

How Open Source Revolutionises Quant Finance

Yves Hilpisch

Big Data in Quant Finance
London, 12.June 2015



Yves Hilpisch – <http://hilpisch.com>

Python



Quant



Warrior



The Python Quants – <http://tpq.io>

Products
Technology
& Books

Services & Training
Consulting, Development
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Community
Conferences,
Meetups & Web



Eurex Advanced Services



For Python Quants



Quantshub Training



Python for Quant Finance

The Usual Disclaimer

Brought to you via [amazon.com](https://www.amazon.com)

2 of 4 people found the following review helpful

★☆☆☆☆ **Nothing very interesting (be careful some reviews probably fake)**

By [Delpacho](#) on May 18, 2015

Format: Paperback

For a book named "Python for Finance" you would expect some real insight and practitioner examples. I found none! The author, Yves Hilpisch, writes a book on finance but has no actual finance experience therefore the examples look like they were given for an undergrad class entitled "financial engineering 101".

Also I noticed some reviews look suspicious on the UK and US amazon.

Agenda for Today

- A. Open Source Deployment via the Browser
<http://jupyter.quant-platform.com>
- B. Financial Analytics in Action on Quant Platform
http://web.quant-platform.com/trial/yves/bdqf_ipython.html
- C. Some New Data Analytics Libraries in Python
<http://web.datapark.io/yves/> – tstable, bcolz, blaze
- D. Derivatives Analytics with DX Analytics incl. Case Study
https://web.quant-platform.com/trial/yves/bdqf_dx_vol_var.html
- E. Web Application Deployment on Quant Platform
<http://analytics.quant-platform.com:7777>

I. Our Market and the Problem

II. How to Solve the Problem



Today's standard is "open source", even for key technologies.

IP[y]: IPython
Interactive Computing

Complex analytics work flows are coded in the browser.



Individuals and institutions store more and more data in the cloud.



More and more data sets are "open and free".

