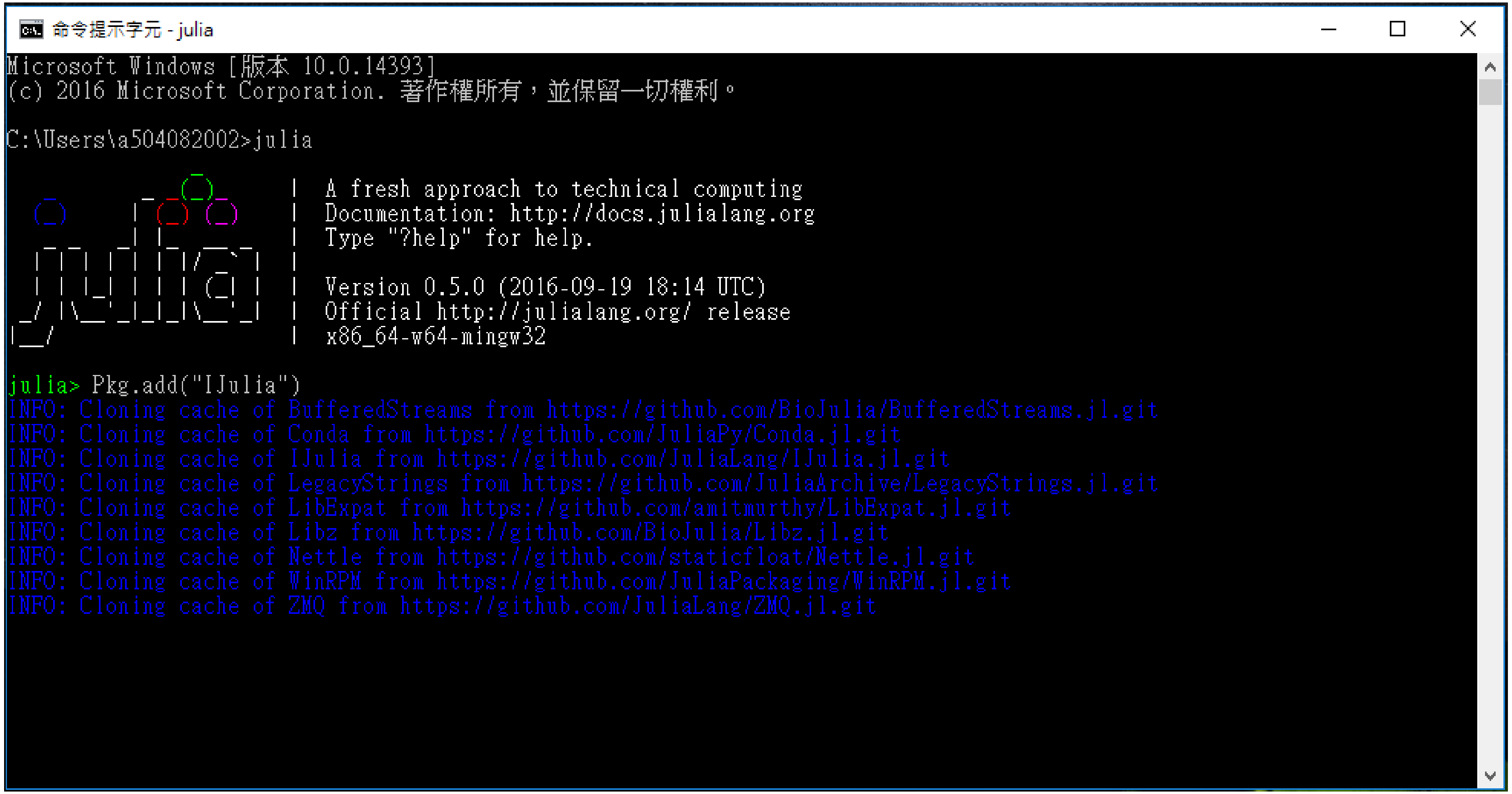
Installing Jupyter using Anaconda and conda

For new users, we **highly recommend** installing Anaconda. Anaconda conveniently installs Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science.

