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2 days since Bootcamp Start

Feedback

Here you can give us some quick feedback on the Fall Python Boot Camp (2015).

* Required

A little bit about you

What days of the Boot Camp did you attend? *

- Day 1 (Wednesday)
- Day 2 (Thursday)
- Day 3 (Friday)
- I mostly watched on YouTube

Your department/UC/LBNL affiliated research group *





What's Next?



doscience.py

Fork me on GitHub

<https://github.com/profjsb/ScienceWithPython> 

Download

Download these documents

Docs for other versions

[Python 2.7 \(stable\)](#)
[Python 3.3 \(stable\)](#)
[Python 3.5 \(in development\)](#)
[Old versions](#)

Other resources

[PEP Index](#)
[Beginner's Guide](#)
[Book List](#)
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Quick search

Go

Enter search terms or a module, class or function name.

Python 3.4.3 documentation

Welcome! This is the documentation for Python 3.4.3, last updated Aug 14, 2015.

Parts of the documentation:

[What's new in Python 3.4?](#)

or all "What's new" documents since 2.0

[Tutorial](#)

start here

[Library Reference](#)

keep this under your pillow

[Language Reference](#)

describes syntax and language elements

[Python Setup and Usage](#)

how to use Python on different platforms

[Python HOWTOs](#)

in-depth documents on specific topics

Indices and tables:

[Installing Python Modules](#)

installing from the Python Package Index & other sources

[Distributing Python Modules](#)

publishing modules for installation by others

[Extending and Embedding](#)

tutorial for C/C++ programmers

[Python/C API](#)

reference for C/C++ programmers

[FAQs](#)

frequently asked questions (with answers!)



» Package Index

PACKAGE INDEX

- [Browse packages](#)
 - [Package submission](#)
 - [List trove classifiers](#)
 - [List packages](#)
 - [RSS \(latest 40 updates\)](#)
 - [RSS \(newest 40 packages\)](#)
 - [Python 3 Packages](#)
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ABOUT

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PyPI - the Python Package Index

The Python Package Index is a repository of software for the Python programming language. There are currently **64991** packages here.

To contact the PyPI admins, please use the [Support](#) or [Bug reports](#) links.

Get Packages

To use a package from this index either "[pip install package](#)" ([get pip](#)) or download, unpack and "`python setup.py install`" it.

Package Authors

Submit packages with "[python setup.py upload](#)". The index [hosts package docs](#). You may also use the [web form](#). You must register. Testing? Use [testpypi](#).

Infrastructure

To interoperate with the index use the [JSON](#), [OAuth](#), [XML-RPC](#) or [HTTP](#) interfaces. Use [local mirroring or caching](#) to make installation more robust.

Updated	Package	Description
2015-08-21	dataone.libclient 1.2.18.2	A DataONE client library for Python
2015-08-21	staat 8	Behandeling met antispsychotica is langdurige opzettelijke benadering van de gezondheid met de dood ten gevolge.
2015-08-21	eemeter 0.2.5	Open Energy Efficiency Meter
2015-08-21	pyuntl 1.0.0	read, write and modify UNTL metadata records
2015-08-21	pymks 0.2.2	Materials Knowledge Systems in Python (PyMKS)
2015-08-21	hypchat 0.20	Package for HipChat's v2 API
2015-08-21	statu 0.3.1	Python State Machines for Humans
2015-08-21	dbio 0.4.4	Simple module for database I/O operations.
2015-08-21	django-s3file 0.5.1	A lightweight Fine Uploader input for Django and Amazon S3

[Questions](#)[Tags](#)[Users](#)[Badges](#)[Unanswered](#)[Ask Question](#)

Tags

[popular](#)[name](#) [new](#)

A tag is a keyword or label that categorizes your question with other, similar questions. Using the right tags makes it easier for others to find and answer your question.

