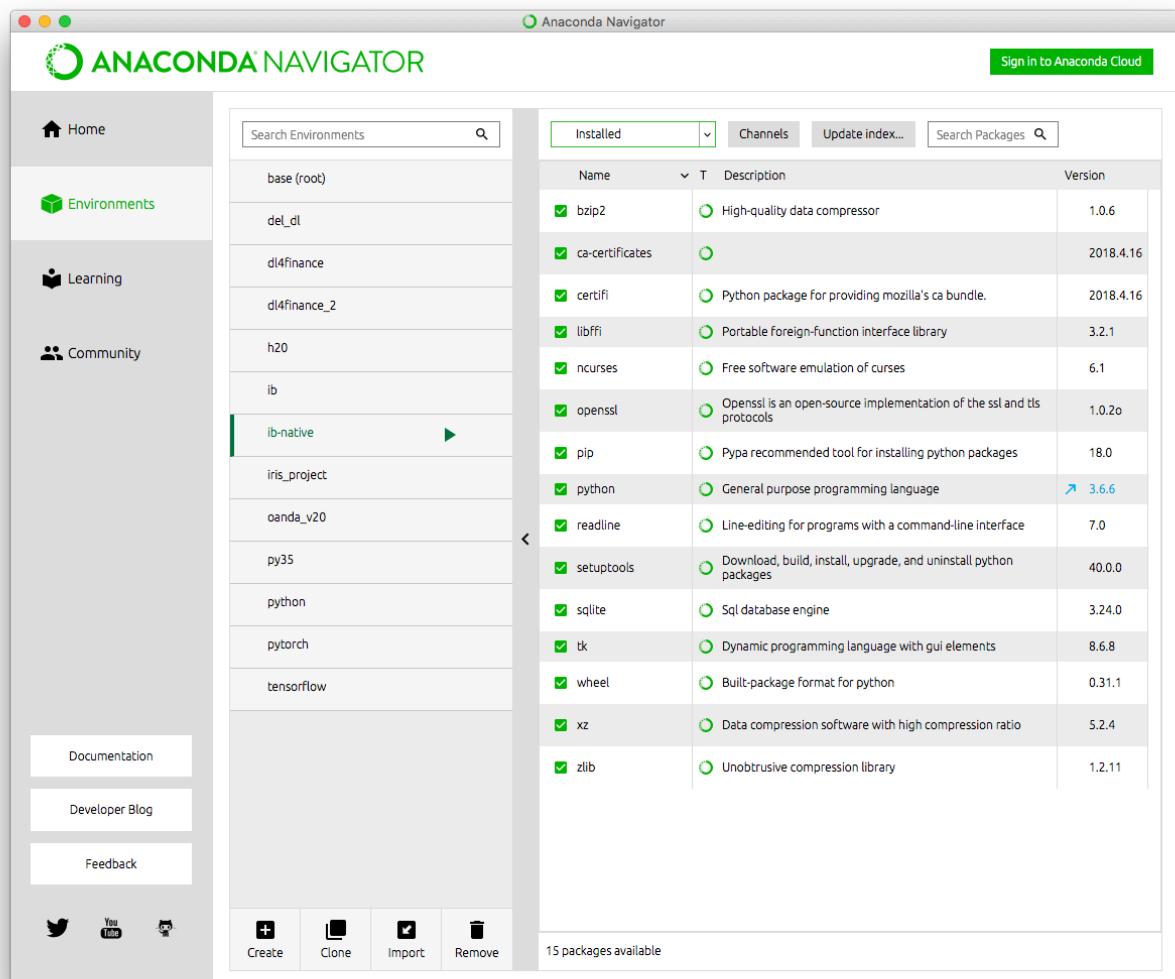


Friday, 10 August 2018 1:58 PM

## Step 1. Install new environment





## Step 2. Installing the TWS (IB Gateway is contained within) API

<http://interactivebrokers.github.io/tws-api/>

The screenshot shows the Interactive Brokers homepage. At the top right, there is a navigation bar with links for ENGLISH, SEARCH, LOG IN, OPEN ACCOUNT, and FREE TRIAL. Below the navigation bar, there is a main menu with categories: WHY IBKR, PRICING, PRODUCTS, TECHNOLOGY (which is currently selected), EDUCATION, ABOUT IBKR, and CONTACT US. A sidebar on the left features the text "Integrated Investment Management with Lower Costs and Higher Returns One World, One Account" and a "START HERE" button. On the right, there is a section titled "IB Feature Explorer" with a link to "Browse all the advantages of an IB account". The background of the page features a large image of the New York Stock Exchange building with flags flying in front. At the bottom, there is a section titled "IB NEWS HEADLINES" with four cards: "Why manage your investments at IBKR?", "HK IPO Subscriptions", "Careers at IBKR", and "IBKRQuant Traders' Insight".

The screenshot shows the "API Solutions" page of the Interactive Brokers website. The top navigation bar and main menu are identical to the homepage. Below the main menu, there is a list of API solutions: "IB API – Subscribe to and view market data through your custom application while taking advantage of Trader Workstation, our innovative trading platform.", "IB Gateway – Connect to IB market data in a seamless experience with a minimal interface.", and "WT Web API – Add market data and chart data to your custom trading interface or website.". Below this list, there is a section titled "View Your Account Data" with a bulleted list: "Access all of your critical IB account data, including positions, balances and margin requirements, through your own custom IB API application." and "Use IB Gateway to access your account data in a seamless, minimal interface.". A note below states, "Our dedicated API support team is ready to help you with your IB API and FIX CTCI questions." At