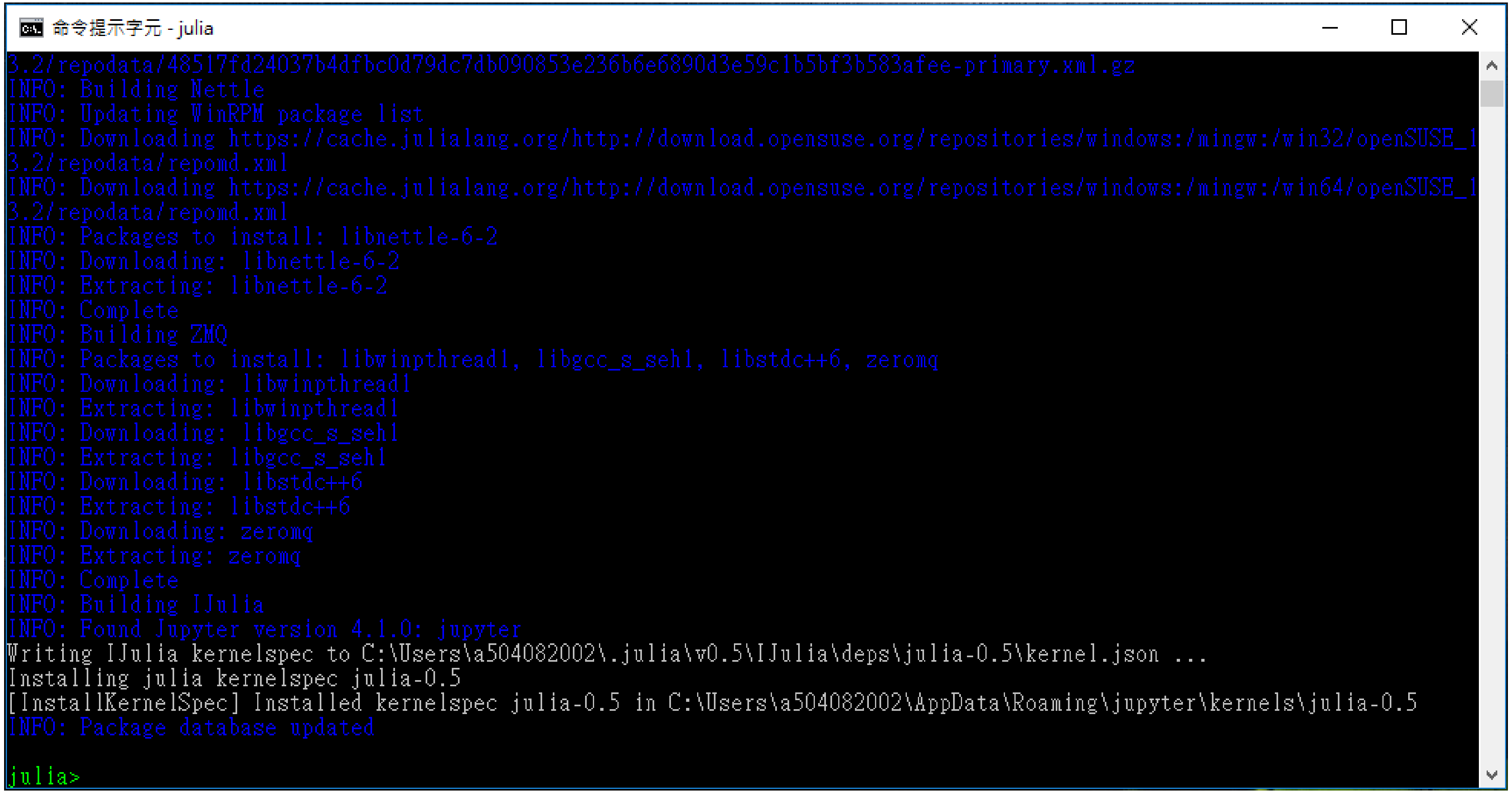
We recommend using the Anaconda distribution to install Python and Jupyter. We'll go through its installation in the next section.

- Download Anaconda. We recommend downloading Anaconda's latest Python 3 version (currently Python 3.5).
- Install the version of Anaconda which you downloaded, following the instructions on the download page.