Type to find tags:

python × 127010

a dynamically and strongly typed programming language whose design philosophy emphasizes code readability,

244 asked today, 1357 this week

python-3.x × 2786

the latest version of the Python programming language and was formally released on 03-December-2008.

36 asked this week, 153 this month

wxpython × 2059

a Python wrapper for the cross-platform C++ GUI API wxWidgets.

5 asked today, 23 this week

python-2.7 × 1705

the latest, and last, major release of Python in the 2.x series.

15 asked today, 89 this week

ironpython × 973

an open-source implementation of the Python programming language which is tightly integrated with the .NET

19 asked this month, 259 this year

ipython × 440

a feature-rich interactive shell for Python

6 asked this week, 26 this month

mysql-python × 371

A thread-compatible interface to the popular MySQL database server that provides the Python database API.

8 asked this week, 27 this month

python-sphinx × 317

a tool that makes it easy to create intelligent and beautiful documentation. Sphinx is especially suitable for Python

7 asked this week, 22 this month

boost-python × 295

Library for intuitive and tight integration between c++ and python.

7 asked this week, 21 this month

python-2.6 × 294

specific to Python 2.6. If your question applies to Python in general, use the tag [python].

24 asked this month, 134 this year

mod-python × 221

an Apache module that embeds the Python interpreter within the server.

43 asked this year

python-2.x × 195

For issues relating to development in Python, version 2.x.

11 asked this month, 98 this year

python-module × 174

a file containing Python definitions and statements.

9 asked this month, 94 this year

python-c-api × 160

API used by C and C++ programmers who want to write extension modules or embed Python.

5 asked this month, 77 this year

python-2.5 × 144

For issues relating to development in Python, version 2.5.

8 asked this month, 74 this year

pythonpath × 134

an environment variable that Python uses to get the list of directories to search for modules and files

11 asked this month, 65 this year

← → C ⌂ https://www.reddit.com/r/python

MY SUBREDDITS ▾ FRONT ALL RANDOM | FUNNY TODAYILEARNED AWW PICS GIFS VIDEOS GAMING WORLDNEWS ASKREDDIT MILDLYINTERESTING NEWS SHOWERS

python

hot new rising controversial top gilded promoted

↑ I'm creating an example Python Machine Learning notebook for newcomers to the field. The goal is to show
85 what an example ML project would look like from start to finish. I'd love your feedback or contributions to
↓ make it better. [github.com](https://github.com/rhiever)
submitted 5 hours ago by [rhiever](#)
[16 comments](#) share save hide report pocket

↑ Scrapy on the Road to Python 3 Support blog.scrapinghub.com
41 submitted 9 hours ago by [ddebernardy](#)
↓ [11 comments](#) share save hide report pocket

↑ I made a reddit bot that creates memes out of image posts and their top comments, check it out self.Python
173 + submitted 23 hours ago * by [cDoubt](#)
↓ [58 comments](#) share save hide report pocket

↑ Scraping dynamic pages self.Python
● + submitted an hour ago by [Pythonzzz](#)
↓ [3 comments](#) share save hide report pocket

↑ How I Hacked Amazon's \$5 WiFi Button to track Baby Data medium.com
117 submitted 22 hours ago by [piterpolk](#)
↓ [15 comments](#) share save hide report pocket

↑ Very new to Python/programming, and I have a question about how to keep a program running over long periods self.Python
2 + submitted 2 hours ago by [spearhard](#)
↓ [3 comments](#) share save hide report pocket

↑ I have 5 python script files that I want to run simultaneously in parallel. self.Python
2 + submitted 3 hours ago by [StinkyMilkman](#)
↓ [4 comments](#) share save hide report pocket

↑ Zeroless - ZeroMQ for Pythonistas™ x8lucas8x.com
41 submitted 20 hours ago by [x8lucas8x](#)
↓ [4 comments](#) share save hide report pocket

