

Pre-Workshop Instructions for Windows



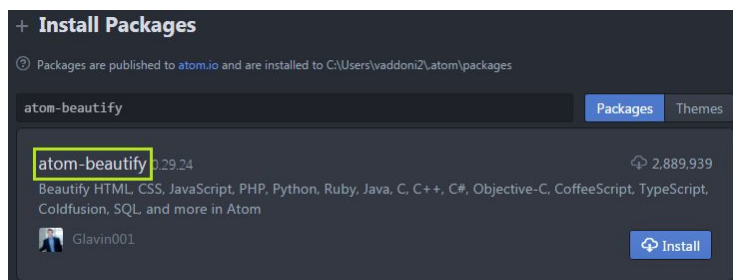
- Please follow these instructions well in advance; there will be no time allotted for these downloads during the workshop.
- Allow a total of 20 minutes or more for these installations.
- You will be downloading three programs, and further configuring two of those three.
- Accept all defaults during the installs unless stated otherwise.
- Place application shortcuts where you will know to find them.

Downloads

Download and install the following programs on the laptop you will be using for the workshop:

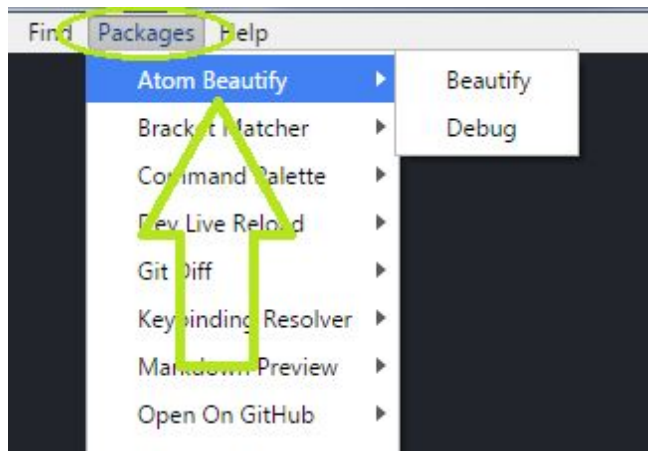
Atom – a text editor that we will use for viewing scripts¹

- Download here: <https://atom.io/>
- The download page will automatically detect which version you should download.
- A Windows 10 user has reported that Atom did not create a shortcut automatically after being installed, so in order to launch the program you may need to navigate to your equivalent of C:\Users\user\AppData\Local\atom. The AppData folder is hidden by default. Please let us know if launching Atom after you’ve installed it is an issue for you.
- Atom *should* open automatically for Windows users. Open Atom if it’s not already open, and then close all the open tabs to neaten up the workspace.
- Install the *beautify* package: File > Settings > Install (on left) > Install Packages > search for “atom-beautify” and install:



- Check that it installed under Packages in the menu bar:

¹ Note: If you already have a different preferred text editor installed that you are comfortable using for the workshop, feel free to skip installing Atom; however, we will NOT assist you in translating our instructions/screenshots to your preferred editor, so for the most seamless experience, please get Atom.



- Close the program.
- Place a convenient shortcut if one is not created automatically, and you're done!

Postman – a GUI interface for interacting with APIs

- Download here: <https://www.getpostman.com/>
- If you are uncertain which system type you are running (32- or 64-bit), instructions for determining that are available here: <https://support.microsoft.com/en-us/help/13443/windows-which-operating-system>
- Keep all defaults and install.
- **Please note** that you may be prompted to create an account, but you do not need one. You should see an option to proceed without an account:

Take me straight to the app. I'll create an account another time.

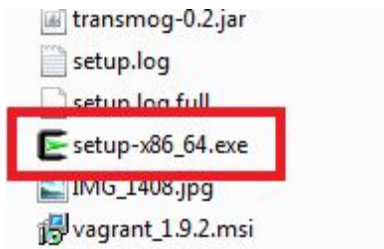


- Place a convenient shortcut if one is not created automatically, and you're done!

