Getting Started

Install Instructions

In order to interact with the optibook virtual exchange, please follow the instructions below.

1. Make sure you have Python 3.7+ installed. If not, here is the link: https://www.python.org/downloads/. **Python 3.6 is not supported!**

2. Open a new terminal, if you are on windows this should be a "git bash" terminal (if you have not installed git, go and install git!). If everything went well, you should now be able to type `python3 --version`, and see the installed version of python. It is possible that instead of `python3`, your installed version is also called `python37` or just `python`. Make sure that the version that is printed however is python3.7 (or newer).

3. (optional) Create a virtual environment to work in. This is not a strict requirement, but will most likely make your life easier. Follow the steps below:

   - Install virtualenv with: `pip install virtualenv`
   - Create a new virtual environment with `virtualenv -p PATH_TO_PYTHON3.7+ venv`, this will create a copy of python within a new folder called "venv" in your current directory.
   - Activate the virtual envrionment: `source venv/bin/activate`

4. Within your virtual envrionment, install jupyter notebook with: `pip install jupyter`.

5. Find the file named "optibook-1.0.0-py3-none-any.whl" located in the same zip-file as this document. This is a pip package containing the optibook client used to connect to our virtual exchange. Within your virtual envrionment, install this file with: `pip install path/to/optibook-1.0.0-py3-none-any.whl`.

You should now have installed everything you need in order to interact with optibook. Continue with the "Connecting to Optibook" in order to send your first orders.

Connecting to Optibook

Now it is time to connect to the exchange and send your first orders!

1. In your terminal, navigate to the "notebooks" directory within this repository, and type `jupyter notebook`. This should open a new browser window for you, with Juypter running insde. **If you have never worked with Juypter, I highly highly recommend you watch this video here:** https://www.youtube.com/watch?v=jZ952vChhuI

2. Now, click on the "Manual.ipynb" file. This notebook contains examples for almost all interactions that are possible with our optibook client. Use it as a reference later on when you interact more in-depth with optibook. In case you ever get stuck, you can also check-out the sources of the client either by delving into the installed wheel, or by looking at the sources contained in the zip-file you downloaded.

3. Within the "Manual.ipynb" notebook, change the username / password in the credentials section to your own.

4. Read through the "Manual.ipynb" notebook and make sure you familiarize yourself with the different interactions that are possible with our exchange.

5. Set the instrument to "SP500", and execute the first 3 code blocks in the python notebook. You can do this by pressing "SHIFT+ENTER" if the border of the block you have currently selected is blue.

6. You are all set! You should now be able to insert orders. Open the PDF called "Intro Exercise", and start working on those problems. You can see your trades pop-up on the visualizer here: http://chi-tech-starters.optibook.net:8080/.