↑ The past, present, and future of Jupyter and IPython youtube.com
● + submitted 15 minutes ago by [TDaltonC](#)
↓ [comment](#) share save hide report pocket

↑ help a new user self.Python
● + submitted 18 minutes ago by [jmparejaz](#)

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comments related other discussions (1)

- 76 ↑ Astrophysicist Joshua Bloom on Python as Super Glue for the Modern Scientific Workflow youtube.com
submitted 3 years ago by 16807
11 comments share save hide give gold report pocket

all 11 comments

sorted by: best

- [-] imsittingdown 12 points 3 years ago

I'm doing my PhD in computational plasma physics. I switched from IDL to Python and haven't looked back.
There is a module for almost everything I could ever want.

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- [-] shaurz 6 points 3 years ago

```
1 import physics
2 results = physics.lhc.collide(physics.Positron(), physics.Atom("Au"), velocity = 0.9 * physics.C)
```

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- [-] UF_Engineer 4 points 3 years ago

I interned at an astrophysics observatory and Python was the go-to choice. Some of the other departments used MATLAB though, for reasons I don't really recall. I think it had to do with the amount of data they were analyzing and some of the plotting functions.

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- [-] Lexarius 8 points 3 years ago

While some MATLAB toolboxes are genuinely valuable and could justify using MATLAB, most groups use it because it's the expensive thing that whoever your last boss/professor/whatever wanted things done in, and it didn't suck enough to migrate to something else.

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- [-] billsil 4 points 3 years ago

IP[y]: Notebook

Claudia Last Checkpoint: Aug 24 17:10 (unsaved changes)

File Edit View Insert Cell Kernel Help



Code

Cell Toolbar: None



In [1]: `print "my name is Claudia"`

my name is Claudia

In [4]: `2+8`

Out[4]: 10

In [3]: `2+5 == 7`

Out[3]: True

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

Out[4]: False

In [5]: `8+1`

Out[5]: 9

In [6]: `5+3`

Out[6]: 8



← → C ⌘ https://www.reddit.com/r/IPython

MY SUBREDDITS FRONT - ALL - RANDOM | FUNNY - TODAYILEARNED - AWW - PICS - GIFS - VIDEOS - GAMING - WORLDNEWS - ASKREDDIT - MILDLYINTERESTING - NEWS - SHOWS

IP[y]: IPython™ Interactive Python Jupyter

IPYTHON hot new rising controversial top gilded promoted

- 1 [↑ Jupyter qtconsole colors](#) (self.IPython)
submitted 3 days ago by dYz
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- 2 [↑ Embedding Videos in Slide Shows - a word of caution](#) (self.IPython)
submitted 5 days ago by NomadNella
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- 3 [↑ How to access to the ipython server from a virtual machine?](#) (self.IPython)
submitted 7 days ago by KleinerNull
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- 4 [↑ Released IPython 4.0, completing The Big Split](#) (mail.scipy.org)
submitted 9 days ago by NomadNella
[comment](#) [share](#) [save](#) [hide](#) [report](#) [pocket](#)
- 5 [↑ \[MatPlotLib\] Is there a way to have multiple figures in docked/slide-show format at a jupyter notebook?](#) (self.IPython)
submitted 8 days ago * by waspbr
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- 6 [↑ Spell Checking Proof of Concept](#) (self.IPython)
submitted 8 days ago by NomadNella
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- 7 [↑ Help starting an ipcluster](#) (self.IPython)
submitted 9 days ago by Nietzschemouse
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- 8 [↑ nbtop: htop for IPython notebooks.](#) (github.com)
submitted 15 days ago by sudo_0
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- 9 [↑ \[HELP\] running ipython - error invalid command 'egg_info'](#) (self.IPython)
submitted 19 days ago * by Goodbye_Horses
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- 10 [↑ Jupyter 3.2.1 on Windows, browsing outside home directory.](#) (self.IPython)
submitted 22 days ago by peacegnome
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- 11 [↑ interactive graph visualization in ipython. what libraries have worked well for you?](#) (self.IPython)
submitted 26 days ago by throwpillo
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- 12 [↑ Jupyter 'execute' message lacking namespace/filename information?](#) (self.IPython)
submitted 26 days ago * by vitron
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Quora

