

Zero to Ninja

Mastering software development

Zero One to Ninja

Mastering software development

Question 1

When was Python started?

Question 2

Who started Python?





We all want to be
great at coding





Wax on, wax off.

Just keep working
hard

... for a very long
time



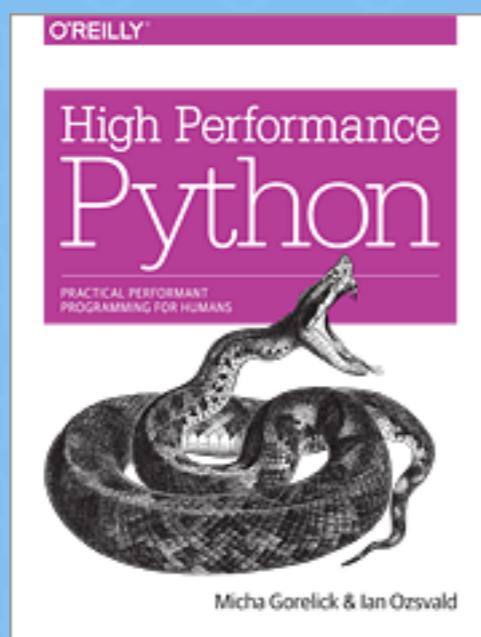
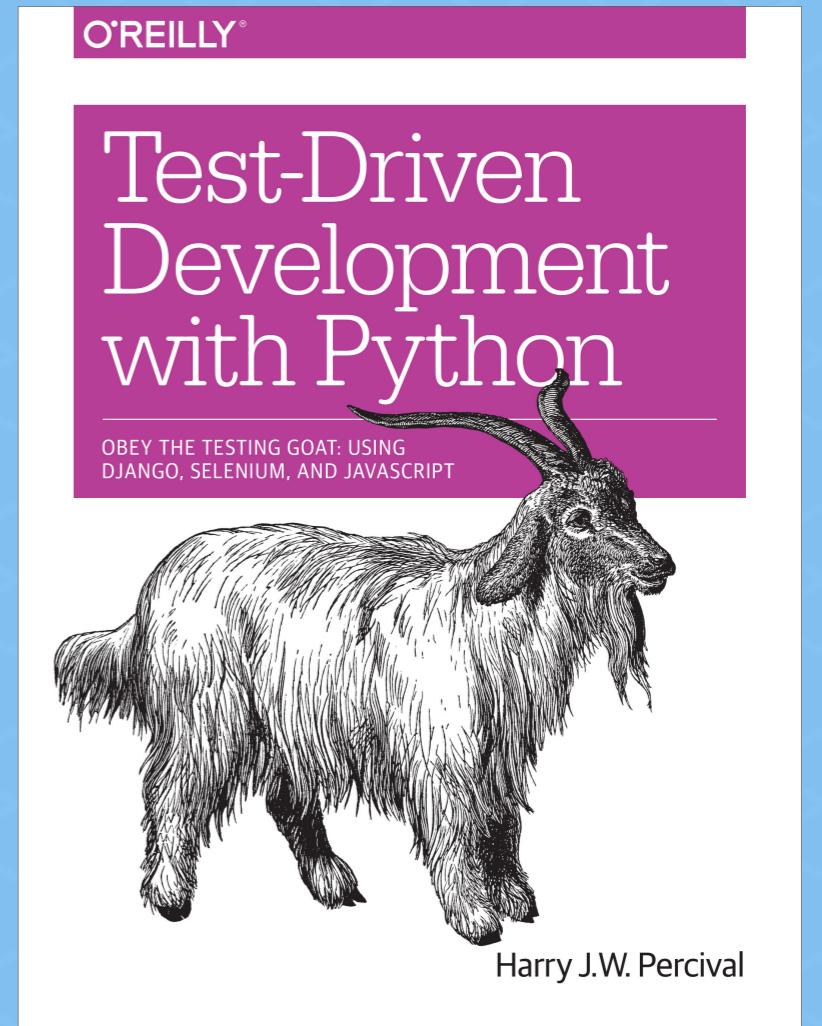
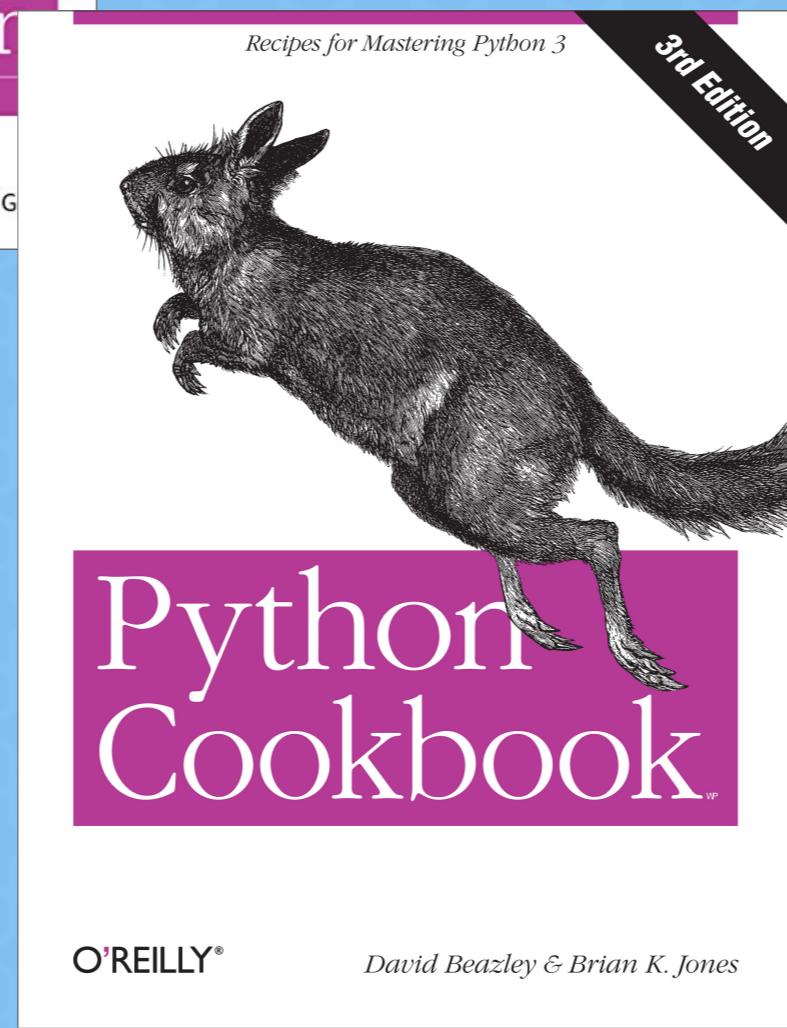
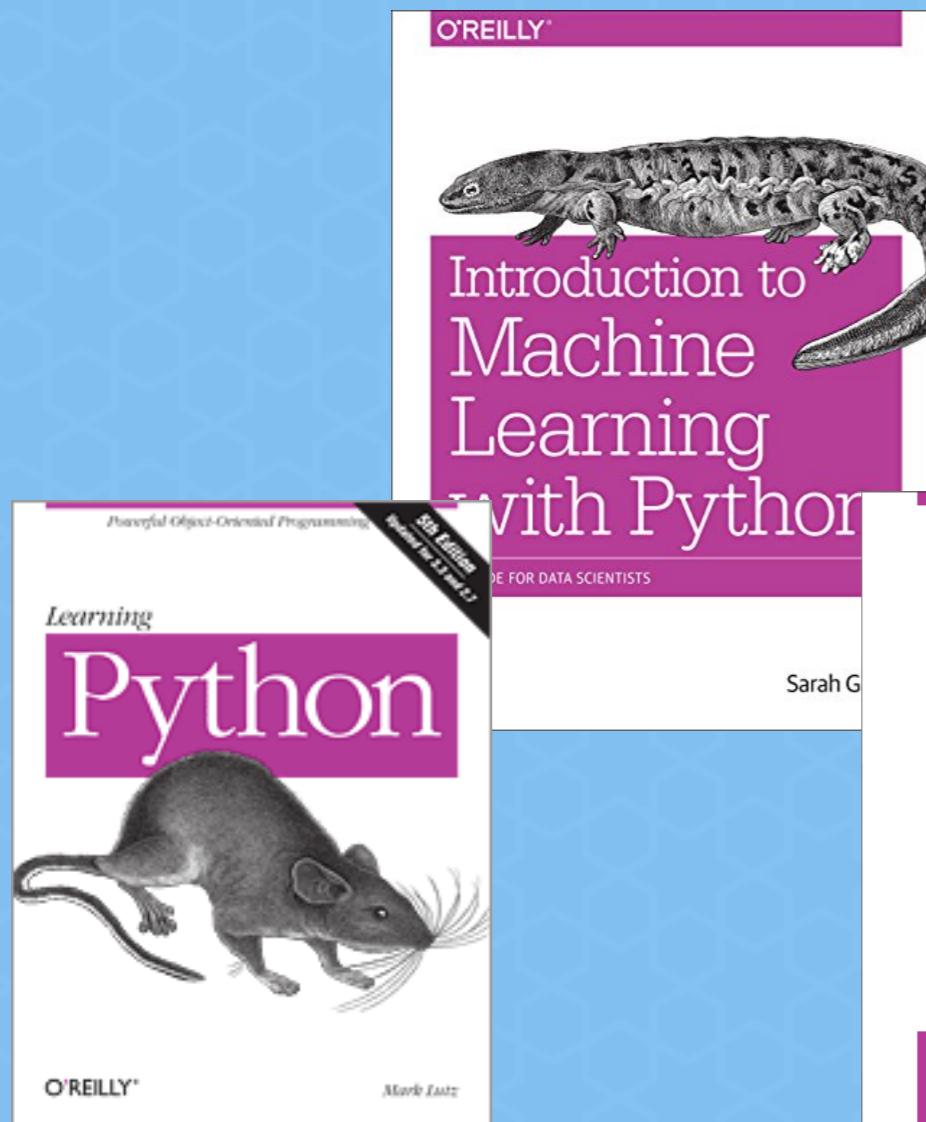
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deliberate practice to
master your field