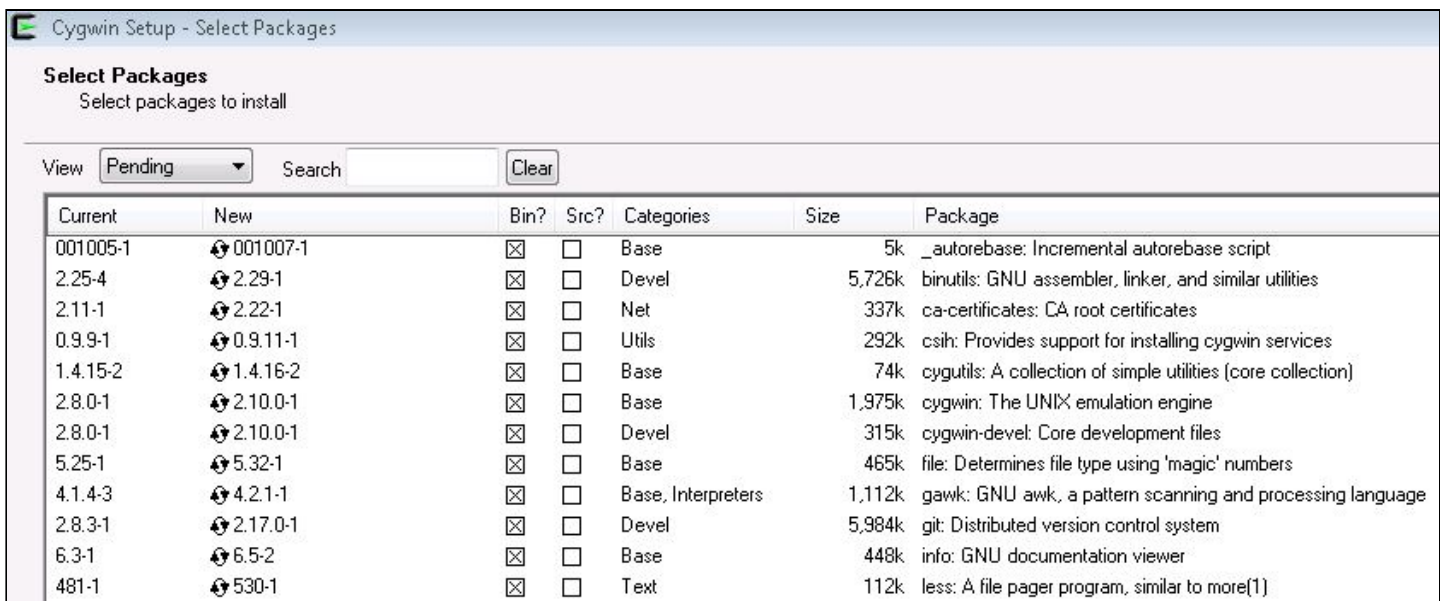
Cygwin – A Unix-like environment and command-line interface for Microsoft Windows. **Note that this is only for Windows users.**

- Download here: <https://cygwin.com/install.html>
- If you are uncertain which system type you are running (32- or 64-bit), instructions for determining that are available here: <https://support.microsoft.com/en-us/help/13443/windows-which-operating-system>
- Once downloaded, please follow these specific instructions for configuring packages (keep scrolling):

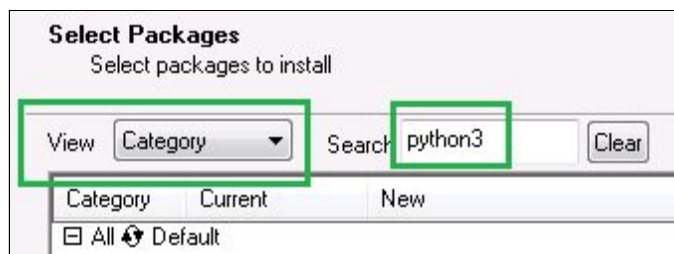
Step 1: Double-click to begin installing Cygwin (the 64-bit version is pictured here):



Step 2: Follow installation prompts (keep all defaults and any mirror site will suffice) until you see this screen:



Step 3: Look for View at the top of the screen and select **Category**, then type **python3** in the search box, but do not hit enter, the search will filter automatically:



Step 4: Refer to the following screenshot as you read the instructions below. This screenshot shows what an un-skipped line looks like (note: the kilobyte count will differ as this screenshot ages). You must un-skip the five packages listed below the screenshot. Each package will remain un-skipped when you navigate away to search for more packages.

View

Category

Search

python3

Clear

Category	Current	New	Bin?	Src?	Size	Package
Interpreters	Default					
Libs	Default					
Math	Default					
Net	Default					
Python	Default					
	3.6.4-1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	7,138k	python3: Py3K language interpreter
	Skip		n/a	n/a	12k	python3-alabaster: Sphinx sidebar-enabled theme
	Skip		n/a	n/a	13k	python3-appdirs: Python application directories module
	Skip		n/a	n/a	152k	python3-asn1crypto: Python ASN.1 library
	Skip		n/a	n/a	26k	python3-attrs: Python attributes without boilerplate
	Skip		n/a	n/a	5k	python3-avahi: mDNS/DNS_SD/Zeroconf implementation (Python bindings)
	Skip		n/a	n/a	3,910k	python3-babel: Python internationalization utilities
	Skip		n/a	n/a	118k	python3-boost.mpi: Boost C++ libraries

After you have searched for python3, expand the **Python** heading, then locate and unskip the following (the list is strictly alphabetical):

python3: Py3K language interpreter

python3-requests: Python HTTP/1.1 request module

Python3-setuptools: Python package management tool

Now search for **git** (but don't hit enter), expand the **Devel** heading, and unskip:

git: Distributed version control system

Finally, search for **openssh** (don't hit enter), expand the **Net** heading, and unskip:

openssh: The OpenSSH server and client programs

Step 5: Once all five packages have been un-skipped, proceed with the install (click Next) until you complete the installation. Once installed, double-click the icon to be sure the program launches (it will look like a command prompt), then you're done!