- Congratulations, you have installed Jupyter Notebook. To run the notebook:

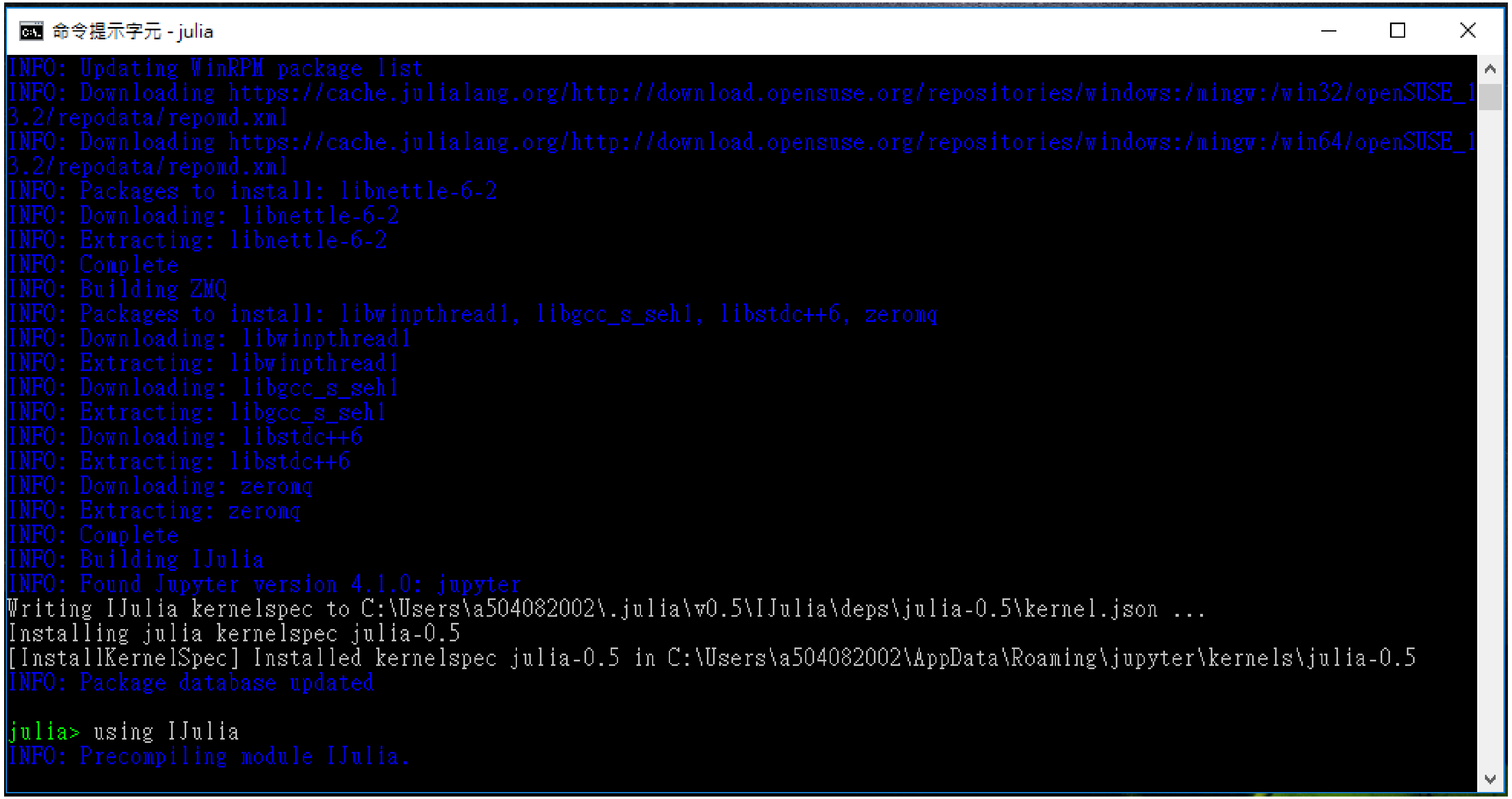
```
jupyter notebook
```



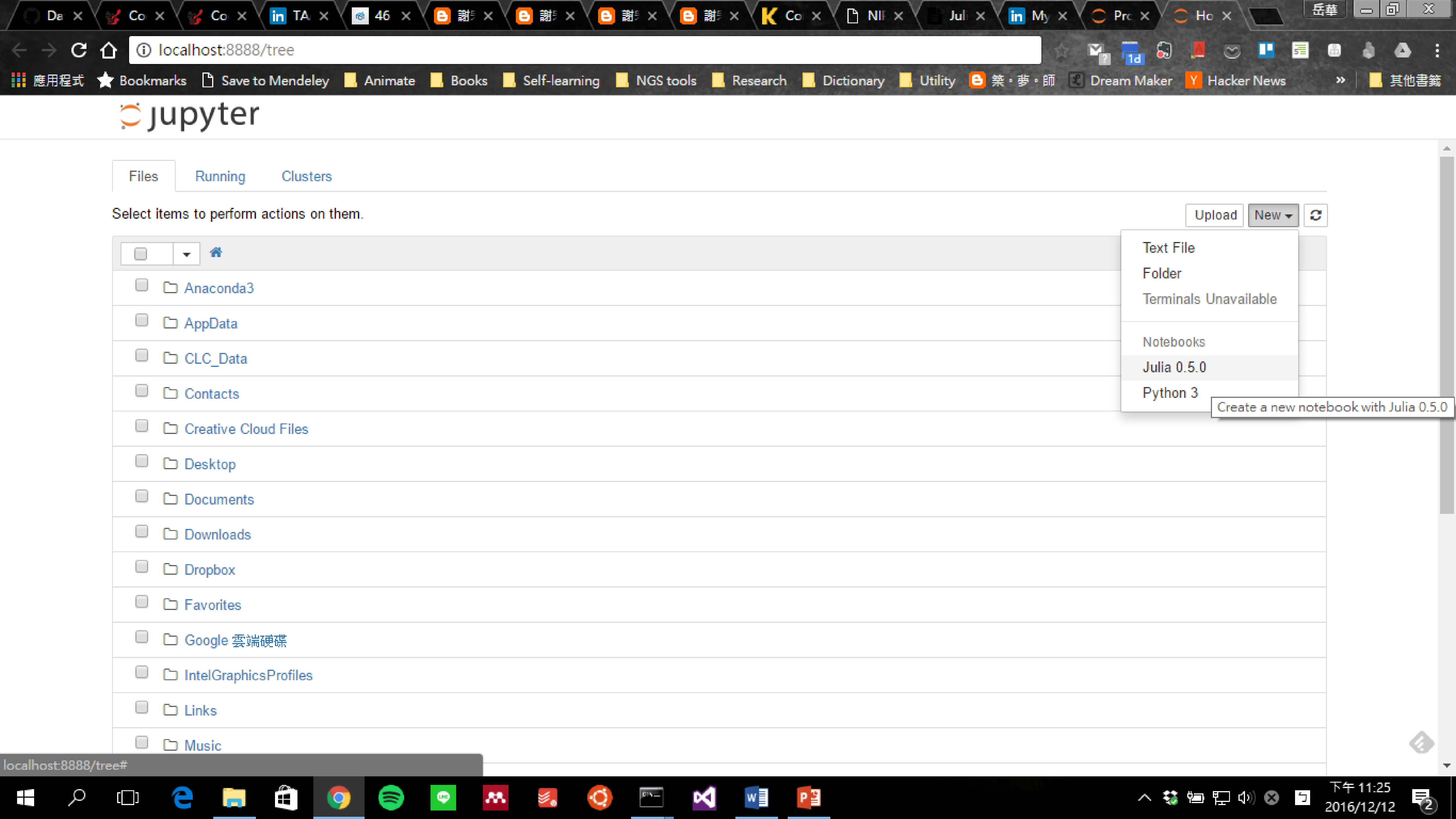
```
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\a504082002>julia
               _
   _       _ _(_)_     |  A fresh approach to technical computing
  (_)     | (_) (_)    |  Documentation: http://docs.julialang.org
   _ _   _| |_  __ _   |  Type "?help" for help.
  | | | | | | |/ _` |  |
  | | |_| | | | (_| |  |  Version 0.5.0 (2016-09-19 18:14 UTC)
 _/ |\__'_|_|_|\__'_|  |  Official http://julialang.org/ release
|__/                   |  x86_64-w64-mingw32

julia> Pkg.add("IJulia")
INFO: Cloning cache of BufferedStreams from https://github.com/BioJulia/BufferedStreams.jl.git
INFO: Cloning cache of Conda from https://github.com/JuliaPy/Conda.jl.git
INFO: Cloning cache of IJulia from https://github.com/JuliaLang/IJulia.jl.git
INFO: Cloning cache of LegacyStrings from https://github.com/JuliaArchive/LegacyStrings.jl.git
INFO: Cloning cache of LibExpat from https://github.com/amitmurthy/LibExpat.jl.git
INFO: Cloning cache of Libz from https://github.com/BioJulia/Libz.jl.git
INFO: Cloning cache of Nettle from https://github.com/staticfloat/Nettle.jl.git