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Talk Python To Me

A podcast on Python and related technologies

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PYTHON GUIDE

Python Guide Documentation

Release 0.0.1

Kenneth Reitz

November 06, 2016

1 Getting Started with Python

1.1	Picking an Interpreter
1.2	Properly Installing Python
1.3	Installing Python on Mac OS X
1.4	Installing Python on Windows
1.5	Installing Python on Linux

2 Writing Great Python Code

2.1	Structuring Your Project
2.2	Code Style
2.3	Reading Great Code
2.4	Documentation
2.5	Testing Your Code
2.6	Logging
2.7	Common Gotchas
2.8	Choosing a License

3 Scenario Guide for Python Applications

3.1	Network Applications
3.2	Web Applications
3.3	HTML Scraping
3.4	Command-line Applications
3.5	GUI Applications
3.6	Databases
3.7	Networking
3.8	Systems Administration
3.9	Continuous Integration
3.10	Speed
3.11	Scientific Applications
3.12	Image Manipulation
3.13	Data Serialization
3.14	XML parsing
3.15	JSON
3.16	Cryptography
3.17	Machine Learning
3.18	Interfacing with C/C++ Libraries

VIDEOS

~ 40 annual Python
conferences

~~pyvideo.org~~

- PyConUS
- EuroPython
- DjangoCon
- Scipy
- PyData

TUTORIALS



TUTORIALS

This is the full schedule of tutorials for PyCon 2016. See also:

- Full list of tutorials, with abstracts
 - Overview of conference schedule

Each PyCon tutorial is 3 hours of instruction plus a 20 minute break in the middle

Register Now! To sign up for these tutorials, proceed to the registration page and add them to your new or existing registration!

Tutorial Only Registration: After adding in your demographic information on the registration site, please select the "TUTORIAL ONLY" registration category. (does not come with access to the whole conference).

Registration	Pre Conference Rate	On Site Rate
Tutorial Rate	\$150 USD each	\$200 USD each

MAY 28, 2016

Tutorial Only Registration: After adding in your demographic information on the registration site, please select the "TUTORIAL ONLY" registration category. (does not come with access to the whole conference).