the bottom, there are three red buttons with white text: "LEARN MORE ABOUT IB API →", "LEARN MORE ABOUT FIX CTCI →", and "LEARN MORE ABOUT WT WEB API →". A footer section at the very bottom asks, "Not sure which of our APIs is right for you?", followed by a link to "Learn more about the solutions we offer, and compare key attributes to help you find the best API for your needs." and a "DOWNLOAD USER DOCUMENTATION" button.



The screenshot shows the Interactive Brokers website with a dark background featuring a hexagonal circuit board pattern. In the center, there's a large white box containing the text "IB API" and "Your application, our trading system." Below this, a large block of C code is displayed. At the bottom of the main content area, there's a section titled "IB API Software" with a note about supported programming languages.

Our proprietary API solutions let you create your own trading programs that take advantage of our high-speed order routing and broad market depth.

**IB API Software**

Use our proprietary Application Program Interface (API) to build your own automated rules-based trading application in your favorite programming language or protocol, including:

Can be installed from the IB web site LOG IN menu.	Yes	Yes
Can also be used as a connection interface for the FIX CTCI API.	No	Yes
GUI-less Interface runs more efficiently and uses fewer system resources. <sup>1</sup>	No	Yes

Scroll to the bottom

The screenshot shows the bottom section of the Interactive Brokers website. It features a table comparing the API software with other options, followed by a notes section and a note about a GUI frame. At the very bottom, there's a red banner with three buttons: "GET API SOFTWARE →", "IB GATEWAY LATEST SOFTWARE ↓", and "IB GATEWAY SOFTWARE ↓". A hand-drawn arrow points from the text "Can be installed from the IB web site LOG IN menu." towards the "GET API SOFTWARE" button.

Can be installed from the IB web site LOG IN menu.	Yes	Yes
Can also be used as a connection interface for the FIX CTCI API.	No	Yes
GUI-less Interface runs more efficiently and uses fewer system resources. <sup>1</sup>	No	Yes

