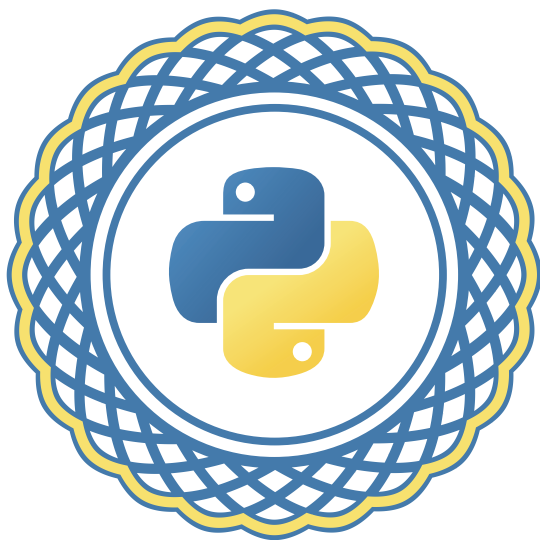# PYCON 2017
Slovakia

10-12 March 2017   Bratislava, Slovakia

SPY O. Z.

The mission of the SPy civic association is to support developers and users of the Python programming language. We support and we spread the programming language Python and other open source technologies and open source ideas in our society.

Our goal is to provide help and support for beginners and people who are new to programming. Another goal is to work with schools and other educational institutions, and promote programming (independent of the programming language) in children and young people from the earliest age.

We support the area of software development in socially vulnerable or otherwise disadvantaged social groups. We are dedicated to practical use of software development. We want to work on various open source projects, to create open educational content for use in schools as well as self-study and advocate for the use of open technologies in society and the public sector.

PyCon SK 2017 Organizational Team

Richard Kellner
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Ján Gondoľ
Michal Nalevanko
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EDITORIAL

"So, you're organizing a conference, which debuted last year, and you've already sold out half thousand tickets for this year? Wow! That sounds like a miracle. I had no idea so many people are into coding."

I was slurping cappuccino in a dimly lit coffee-house, chosen by a friend, a seasoned PR pro. He has been involved in a number of events during his career and I wanted to glean some thoughts and inspiration from his experience. As it turned out, he had more questions for me than I initially wanted to ask him.

His amazement left me wondering. Is it really so hard to identify something you truly enjoy, find a community of like-minded people and have a fun? Because that is exactly what we, the PyCon SK organizers, do when we think of Python meetups (or this conference). Most of us would be tempted to say that what other people tend to label as a miracle is often a result of intellectual curiosity, enjoyment and an open mind.

Furthermore, does everyone really have to be "into coding" to enjoy the beauty of Python? Years ago, when I saw a Python script for the very first time, I thought it was a kind of computer pseudo code, a programming language designed to be very readable even for a complete noob. Later, when my laziness to do a bunch of statistical calculations in a spreadsheet hit a plateau, Python made my day. Perhaps data analysis is not your cup of tea. You might be more interested in robotics, web development, machine learning, or ... Just name it. Python could come in handy in pretty much any field.

In addition, there is something more that you will not find in any textbook or programming tutorial. It is the community of people who are just like you - Python fans or even true Python enthusiasts. By coming to PyCon SK, you are becoming a part of this community. We have worked hard to line up a diverse group of speakers from all around the world to ensure a wide range of topics to choose from.

We are very happy to have you here. Welcome and enjoy PyCon SK 2017!

Michal Nalevanko
SPy, o.z., PyCon SK organizer

CODE OF CONDUCT

The Python community is made up of members from around the globe with a diverse set of skills, personalities, and experiences. It is through these differences that our community experiences great successes and continued growth. When you're working with members of the community, we encourage you to follow these guidelines which help steer our interactions and strive to keep Python a positive, successful, and growing community.

A member of the Python community is:

OPEN

Members of the community are open to collaboration, whether it's on PEPs, patches, problems, or otherwise. We're receptive to constructive comments and criticism, as the experiences and skill sets of other members contribute to the whole of our efforts. We're accepting of all who wish to take part in our activities, fostering an environment where anyone can participate and can make a difference.

CONSIDERATE

Members of the community are considerate of their peers – other Python users. We're thoughtful when addressing the efforts of others, keeping in mind that often times the labor was completed simply for the good of the community. We're attentive in our communications, whether in person or online, and we're tactful when approaching differing views.

RESPECTFUL

Members of the community are respectful. We're respectful of others, their positions, their skills, their commitments, and their efforts. We're respectful of the volunteer efforts that permeate the Python community. We're respectful of the processes set forth in the community, and we work within them. When we disagree, we are courteous in raising our issues.

Overall, we're good to each other. We contribute to this community not because we have to, but because we want to. If we remember that, these guidelines will come naturally.

Participants of PyCon SK fully identify with the Code of Conduct of the Python community. We create an environment, which is open to everyone, regardless of sex, sexual orientation, race, education or religion. All communication should be respectful and professional. We will be tolerant to each other.
We do not offend or vilify other members. We behave professionally. Harassment, sexist, racist or otherwise demeaning jokes are improper at our meetings. We will not tolerate any harassment of participants of meetups in any form.