Registration	Pre Conference Rate	On Site Rate
Tutorial Rate	\$150 USD each	\$200 USD each

MAY 28, 2016

	B110-111	B112	B113	B114	B115	B116	B117	C120+121	C123+124
09:00AM	Shiny, Let's Be Bad Guys: Exploiting and Mitigating the Top 10 Web App Vulnerabilities Mike Pirnat, David Stanek Intermediate	Documenting your project with Sphinx & Read the Docs Eric Holscher Novice	Machine Learning with Text in scikit-learn Kevin Markham Intermediate	Python Bootcamp Harry Percival Novice	Practical Network Analysis Made Simple Eric J. Ma Intermediate	Pythonic Objects: implementing productive APIs with the Python Data Model Luciano Ramalho Intermediate	Get Started with Git David Baumgold Novice	Flask at Scale Miguel Grinberg Intermediate	PyData 101: Essential data science skills for every programmer, from data to model to visualization Andy Terrel, Christine Doig Novice
12:20PM	Lunch								
01:20PM	Creating, building, testing, and documenting a Python project - a hands-on HOWTO Titus Brown, Luiz Irber Novice	Build Your First Web App with Hello Web App! Tracy Osborn Novice	A Tour of Large-Scale Data Analysis Tools in Python Sarah Guido, Sean O'Connor Intermediate	Ansible 101 Luke Sneeringer Intermediate	Python for Social Scientists: Cleaning and Prepping Data Renee Chu Novice	Hands-on Python - Part 1 Matt Harrison Novice	Regular Expressions Trey Hunner Novice	The Hitchhiker's Guide to TLS & SSL Ivh, Cory Benfield, Glyph, Hynek Schlawack, Paul Kehrer Intermediate	Diving into Machine Learning through TensorFlow Julia Ferraioli, Amy Unruh, Eli Bixby Intermediate
04:40PM									

MAY 29, 2016

	B110-111	B112	B113	B114	B115	B116	B117	C120+121	C123+124
09:00AM	Introduction to Unit Testing in Python with Pytest Michael Tom-Wing, Christie Wilson Novice	Faster Python Programs - Measure, don't Guess Mike Müller Intermediate	Bayesian statistics made simple Allen Downey Intermediate	Data Carpentry: An Introduction to Python for Data Analysis and Visualization Tracy Teal Novice	Django 101 Kenneth Love Novice	Introduction to Docker and containers Jérôme Petazzoni Novice	Python by Immersion Stuart Williams Novice	Natural Language Processing with NLTK and Gensim Tony Ojeda, Benjamin Bengfort, Laura Lorenz Intermediate	Efficient Python for High-Performance Parallel Computing Mike McKerns Intermediate

	HOWTO Titus Brown, Luiz Irber Novice	Tracy Osborn Novice	Sarah Guido, Sean O'Connor Intermediate	Intermediate	Preparing Data Renee Chu Novice	Matt Harrison Novice	Trey Hunner Novice	Gyprí, Hynek Schlawack, Paul Kehrer Intermediate	Julia Ferraioli, Amy Unruh, Eli Bixby Intermediate
04:40PM									

MAY 29, 2016

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12:20PM	Lunch								
01:20PM	The Fellowship of the Data Sev Leonard Intermediate	Computational Geometry in Python Tyler Reddy Intermediate	Outside-In TDD Harry Percival Intermediate	PostgreSQL Proficiency for Python People Christophe Pettus Intermediate	Computational Statistics Allen Downey Intermediate	Python Epiphanies Stuart Williams Intermediate	Making an Impact with Python Natural Language Processing Tools Hobson Lane, Dan Fellin, Jeremy Robin Intermediate	Deploying and scaling applications with Docker, Swarm, and a tiny bit of Python magic Jérôme Petazzoni Intermediate	Descriptors and Metaclasses - Understanding and Using Python's More Advanced Features Mike Müller Experienced
04:40PM									
06:00PM	Opening Reception								
09:00PM									

Register Now! To sign up for these tutorials, proceed to the [registration](#) page and add them to your existing registration!

Tutorial Only Registration: After adding in your demographic information, please select the "TUTORIAL ONLY" registration category.

TALKS

Schedule / Talks

TALKS

PyCon 2016 is now complete — so, a huge thanks to the speakers, sponsors, volunteers, and attendees for such a great PyCon!