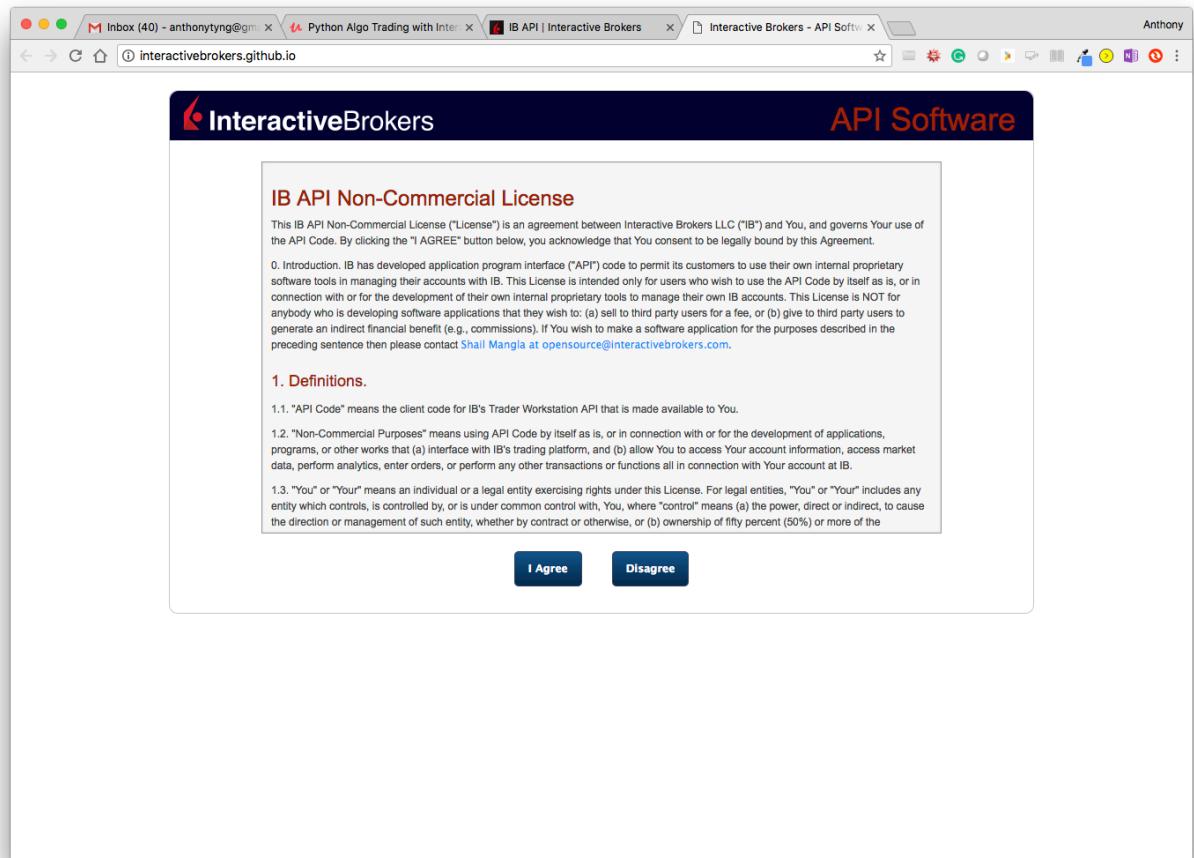
Notes:

<sup>1</sup> Contains a login frame and GUI to display the current connection which requires a Desktop Environment to run.