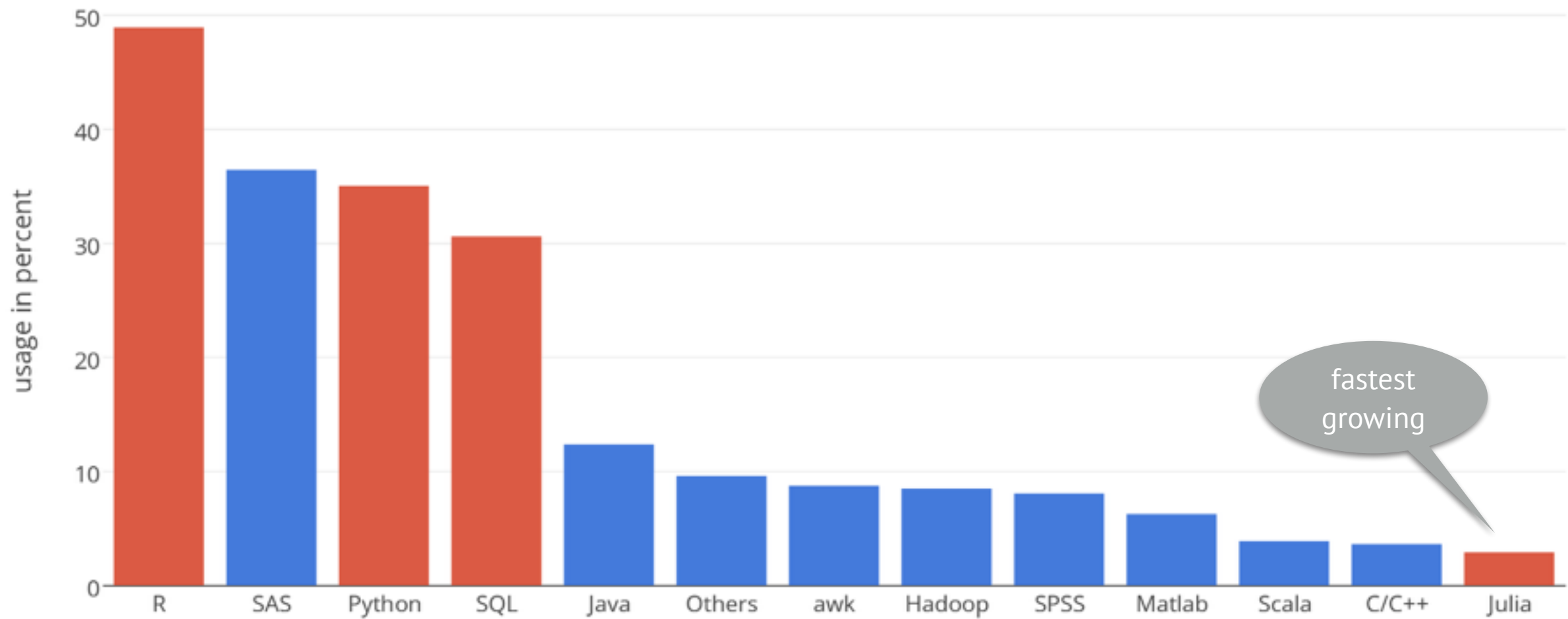


Dynamic communities shape the way knowledge is transmitted

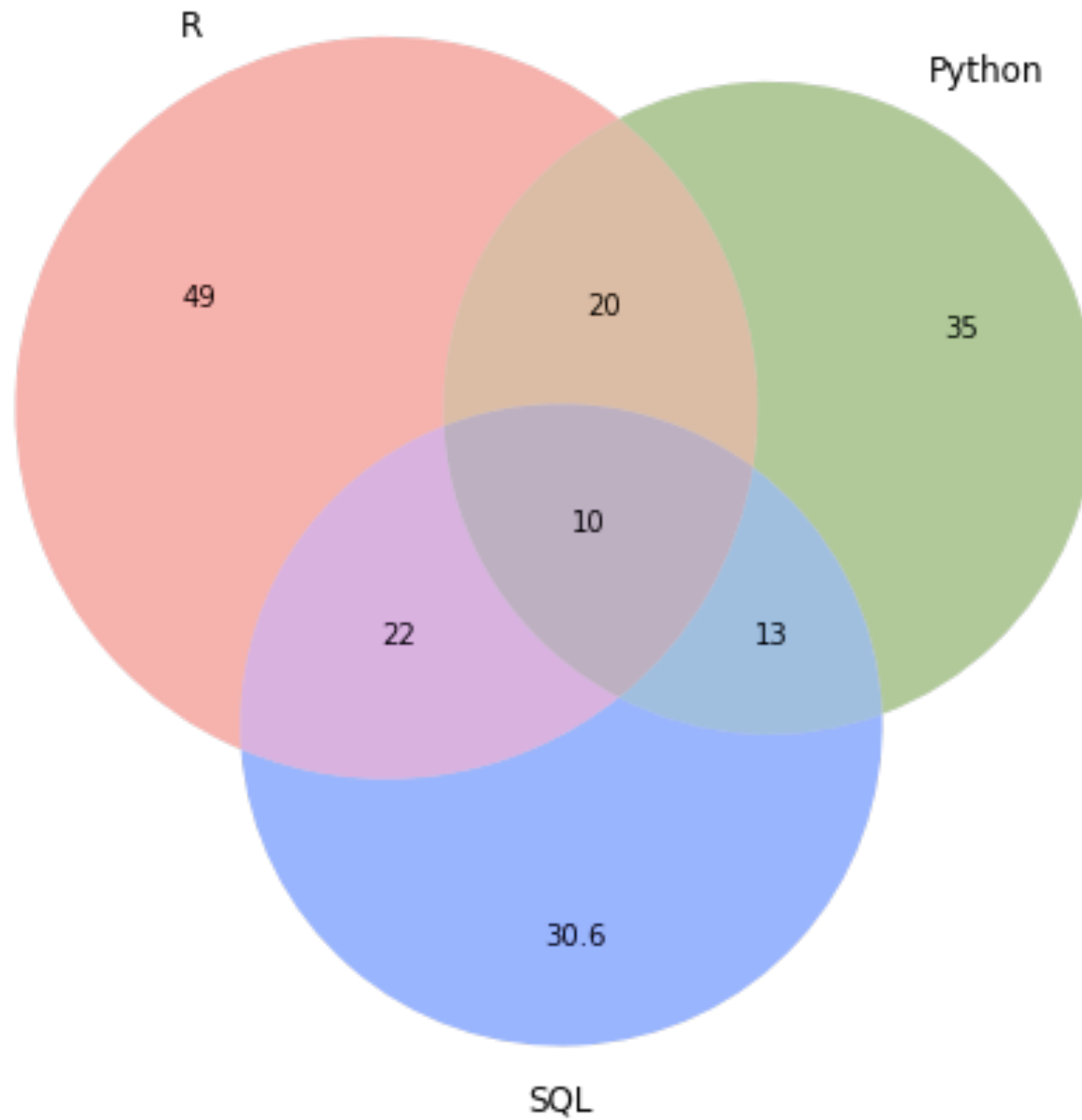


Infrastructure is a standardized commodity, billed by the hour.

Data Science Languages



Poll data from August 2014. Source: <http://www.kdnuggets.com>



Poll data from August 2014; usage in %. Source: <http://www.kdnuggets.com>

Open Source

fast changing
environment

Vendors & Partners

almost no Python for
Quant Finance experts

Libraries

for financial analytics
mainly missing

Tools & Processes

no real standards,
isolated applications only

Deployment

complex, costly,
lengthy, risky

Maintenance

how to update,
maintain infrastructure?

Diverse End Users

computer & data scientists
as well as domain experts

Training

how to train and
re-train people?

Start

where and how to
start, who to talk to?