INFO: Cloning cache of WinRPM from https://github.com/JuliaPackaging/WinRPM.jl.git
INFO: Cloning cache of ZMQ from https://github.com/JuliaLang/ZMQ.jl.git
```



```
3.2/repodata/48517fd24037b4dfbc0d79dc7db090853e236b6e6890d3e59c1b5bf3b583afee-primary.xml.gz
INFO: Building Nettle
INFO: Updating WinRPM package list
INFO: Downloading https://cache.julialang.org/http://download.opensuse.org/repositories/windows:/mingw:/win32/openSUSE_1
3.2/repodata/repomd.xml
INFO: Downloading https://cache.julialang.org/http://download.opensuse.org/repositories/windows:/mingw:/win64/openSUSE_1
3.2/repodata/repomd.xml
INFO: Packages to install: libnettle-6-2
INFO: Downloading: libnettle-6-2
INFO: Extracting: libnettle-6-2
INFO: Complete
INFO: Building ZMQ
INFO: Packages to install: libwinpthread1, libgcc_s_seh1, libstdc++6, zeromq
INFO: Downloading: libwinpthread1
INFO: Extracting: libwinpthread1
INFO: Downloading: libgcc_s_seh1
INFO: Extracting: libgcc_s_seh1
INFO: Downloading: libstdc++6
INFO: Extracting: libstdc++6
INFO: Downloading: zeromq
INFO: Extracting: zeromq
INFO: Complete
INFO: Building IJulia
INFO: Found Jupyter version 4.1.0: jupyter
Writing IJulia kernelspec to C:\Users\a504082002\.julia\v0.5\IJulia\deps\julia-0.5\kernel.json ...