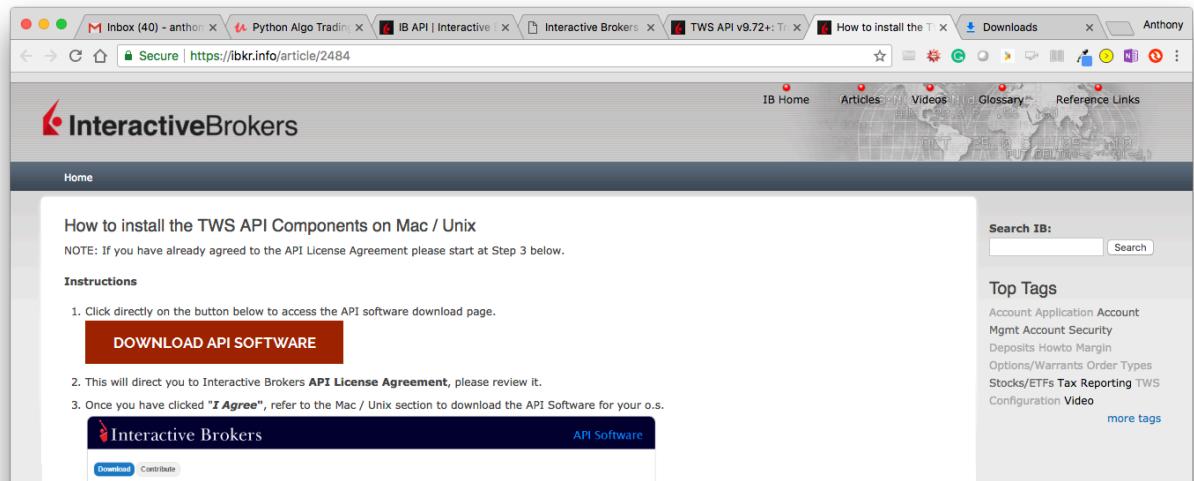
**API SOFTWARE**

GET API SOFTWARE →    IB GATEWAY LATEST SOFTWARE ↓    IB GATEWAY SOFTWARE ↓





How to install the tws IB components on Mac/Unix. This applies to IB Gateway as well  
<https://ibkr.info/article/2484>





4. This will download **twsapi\_macunix.n.m.zip** to your computer.  
(where **n** and **m** are the major and minor version numbers respectively)

5. Open Terminal (**Ctrl+Alt+T** on most distributions)  
(On Mac press **Command+Space** to launch Spotlight, then type **terminal** and press **Return**)

6. Navigate to the directory where the installer has been downloaded (normally it should be the Download folder within your home folder) and confirm the file is present.

```
$ cd ~/Downloads
$ ls
```

7. Unzip the contents the installer into your home folder with the following command (if prompted, enter your password):

Note the "click for Mac / Unix Instructions". Make sure you click the link and follow it closely.

[Click for Mac / Unix Instructions](#)

The API Stable for Windows includes the Java, C/C++, .NET, ActiveX, and DDE APIs, along with sample code and spreadsheets. The API Latest for Windows (v973) additionally includes the Python API.

The API Stable for Mac/Unix includes the Java and Posix C++ API source and sample code. The APIs are only available on Windows. The API Latest for Mac/Unix (v973) additionally includes the Python API.

Support: [API Reference Guide](#)

Recommended TWS or IB Gateway version: 977 or higher (for comprehensive feature support) Minimum required version: 959

Follow the sudo unzip...

```
[Anthony's-MBP:ib_native_python anthony$ ls
twsapi_macunix.973.07.zip
[Anthony's-MBP:ib_native_python anthony$ sudo unzip twsapi_macunix.973.07.zip -d SHOME/
Password:
[Archive: twsapi_macunix.973.07.zip
replace /Users/anthony/META-INF/MANIFEST.MF? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
inflating: /Users/anthony/META-INF/MANIFEST.MF
inflating: /Users/anthony/IBJts/API_VersionNum.txt
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/AccountSummaryTags.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/AccountSummaryTags.h
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/AvailableAlgoParams.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/AvailableAlgoParams.h
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/ContractSamples.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/ContractSamples.h
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/FAMethodSamples.h
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/Main.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/makefile
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/OrderSamples.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/ScannerSubscriptionSamples.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/ScannerSubscriptionSamples.h
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/StDAfx.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/TestCppClient.cpp
inflating: /Users/anthony/IBJts/samples/Cpp/TestCppClient/TestCppClient.cpp
```

Cd ~/IBJts



```

inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/scanner.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/server_versions.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/softdollarTier.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/tag_value.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/ticktype.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/utils.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/wrapper.py
inflating: /Users/anthony/IBJts/source/pythonclient/ibapi/__init__.py
inflating: /Users/anthony/IBJts/source/pythonclient/MANIFEST.in
inflating: /Users/anthony/IBJts/source/pythonclient/README.md
inflating: /Users/anthony/IBJts/source/pythonclient/setup.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/manual.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/test_account_summary_tags.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/test_comm.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/test_enum_implem.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/test_order_conditions.py
inflating: /Users/anthony/IBJts/source/pythonclient/tests/test_utils.py
inflating: /Users/anthony/IBJts/source/pythonclient/tox.ini
[Anthony-MBP:ib_native_python anthony]$ ls
twapi_macunix.973.87.zip
[Anthony-MBP:ib_native_python anthony]$ cd ~/IBJts
[Anthony-MBP:IBJts anthony]$ ls
API_VersionNum.txt      samples          source
[Anthony-MBP:IBJts anthony]$