Talk and tutorial videos & slides:

- <https://www.youtube.com/c/PyCon2016>
- <https://speakerdeck.com/pycon2016>

This is the full schedule of talks for PyCon 2016. See also:

- [Full list of talks, with abstracts](#)
- [Overview of conference schedule](#)

MAY 30, 2016

	Oregon Ballroom 201-202	Oregon Ballroom 203-204	Portland Ballroom 251 & 258	Portland Ballroom 252-253	Portland Ballroom 254-255
08:00AM					Breakfast
09:00AM					Welcome to PyCon
09:30AM					Keynote — Lorena Barba
10:10AM					Break
10:50AM	Machete-mode debugging: Hacking your way out of a tight spot Ned Batchelder Intermediate 	File descriptors, Unix sockets and other POSIX wizardry Christian Heimes Intermediate 	Thinking In Coroutines Łukasz Langa Intermediate 	Seriously Strong Security on a Shoestring (CW) Kelsey Gilmore-Innis Intermediate 	Python as a configuration language Guillermo Pérez Novice 
11:30AM	Refactoring Python: Why and how	Pyjion: who doesn't want faster	A tale of concurrency through	When the going gets tough, get	Git: A Peek Under the Hood

11:30AM	Refactoring Python: Why and how to restructure your code Brett Slatkin Novice S	Pyjion: who doesn't want faster for free? Brett Cannon, Dino Viehland Experienced S	A tale of concurrency through creativity in Python: a deep dive into how gevent works. Kavya Joshi Intermediate S	When the going gets tough, get TUF going Ying Li, David Lawrence Novice S	Git: A Peek Under the Hood Clara Bennett Intermediate S	
12:10PM	Code Unto Others Nathaniel Manista, Augie Fackler Intermediate S	Here be Dragons - Writing Safe C Extensions Paul Ross Experienced S	Building a Quantitative Trading Strategy To Beat the S&P500 Karen Rubin Intermediate S	Designing secure systems with Object-Capabilities, Python, and Cap'n Proto Drew Fisher Intermediate S	Building An Interpreter In RPython Juozas Kaziukėnas Experienced S	
12:40PM	Lunch					
12:55PM	Lunch	Lunch	Lunch	Lunch	Lunch	
01:40PM	Usable Ops: How to make web infrastructure management easier. Kate Heddleston, Joyce Jang Novice S					
01:55PM	Awaken your home: Python and the Internet of Things Paulus Schoutsen Intermediate S	Networking without an OS Josh Triplett Novice S				
02:35PM	Keeping cool, using a Raspberry PI to create a networked temperature sensor Dwight Hubbard Novice S	The cobbler's children have no shoes, or building better tools for ourselves Alex Gaynor Intermediate S	Finding closure with closures Thomas Ballinger Intermediate S	Wrestling Python into LLVM Intermediate Representation Anna Herlihy Intermediate S	Postgres present and future Craig Kerstiens Intermediate S	
03:15PM	Laser Cutters, 3D Printers, and Python Giles Hall Novice S	Pythons in A Container - Lessons Learned Dockerizing Python Micro-Services Dorian Pula Intermediate S	The Life Cycle of a Python Class Mike Graham Experienced S	Memory Management in Python - The Basics Nina Zakharenko Novice S	Django 1.8/1.9 and PostgreSQL: An Ever-Closer Union Christophe Pettus Intermediate S	
03:45PM	Break					
04:00PM	Break					

03:45PM					
04:00PM	Break	Break		Break	
04:15PM	Break	Reinventing Django for the Real-Time Web Andrew Godwin Intermediate		Playing with Python Bytecode Scott Sanderson, Joe Jevnik Experienced	Break
04:30PM	A Beginner's Guide to Deep Learning Irene Chen Intermediate		To mock, or not to mock, that is the question Ana Balica Intermediate		Build a Better Hat Rack: All Contributions Welcome Katie McLaughlin Novice
05:10PM	Visual Diagnostics for More Informed Machine Learning: Within and Beyond Scikit-Learn Rebecca Bilbro Intermediate	Building Protocol Libraries The Right Way Cory Benfield Intermediate	Better Integration Testing with Cucumber Jay Goel Novice	Let's read code: the requests library Susan Tan Intermediate	Bake the Cookies, Wear the Dress: Connecting with Confidence in Authenticity Adrienne Lowe Novice
05:40PM	Lightning Talks				
06:40PM					