Installing julia kernelspec julia-0.5
[InstallKernelSpec] Installed kernelspec julia-0.5 in C:\Users\a504082002\AppData\Roaming\jupyter\kernels\julia-0.5
INFO: Package database updated

julia>
```

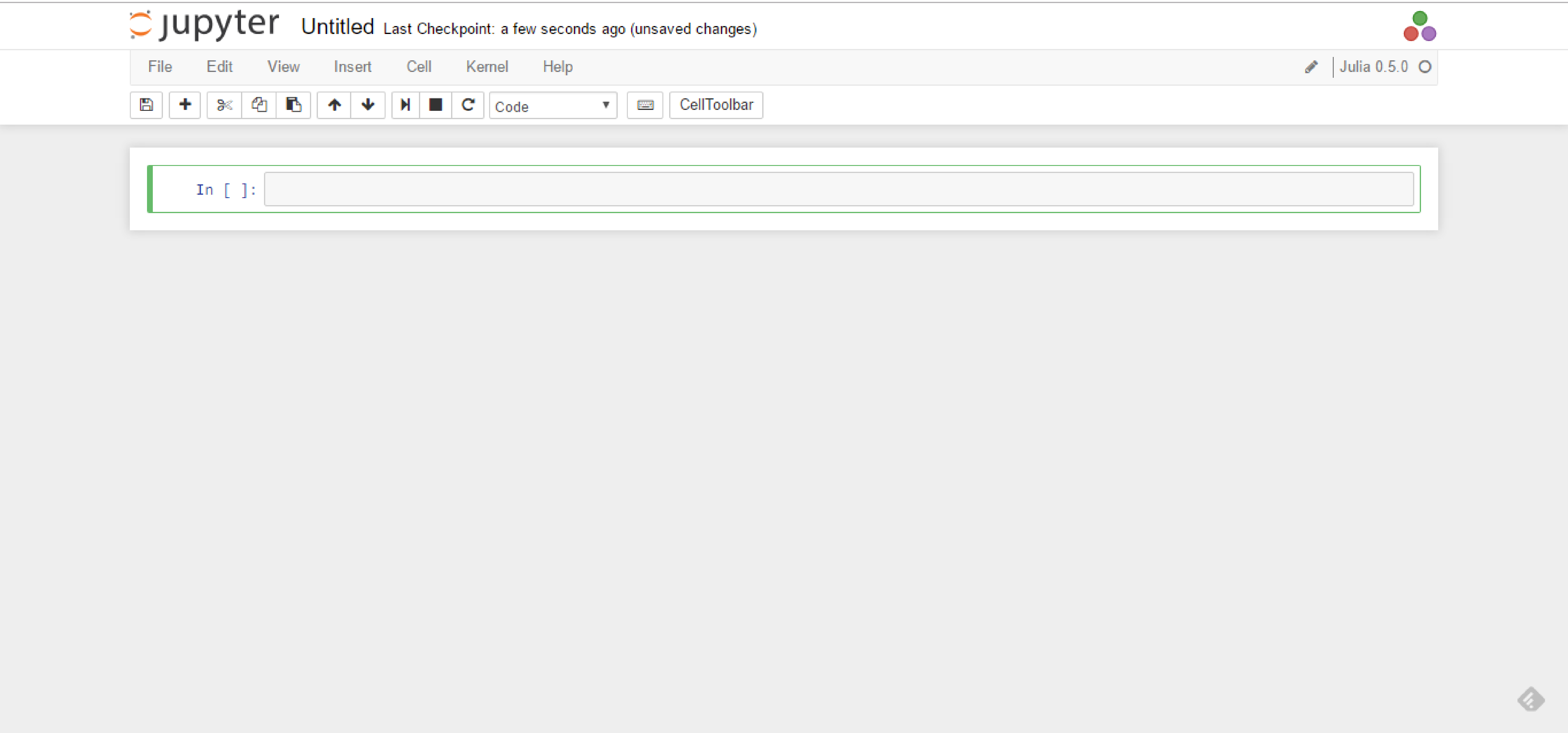


```
INFO: Updating WinRPM package list
INFO: Downloading https://cache.julialang.org/http://download.opensuse.org/repositories/windows:/mingw:/win32/openSUSE_1
3.2/repodata/repomd.xml
INFO: Downloading https://cache.julialang.org/http://download.opensuse.org/repositories/windows:/mingw:/win64/openSUSE_1
3.2/repodata/repomd.xml
INFO: Packages to install: libnettle-6-2
INFO: Downloading: libnettle-6-2
INFO: Extracting: libnettle-6-2
INFO: Complete
INFO: Building ZMQ
INFO: Packages to install: libwinpthread1, libgcc_s_seh1, libstdc++6, zeromq
INFO: Downloading: libwinpthread1
INFO: Extracting: libwinpthread1
INFO: Downloading: libgcc_s_seh1
INFO: Extracting: libgcc_s_seh1
INFO: Downloading: libstdc++6
INFO: Extracting: libstdc++6
INFO: Downloading: zeromq
INFO: Extracting: zeromq
INFO: Complete
INFO: Building IJulia
INFO: Found Jupyter version 4.1.0: jupyter
Writing IJulia kernelspec to C:\Users\a504082002\.julia\v0.5\IJulia\deps\julia-0.5\kernel.json ...