Quora Infrastructure: Programming Languages Python (programming language) Quora
Web Development Edit

★ Why did Quora choose Python for its development? Edit

Since Adam D'Angelo, the founder, had worked for Facebook, which heavily uses PHP. I am trying to understand the technical challenges the founders of Quora faced before they decided to go with Python rather than PHP. Edit

1 Comment · Post (6) · Options · Redirect Question

2 Answers



Adam D'Angelo, Quora Founder

610 votes by Nizameddin Haşim Ordulu, JR Ignacio, Richard Henry, (more)



PHP was out of the question. Facebook is stuck on that for legacy reasons, not because it's the best choice right now.^[1] Our main takeaway from that experience is that programming language choice is very important and is extremely costly to change.

Python was a language that Charlie and I both knew reasonably well (though I know it a lot better now than I did when we started). We also briefly considered C#, Java, and Scala. The biggest issues with Python are speed and the lack of typechecking.

C# seemed pretty promising. As a programming language, it's great, but:

- We didn't want to be on the Microsoft stack. We were up for learning something new, and MS SQL Server actually seemed pretty good, but we knew we'd need to integrate with lots of open source code that has only second-class support for .NET, if it supports it at all. Also, most of the best engineers these days are used to open source stuff.
- We didn't want to take the risk of being on Mono (an open source implementation of C#/.NET). It's not clear how long funding will be around for that project, and I'd heard of various performance problems. Plus, it seemed like everything else in the C# ecosystem would assume we were on the Microsoft stack.

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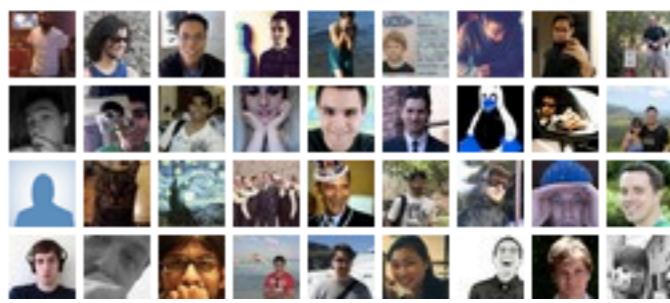
Question Stats

Latest activity 16 Jun.

This question has 6 monitors with 75550 topic followers and 3 aliases exist.

42791 people have viewed this question.

753 people are following this question.



www.quora.com/Python-programming-language-1/What-are-some-cool-Python-tricks

Quora quora cool python tric Write Home 7 Joshua



Python (programming language): [Edit](#)

What are some cool Python tricks?

[Add Question Details](#)

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28 Answers

[Anders Kaseorg, MIT '08, Co-Founder of Ksplice, Inc.](#)

95 votes by Justin Watt, John Clover, Saurabh Sharan, (more)



List comprehensions and generator expressions

Instead of building a list with a loop:

```
1 b = []
2 for x in a:
3     b.append(10 * x)
4 foo(b)
```

you can often build it much more concisely with a **list comprehension**:

```
1 foo([10 * x for x in a])
```

or, if `foo` accepts an arbitrarily iterable (which it usually will), a **generator expression**:

```
1 foo(10 * x for x in a)
```

Python 2.7 supports dict and set comprehensions, too:

```
1 >>> {x: 10 * x for x in range(5)}
2 {0: 0, 1: 10, 2: 20, 3: 30, 4: 40}
3 >>> {10 * x for x in range(5)}
4 set([0, 40, 10, 20, 30])
```

Fun tricks with `zip`

Transposing a matrix:

```
1 >>> l = [[1, 2, 3], [4, 5, 6]]
2 >>> zip(*l)
```

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Related Questions

[What are some cool small projects that would be a good introduction to working with important tools and methodologies in Python? \(continue\)](#)

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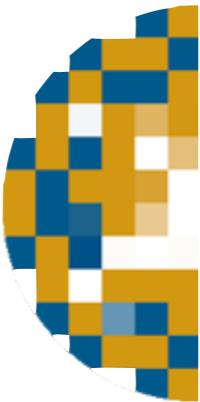
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Question Stats

Latest activity Tue.