MAY 31, 2016

	Oregon Ballroom 201-202	Oregon Ballroom 203-204	Portland Ballroom 251 & 258	Portland Ballroom 252-253	Portland Ballroom 254-255
08:00AM			Breakfast		
08:30AM			Lightning Talks		
09:00AM			Python Language — Guido van Rossum		
09:40AM			Keynote — Parisa Tabriz		
10:20AM			Break		
10:50AM	Documentation-driven Development	Click A Picture To Write A Story	The New Mobile Web Services	Unit Tests, Cluster Tests, A	What Is and What Can Be An

10:50AM	Documentation-driven development - lessons from the Django Project Daniele Procida Novice S	Click: A Pleasure To Write, A Pleasure To Use Sebastian Vetter Intermediate S	The New Mobile Web: Service Worker, Push, and App Manifests Dan Callahan Intermediate S	Unit Tests, Cluster Tests: A Comparative Introduction Renee Chu Novice S	What Is and What Can Be: An Exploration from `type` to Metaclasses Dustin Ingram Intermediate S
11:30AM	Publish your code so others can use it in 5 easy steps Marko Samastur Novice S	xonsh Anthony Scopatz Intermediate S	HTTP/2 and Asynchronous APIs Davey Shafik Intermediate S	Better Testing With Less Code: Property Based Testing With Python Matt Bachmann Intermediate S	Python Typology Matthias Kramm Intermediate S
12:10PM	What You Need to Know About Open Source Licenses Felix Crux Novice S	How I built a power debugger out of the standard library and things I found on the internet Doug Hellmann Novice S	HTTP Can Do That? Sumana Harihareswara Novice S	Prototyping New APIs with Flask David Baumgold Intermediate S	Exception and error handling in Python 2 and Python 3 Alex Martelli Novice S
12:40PM	Lunch				
12:55PM	Lunch		Lunch	Lunch	Lunch
01:40PM	Putting 1 million new words into the dictionary Manuel Ebert Intermediate S		Lunch	Lunch	Lunch
01:55PM	Advanced DNS Services for Securing Your Application and Enhancing User Privacy Melinda Shore Intermediate S	Discovering the world of Python through music Ria Baldevia Novice S	Shipping Software To Users With Python Glyph Intermediate S	Build Serverless Realtime Data Pipelines with Python and AWS Lambda Mercedes Coyle Intermediate S	
02:35PM	Kalman Filters for non-rocket science Elizabeth Ramirez Intermediate S	When is it good to be bad? Web scraping and data analysis of NHL penalties Wendy Grus Novice S	IPython Notebook in Data Intensive Communities: Accelerating the process of Discovery Frances Haugen, Patrick Phelps Novice S	Reliably Distributing Compiled Modules Paul Kehrer Experienced S	Remote Calls != Local Calls: Graceful Degradation when Services Fail Daniel Riti Intermediate S
03:15PM	Statistics for Hackers Jake Vanderplas Novice	Trainspotting: real-time detection of a train's passing from video Chloe Mawer	From Developer to Manager Sean O'Connor Novice	Diving into the Wreck: a postmortem look at real-world performance	The Report Of Twisted's Death or: Why Twisted and Tornado Are Relevant In The Asyncio Age

	S		S		S		S	
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03:45PM		Break			Break			
04:00PM	Break							
04:15PM		Get Instrumented: How Prometheus Can Unify Your Metrics Hynek Schlawack Novice S			Python Sorted Collections Grant Jenkins Intermediate S			
04:30PM	Structured Data from Unstructured Text Van Lindberg Intermediate S		The computer science of marking computer science assignments Katie Bell Experienced S			Why can't we be friends: do corporations and FOSS really mix? Lynn Root, Noa Resare Novice S		
05:10PM	Web Design for Non-Designers Tracy Osborn Novice S	A tale of two cellphones: Python on Android and iOS Russell Keith-Magee Intermediate S	Teaching Python: The Hard Parts Elana Hashman Intermediate S	Oneliner-izer: An Exercise in Constrained Coding Chelsea Voss Intermediate S		Dispelling the 'Genius Programmer' myth through code review Ashwini Oruganti Novice S		
05:40PM					Lightning Talks			
06:30PM					PyLadies Charity Auction			
09:00PM								