Installing julia kernelspec julia-0.5
[InstallKernelSpec] Installed kernelspec julia-0.5 in C:\Users\a504082002\AppData\Roaming\jupyter\kernels\julia-0.5
INFO: Package database updated

julia> using IJulia
INFO: Precompiling module IJulia.
```

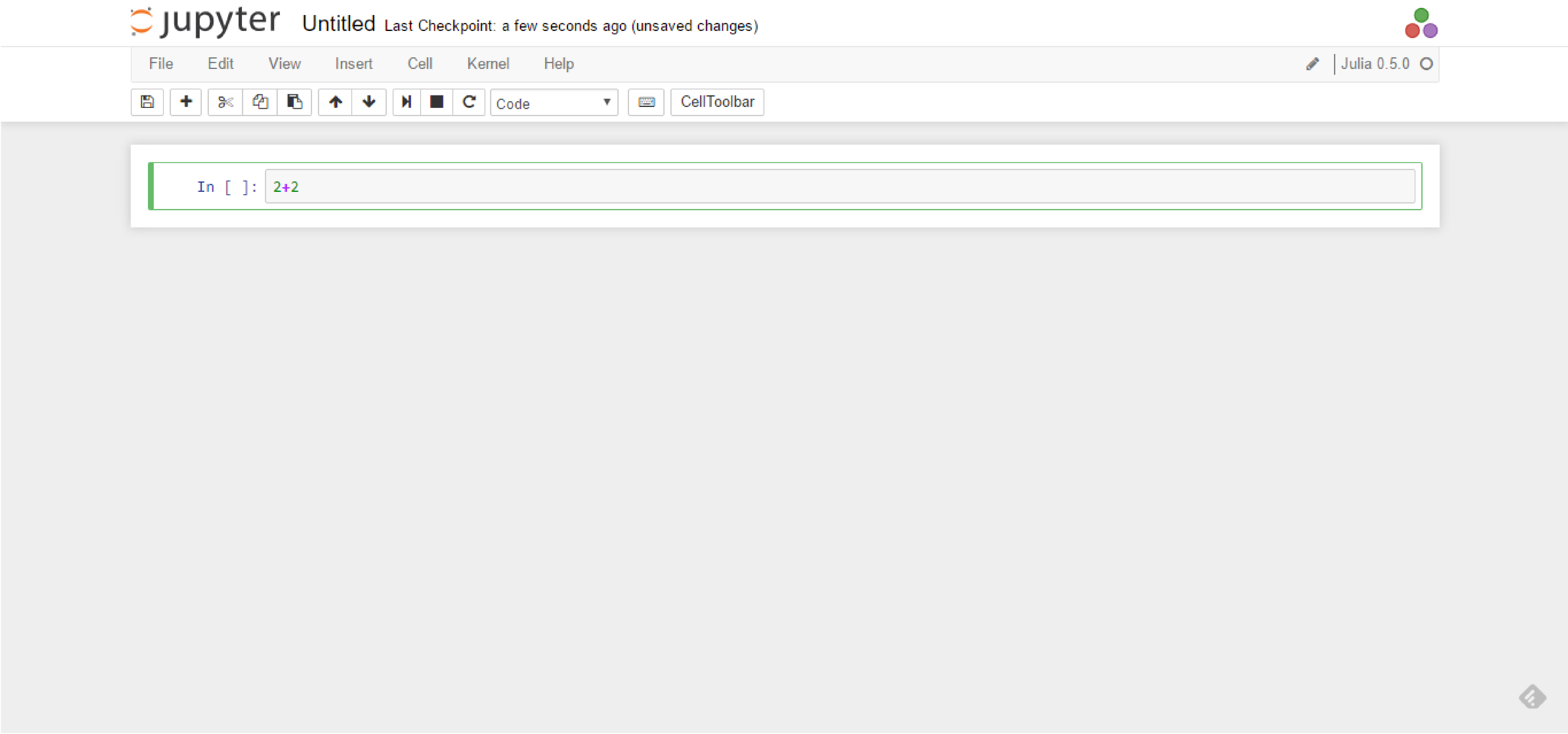

localhost:8888/tree
應用程式
Bookmarks
Save to Mendeley
Animate
Books
Self-learning
NGS tools
Research
Dictionary
Utility
禁・夢・師
Dream Maker
Hacker News
其他書籤
jupyter
Files
Running
Clusters
Upload
New
Text File
Folder
Terminals Unavailable
Notebooks
Julia 0.5.0
Python 3
Create a new notebook with Julia 0.5.0
localhost:8888/tree#
下午 11:25
2016/12/12

Select items to perform actions on them.