```

## Run the python setup

```

File Edit View Run Kernel Tabs Settings Help
Files + ☐ ↻
Running Untitled1.ipynb Terminal 1
Name Last Modified
samples 6 months ago
source 6 months ago
API_VersionNum.txt 3 months ago
Commands
Untitled1.ipynb test_file_1.txt
bash-3.2$ cd HOME
bash: cd: HOME: No such file or directory
bash-3.2$ ls
3.3.1.zip anaconda3
3.3.1.zip.1 asciidoc-8.6.9
AnacondaProjects combined.tex
Applications ex1
Asset Classes.ipynb ex1.db
Desktop machine learning representation.ipynb
Documents nano.save
Downloads nano.save.1
Dropbox nltk_data
Google Drive opencv-3.3.1
IBJts opencv_contrib-3.3.1
Jts pytorch.ipynb
Library regplot.png
META-INF scikit_learn_data
Movies seaborn-data
Music ssh_key_az
Pictures ssh_key_az.pub
Public tensorflow
Untitled.ipynb test run.ipynb
Untitled1.ipynb test_file_1.txt
bash-3.2$ cd IBJts
bash-3.2$ bash-3.2$ ls
API_VersionNum.txt samples source
bash-3.2$ cd source
bash-3.2$ ls
CppClient JavaClient pythonclient
bash-3.2$ cd python client
bash: cd: python: No such file or directory
bash-3.2$ 

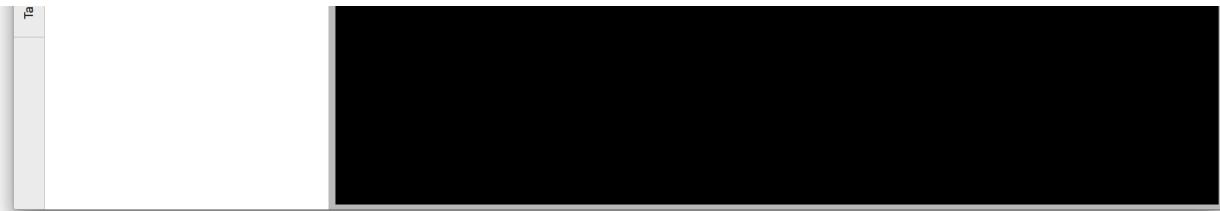
```

```

File Edit View Run Kernel Tabs Settings Help
Files + ☐ ↻
Running Untitled1.ipynb Terminal 1
Name Last Modified
samples 6 months ago
source 6 months ago
API_VersionNum.txt 3 months ago
Commands
bash-3.2$ ls
MANIFEST.in build ibapi setup.py tox.ini
README.md dist ibapi.egg-info tests
bash-3.2$ python setup.py

```





Open the readme.me file and read the contents of the file and follow it!!!

Inbox (40) - anthonytyng@gmail.com Python Algo Trading with Inter... IB API | Interactive Brokers Interactive Brokers - API Softw... TWS API v9.72+- Trader Works... Anthony

interactivebrokers.github.io/tws-api/

InteractiveBrokers C# Java VB C++ Python Search... Contact us

**TWS API v9.72+**

Trader Workstation API

Build your own trading applications in Java, .NET (C#), C++, Python, or DDE, using our Trader Workstation Application Programming Interface (TWS API).

Trader Workstation API

ACTIVE X + #

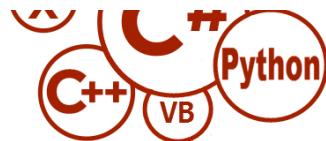
DDE

Excel JAVA

Introduction  
Initial Setup  
Using Third Party API Platforms  
Excel APIs  
Troubleshooting & Support  
Programming the API: Architecture  
Connectivity  
Financial Instruments (Contracts)  
Orders  
Streaming Market Data  
Historical Market Data



- ▶ Account & Portfolio Data
- ▶ Options
- ▶ Financial Advisors
- ▶ Fundamental Data
- ▶ Error Handling
- ▶ Market Scanners
- ▶ News
  - IB Bulletins
- ▶ Display Groups
- ▶ Namespaces
- ▶ Classes



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