PHOTOGRAPHY POLICY

Plenty of people love to take pictures, share them or be in them. However, be aware that not everyone wants to be photographed.

If you see someone wearing a red sticker, this person does not wish to be photographed. Please do not ask or persuade them. If you find someone with such sticker in one of your photos, it would be nice if you do not share it and remove it from your collection.

We assume that a person not wearing a red sticker does not mind to be photographed.

PYCONSK AT SOCIAL MEDIA

Official hash tag for social media is #PyConSK

Social media posts with this hash tag automatically enter a lottery. If you want to win attractive prizes, do not forget to use it!

STAY CONNECTED

wifi SSID: PyConSK
password: FIITpyconsk2017

DON'T SUPPRESS YOUR CURIOSITY

Thanks to sli.do we all have a unique possibility to satisfy our curiosity. Anyone in the audience can ask questions via a web application and vote for the best ones.

• Use our unique code #PyConSK to join the discussion and ask questions.
• Ask a question, anonymously or using your name.
• You can vote up the questions you like the most.
• The best questions will be read aloud so the speaker can answer.

Visit URL https://www.sli.do and use our unique code #PyConSK.

FEEDBACK IS WELCOME

Organizing any event for many people is not an easy task. We do our best to ensure all the participants are satisfied and happy but sometimes we can unintentionally neglect some of your requirements. In case you would like to send us suggestions how to make the conference better, or you want to share your experience, or you simply want to let us know what you liked or you did not like, please send as feedback: feedback@pycon.sk.

If you want to help us to improve the conference we will love to hear from you. Your feedback is very valuable for us and we tried to make it as easy as possible for you. We have prepared a form where you can leave a note or suggestions for future of Pycon SK. The form can be found at https://goo.gl/okZS5F or you can simply scan the QR code below.

By simply including your contact details in the form you will get a chance to win a Raspberry Pi 3 in our lottery.

TIMETABLE
Friday: The Slovak Day

Track 1 — Large auditorium (−1.61)

8:00 Registration

8:45 Conference opening (SK, 10 min)

9:00 Closures in Python, Slavomír Hudák (SK, 30 min)

9:30 Alternatívne spôsoby ako spúšťať testy a vyhodnocovať ich výsledky, Tibor Arpáš (SK, 30 min)

10:10 Spracovanie textu a Machine Learning v Pythone, Vladimir Boza (SK, 30 min)

11:05 Open Data - Introduction, Status in Slovakia And Role of Python, Peter Hanečák (SK, 30 min)

11:45 Data Science & Data Visualization in Python. How to Harness Power of Python for Public Good?, Radovan Kavický (SK, 30 min)

13:15 slovensko.digital, Ján Suchal (SK, 30 min)

13:55 Make sudo pip Safe Again, Michal Cyprian (SK, 30 min)

14:35 ctypes tutorial, Matúš Valo (SK, 30 min)

15:20 MicroPython & TREZOR, Pavol Rusnak (SK, 30 min)

16:00 Ako môže AI v Pythone pomôcť firme rásť, Jožo Kováč (SK, 30 min)

16:40 Keynote, (SK, 30 min)

17:15 Lightning Talks

Track 2: "EduTrack" — Small auditorium (−1.60)

9:00 Prečo učiť Python, Andrej Blaho (SK, 60 min)

10:10 Programovanie v škole: Primerané, udržateľné, rešpektované a integrované. Platí či neplatí?, Ivan Kalaš (SK, 45 min)

11:05 Základy programovania v jazyku Python pomocou korytnačej grafiky, Eva Mészárosová (SK, 30 min)

11:45 Skúsenosti s vyučovaním programovania v jazyku Python na strednej škole, Jaroslav Výbošťok (SK, 30 min)

13:15 Grafika v Jupyter notebookoch a vplyv programovacích prostriedkov na dušu študenta i učiteľa, Michal Kaukič (SK, 30 min)

13:55 Programujeme v Pythone, Peter Kučera (SK, 30 min)

14:35 Jazyk Python v programátorskej súťaži PALMA junior, Ľubomír Šnajder, Ján Guniš (SK, 30 min)

15:20 Zážitkové vyučovanie programovania na strednej škole, Zuzana Tkáčová (SK, 30 min)

16:00 Ako funguje evolúcia?, Anino Belan (SK, 30 min)

Saturday: Worshops

Workshops 1   Turing Lecture Hall (−1.58)

9:00 Introduction to Game Development with SDL2 and OpenGL
Ladislav Dobrovsky

11:15 Machine Learning with Text In Scikit-learn
Peter Zvirinský

14:10 Data Wrangling with Python
Katharine Jarmul

Workshops2: "Hardware Workshops"   Babbage Lecture Hall (−1.57)