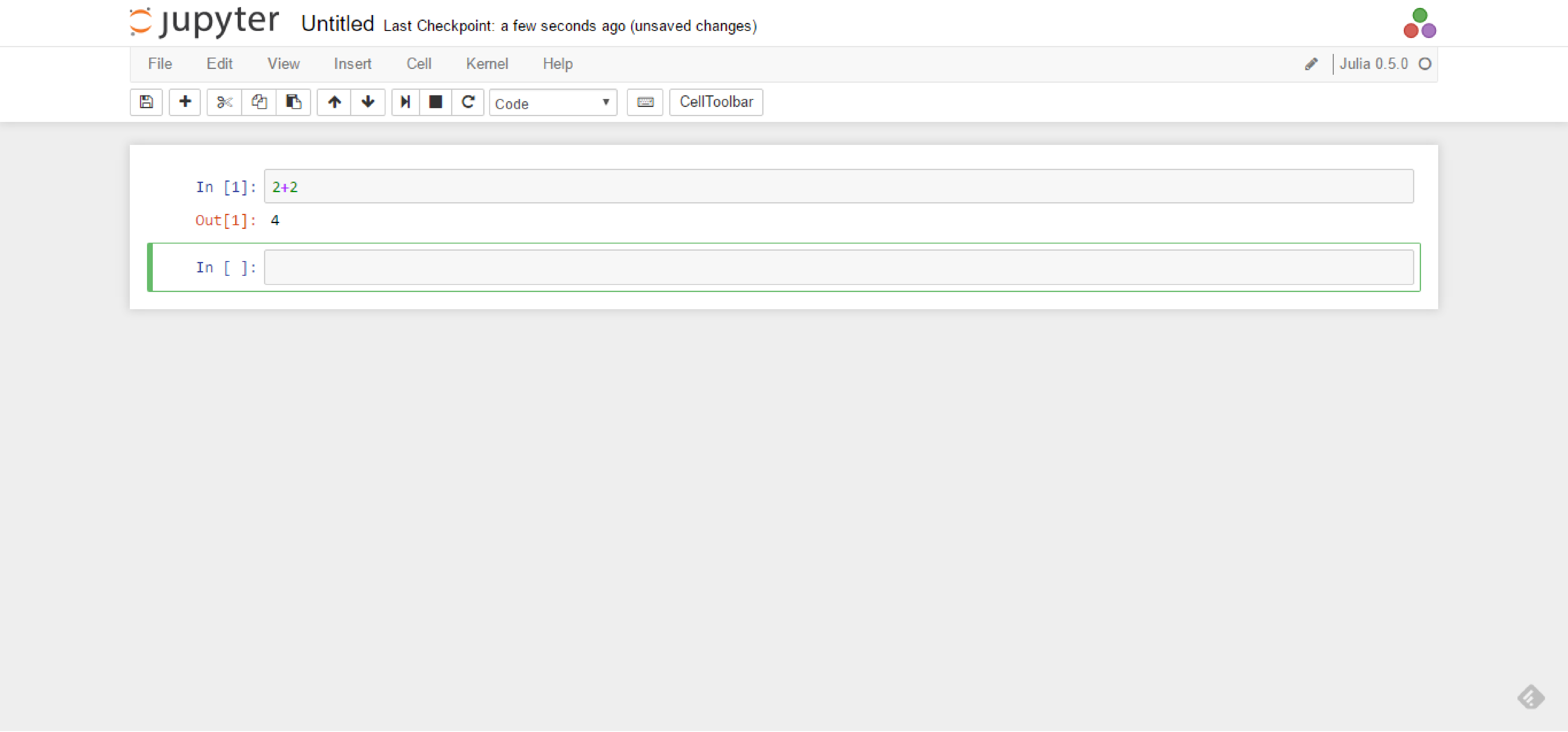
- Anaconda3
- AppData
- CLC_Data
- Contacts
- Creative Cloud Files
- Desktop
- Documents
- Downloads
- Dropbox
- Favorites
- Google 雲端硬碟
- IntelGraphicsProfiles
- Links
- Music



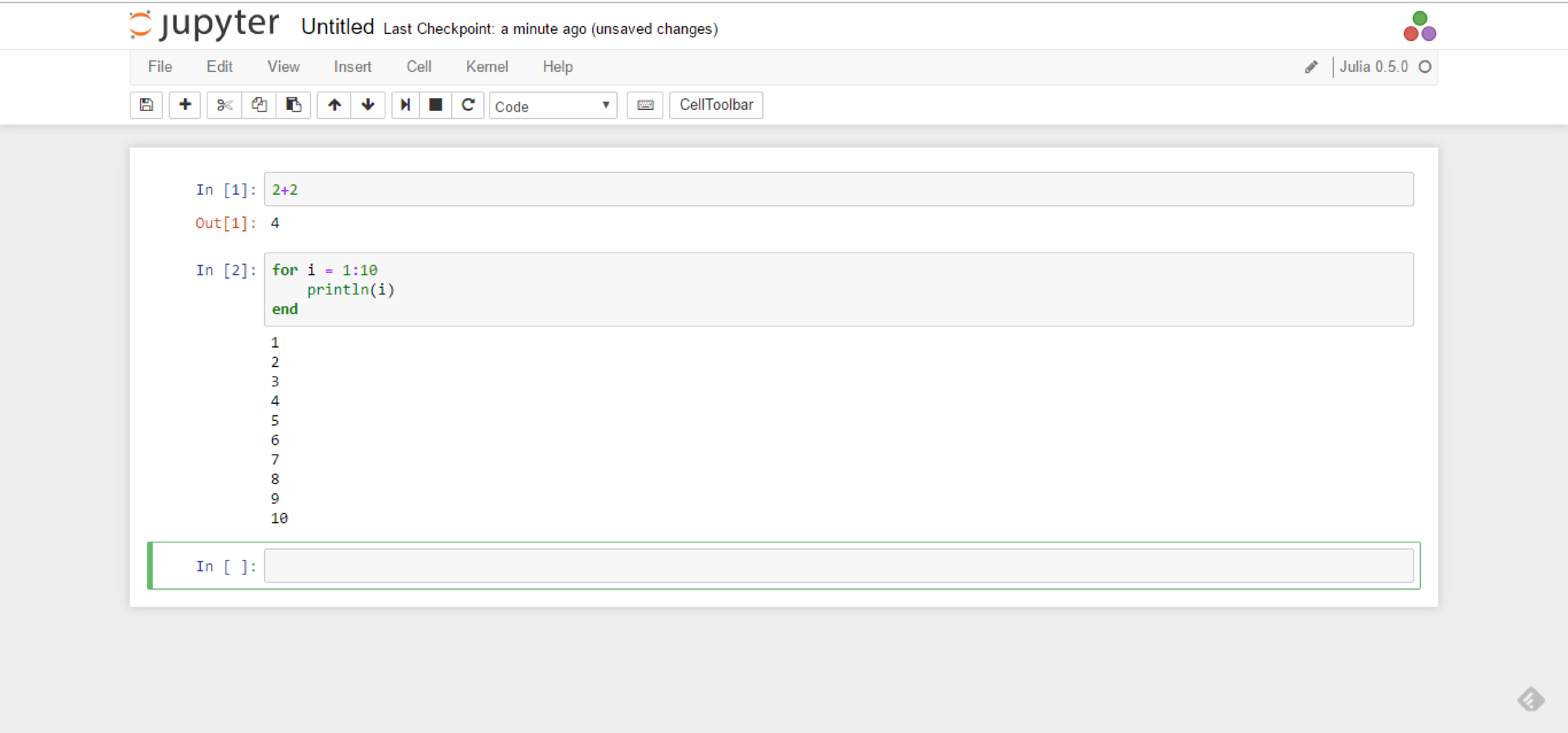
jupyter
Untitled Last Checkpoint: a few seconds ago (unsaved changes)
File
Edit
View
Insert
Cell
Kernel
Help
Julia 0.5.0
Code
CellToolbar
In [ ]:


jupyter
Untitled
Last Checkpoint: a few seconds ago (unsaved changes)
File
Edit
View
Insert
Cell
Kernel
Help
Julia 0.5.0
Code
CellToolbar

```
In [ ]: 2+2
```


jupyter
Untitled
Last Checkpoint: a few seconds ago (unsaved changes)
File
Edit
View
Insert
Cell
Kernel
Help
Julia 0.5.0
Code
CellToolbar

```
In [1]: 2+2
Out[1]: 4
In [ ]:
```



jupyter
Untitled
Last Checkpoint: a minute ago (unsaved changes)
File
Edit
View
Insert
Cell
Kernel
Help
Julia 0.5.0
Code
CellToolbar

```
In [1]: 2+2

Out[1]: 4

In [2]: for i = 1:10
            println(i)
        end

        1
        2
        3
        4
        5
        6
        7
        8
        9
        10

In [ ]:
```