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- ▶ **Establish new Data Science career paths that are long-term and sustainable**
 - A generation of multi-disciplinary scientists in data-intensive science
 - A generation of data scientists focused on tool development
- ▶ **Build an ecosystem of analytical tools, teaching, & research practices**
 - Sustainable, reusable, extensible, easy to learn and to translate across research domains
 - Enables scientists to spend more time focusing on their science

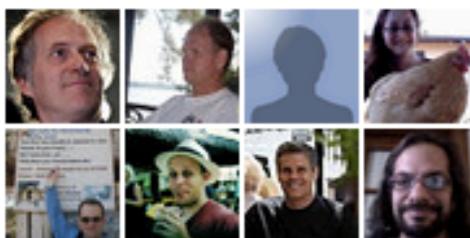


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Guido van Rossum

Creator of the Python programming language.

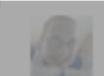
2 circles

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[Guido van Rossum](#) - Jan 13, 2012 - Public

Awesome new Python 3.3 feature! "yield from" (PEP 380).



Jesse Noller originally shared this post:

For those that missed it - "PEP 380 ("yield from") is now Final" <http://bit.ly/xsl1vM> - the PEP: <http://bit.ly/xZj839>



[Travis Whitlock](#) PEP 380 ("yield from") is now Final

[Python-Dev] PEP 380 ("yield from") is now Final. Nick Coghlan ncoghlan at gmail.com. Fri Jan 13 13:14:43 CET 2012. Previous message: [Python-Dev] Status of the fix for the hash collision vu...

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[17 comments](#) - Travis Whitlock, Guido van Rossum, Yuriy Taraday, Mike Coleman, Adrian... ▾



Travis Whitlock - Thanks for pointing me in the right direction. When I posted earlier python.org was not responding.

10:48 AM

Add a comment...



[Guido van Rossum](#) - Jan 12, 2012 - +1'd on www.sfgate.com - Public

I see this from my office window.

[Spear Street, South of Market, S.F.](#)



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Fernando Perez

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Fernando Perez - 1:27 PM - Public

There's been a lot of use of the IPython notebook at the Berkeley Python bootcamp, and people seem to really like it. Several lectures have been notebook-based, and most of the students are running it from EPD without any problems.

With all the progress +Brian Granger has already made in the master branch, it's shaping into a

befriend

Fernando

Brian Granger, organizer of the bootcamp, had a great suggestion: a 'replay' mode which, via a bit of Javascript magic, grays out all input cells and 'types' one cell at a time on a given event, to simulate fully interactive typing on a pre-existing notebook.

Lectures - Python Boot Camp

This is a site for the Python Boot Camp (UC Berkeley short course)