- I. Our Market and the Problem
- II. How to Solve the Problem**





**“Absorb what is useful, discard what is not,
and add what is uniquely your own.”**

—Bruce Lee

IP[y]: IPython
Interactive Computing



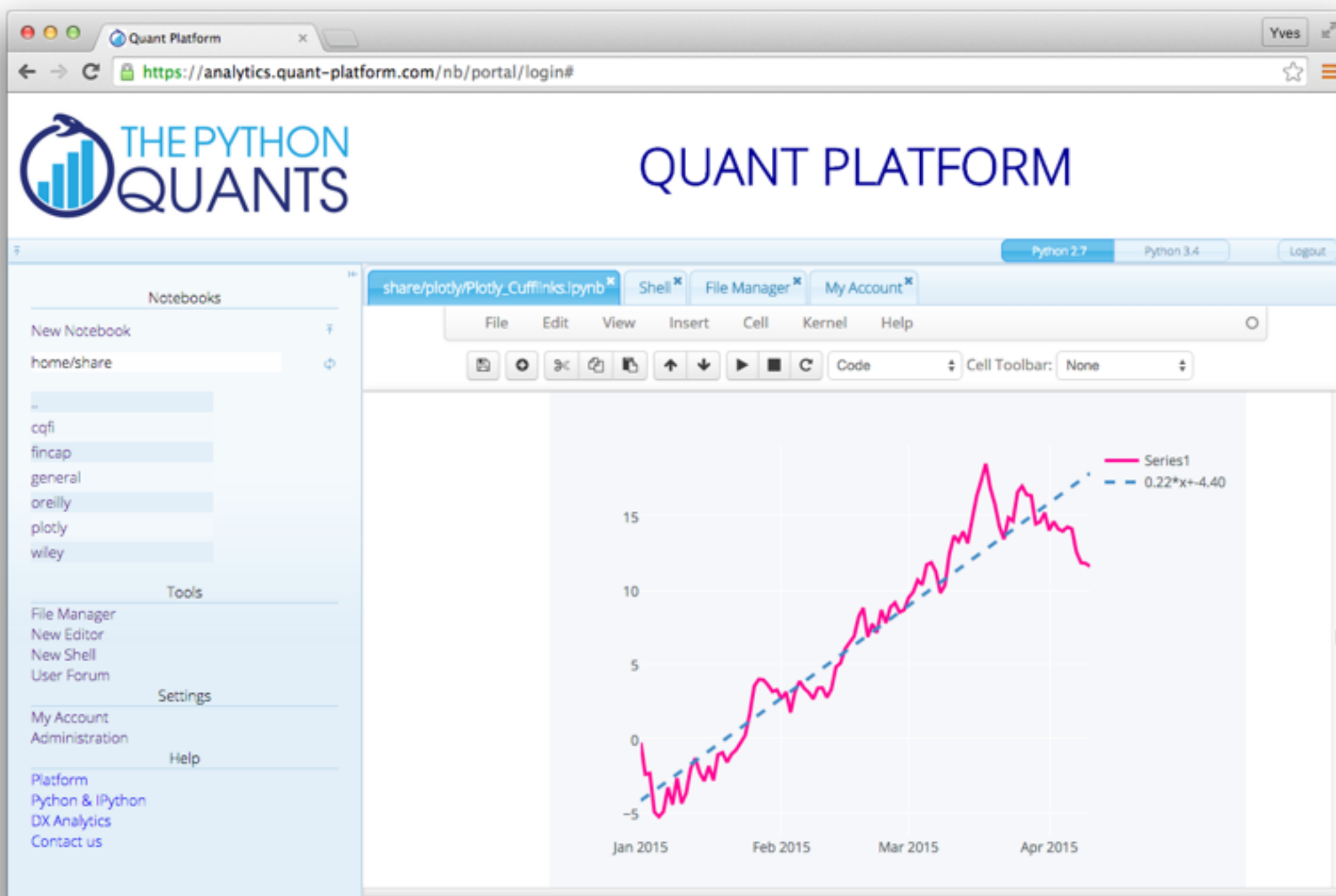
Standard tools and technologies quants and data scientists know and love.

“Only standards, easy in, easy out, fully integrated.”

IPython Notebook/Jupyter, upload, download (eg “zip all”),
integrated with Dropbox, deployable anywhere.

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Just try it.

<http://quant-platform.com>

Give us feedback.

team@tpq.io



**DX Analytics on
Quant Platform**

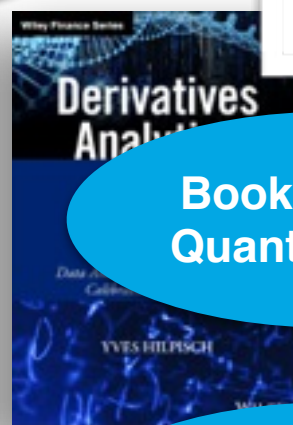


**DEXISION with
Quant Platform**



**Client
projects &
deployments**

**Books
explaining
DX Analytics**



**Book Code on
Quant Platform**



**Events using
Quant Platform**

**Trainings using
Quant Platform**

**Trainings based
on books**



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