JUNE 1, 2016

	Oregon Ballroom 201-202	Oregon Ballroom 203-204	Portland Ballroom 251 & 258	Portland Ballroom 252-253	Portland Ballroom 254-255
08:00AM			Breakfast		

	Novice S	Russell Keith-Magee Intermediate S	Intermediate S	Chelsea Voss Intermediate S	review Ashwini Oruganti Novice S
05:40PM			Lightning Talks		
06:30PM			PyLadies Charity Auction		
09:00PM					

JUNE 1, 2016

	Oregon Ballroom 201-202	Oregon Ballroom 203-204	Portland Ballroom 251 & 258	Portland Ballroom 252-253	Portland Ballroom 254-255
08:00AM			Breakfast		
08:30AM			Lightning Talks		
09:00AM			Python Software Foundation — Van Lindberg		
09:20AM			Keynote — Cris Ewing		
10:00AM			Poster Session / Job Fair / Lunch — Expo Hall		
01:10PM	Magic Wormhole: Simple Secure File Transfer Brian Warner Intermediate S	Write an Excellent Programming Blog A. Jesse Jiryu Davis Novice S	Computational Physics with Python: Planetary Orbits from Newton to Feynman Pramod Gupta Novice S	See Python, See Python Go, Go Python Go Andrey Petrov Experienced S	More Than Binary: Inclusive Gender Collection and You Anne DeCusatis Novice S
01:50PM	Small Batch Artisanal Bots: Let's Make Friends Elizabeth Uselton Novice S	What can software engineers learn from the medical field? Laura Rupprecht Novice S	Python for Public Health: Building Statistical Models of Ciliary Motion Shannon Quinn Intermediate S	Accelerating healthcare transactions with Python and PyPy Brian Corbin Novice S	Antipatterns for Diversity Naomi Ceder Novice S
02:30PM	Revitalizing Python Game Development: Packaging, Sep Dehpour (Seperman)	User Research for Non-Researchers	Removing Python's GIL: The Gilectomy	Diff It To Dig It Sep Dehpour (Seperman)	Improving Learning Resources and Community for Deaf Sign

01:50PM	Small Batch Artisanal Bots: Let's Make Friends Elizabeth Uselton Novice S	What can software engineers learn from the medical field? Laura Rupprecht Novice S	Python for Public Health: Building Statistical Models of Ciliary Motion Shannon Quinn Intermediate S	Accelerating healthcare transactions with Python and PyPy Brian Corbin Novice S	Antipatterns for Diversity Naomi Ceder Novice S
02:30PM	Revitalizing Python Game Development: Packaging, Performance, and Platforms Jacob Kovac Intermediate S	User Research for Non-Researchers Jane Davis Novice S	Removing Python's GIL: The Gilectomy Larry Hastings Experienced S	Diff It To Dig It Sep Dehpour (Seperman) Novice S	Improving Learning Resources and Community for Deaf Sign Language Users through Deaf Awareness Sarah Jessica Leivers Novice S
03:10PM	Keynote — K Lars Lohn				
03:50PM	Final Remarks and Conference Close				
04:00PM					
04:10PM	Sprint Pitches				
04:30PM	"Introduction to Sprints" workshop — Oregon Ballroom 201-202				
06:00PM					



PyCon 2016 in Portland, OR is a production of the [Python Software Foundation](#).

36 x 3-hour tutorials
96 x 30 min talks

156 hours

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3 releases

32 contributors

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logston committed on GitHub Merge pull request #116 from theianrobertson/pydata-dc ... Latest commit 9d2feb0 17 hours ago

.schemas	Move to pyvideo	3 months ago
.tests	adding pygments==2.1 to tests requirements.txt	a month ago
bostonpy	reserialize all files (new style)	2 months ago
chicago-djangonauts	reserialize all files (new style)	2 months ago
chipy	reserialize all files (new style)	2 months ago
data-school	add newline to the end of each file	18 days ago
depy2015	reserialize all files (new style)	2 months ago
depy2016	reserialize all files (new style)	2 months ago
django-birthday	reserialize all files (new style)	2 months ago
djangocon-2009	reserialize all files (new style)	2 months ago
djangocon-2010	reserialize all files (new style)	2 months ago

26 lines (25 sloc) | 1.04 KB

Raw Blame History   

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23         }
24     ]
25 }
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Thank you!

questions?

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