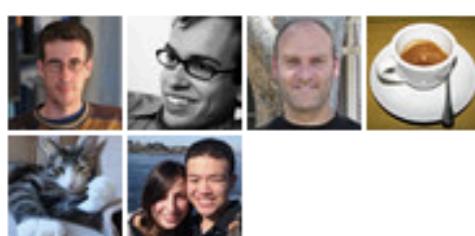
+1 - Comment - Hang out - Share

+5 - You, Brian Granger and 3 more

Damián Avila - Great resources! Thanks for sharing!
3:04 PM

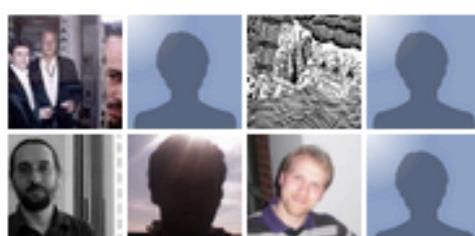
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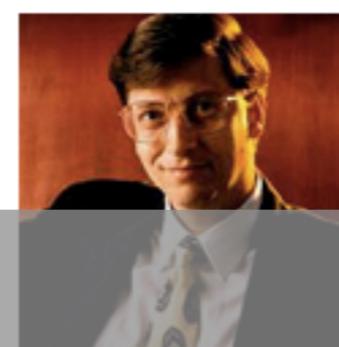


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American business magnate, investor, philanthropist, and author

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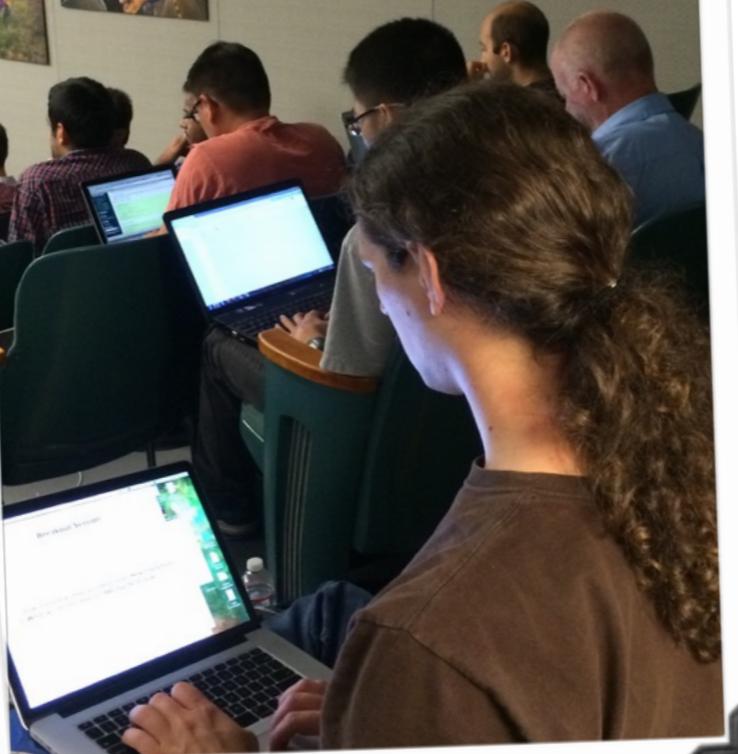
Python Computing for Data Science

[not taught this upcoming year]

<http://profjsb.github.io/python-seminar/>

Date	Content	Leader
Aug 29	Advanced Python Language Concepts (geared towards Boot Camp graduates)	Josh
Sep 5	scipy, numpy	Fernando
Sep 12	Advanced versioning, application building (optparse), debugging & testing	Josh
Sep 19	Advanced plotting, Notebooks and data vizualization, mayavi	Fernando
Sep 26	Machine Learning	Josh
Oct 3	Interacting with the world (xml-rpc, urllib, sending and receiving email, serial)	Josh
Oct 10	Database interaction, large datasets (HDF5)	Josh
Oct 17	Pandas and Timeseries Modelling	Wes McKinney
Oct 24	GUI (Tkinter, GTK, Traits)	Josh
Oct 31	Parallelism	Paul/Fernando
Nov 7	Web frameworks & RESTful APIs, Flask	Josh
Nov 14	Bayesian programming & Symbolic math	Joey Richards
Nov 21	Cython; wrapper around legacy code -- FORTRAN, C, etc	Paul
Nov 28	holiday	
Dec 5/Onward	final project work	

import this



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Feedback

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* Required

A little bit about you

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- I mostly watched on YouTube

Your department/UC/LBNL affiliated research group *