9:00 MicroPython on NodeMCU
Marek Mansell

11:15 Using GPIO to blink LED diods
Michal Toman

14:10 Programming for 6 years old kids
Miroslav Suchý

Saturday: The English Day

Track 1 — Large auditorium (−1.61)

- 8:00 Registration
- 8:45 Conference opening (SK, 10 min)
- 9:00 What Makes Silicon Valley Software Developers Special, Pavel Serbajlo (EN, 30 min)
- 9:40 Making Monitoring Boring, Michal Hanula (EN, 30 min)
- 10:20 Building Data Pipelines with Python, Katharine Jarmul (EN, 45 min)
- 11:15 End-to-End Encryption of Distributed Applications, Jeff Lambert (EN, 30 min)
- 11:55 Our Journey from Developers to Real Software Engineers, Jozef Képesi (EN, 30 min)
- 13:30 Keynote, Rachel Willmer (EN, 30 min)
- 14:10 Connecting the pieces: breathing life into digital collections, Philo van Kemenade (EN, 30 min)
- 14:50 From Code to Community, Anton Caceres (EN, 30 min)
- 15:35 Scrum sucks!, Martin Strýček (EN, 30 min)
- 16:15 Through Python to Stars!, Juan Luis Cano Rodríguez (EN, 30 min)
- 17:00 Keynote, Adrian Holovaty (EN, 30 min)
- 17:35 Lightning Talks

Track 2 — Small auditorium (−1.60)

- 9:00 From Zero to Hero: Cool and Insipiring Programming Classes, Valdemar Švábenský (EN, 30 min)
- 9:40 Automation with Ansible and Containers, Rodolfo Carvalho (EN, 30 min)
- 10:20 Writing Code Analysis the Easy Way - Indulge in the coala!, Lasse Schuirmann (EN, 45 min)
- 11:15 Selinon - A Dynamic Distributed Task Computing with Python, Fridolín Pokorný (EN, 30 min)
- 11:55 The Balance of Python, Petr Viktorin (CZ, 30 min)
- 14:10 Python Using Redis - what kicked our asses?, Honza Grec (EN, 30 min)
- 14:50 You Should Contribute to Open Source, Michal Petrucha (EN, 30 min)
- 15:35 From Open Source to Your Dream Job, Razvan Chitu (EN, 30 min)
- 16:15 Topic Modelling with Gensim, Bhargav Srinivasa Desikan (EN, 30 min)

Sunday

Sprints   Turing Lecture Hall (−1.58)

9:00 Code Analysis with Coala Sprint
     Lasse Schuirmann
     (9:00 - 15:30)

If you want to have a sprint on your project, talk to the organizers (or email: info@pycon.sk) and feel free to sign up to lightning talks to announce it.

Django Girls   Babbage Lecture Hall (−1.57)

9:00 Django Girls
     Mentors: Alexka Nyitraiová, Andrej Skok, Honza Silhan, Juraj Machac, Martina Bedakovic, Martin Jahn, Martin Strapko, Michal Belica @beli_sk, Miroslav Bagljaš, Ondřej Sika @ondrejsika, Petr Kotas, Petr Viktorin @EnCuKou, Roman Pavelka, Tomas Trungel, Veronika Svecova
     (9:00-18:00)

A word about lightning talks

A lightning talk has only one rule: 5 minutes and stop.

Want to give a talk, but do not have enough material for a full talk? Have a shout-out for an open source project or tool? Want to share a community story (everyone loves stories!)? Preach the must-know fundamentals of virtualenv, PyPI, import this, etc? Then lightning talks are for you!
These talks are, at max, 5 minute talks done in quick succession in the main hall. No need to fill the whole slot, though!
Lightning talks are low stress, tons of fun, and are rumoured to have originated at one of the very first PyCons years ago. (https://us.pycon.org/2014/speaking/cfp/)

Sunday: The Mixed Day

Track 1 — Large auditorium (−1.61)

8:45 Conference opening (EN,10 min)

9:00 Red Hat - How to Build Diverse and Entertaining Open Source Corporate Culture, Jana Gutierrez Chvalkovská (EN, 30 min)

9:40 How Far Can You Go with Python, jakub Balas (EN, 30 min)

10:20 Object Calisthenics - 9 steps to better code, Pawel Lewtak (EN, 30 min)

11:00 Let's Solve Cardiac Diseases Together: Python Meets Medical Imaging and Machine Learning, Jan Margeta (EN, 30 min)

11:40 Discovering Related Content with Python, Yian Shang (EN, 30 min)

13:10 A Documentation Crash Course for Developers, Chris Ward (EN, 45 min)

14:05 Custom Python Libraries for Robot Framework, Miroslav Beka (EN, 30 min)

14:50 Jupyter: If You Don't Use It, You're Doing Wrong, Christian Barra (EN, 30 min)

15:30 Because Web API Testing Should Be Easy, Honza Javorek (EN, 30 min)

Track 2 — Small auditorium (−1.60)

9:40 Je azda Mathlab lepší ako had?, Michaela Gulášová (SK, 30 min)

10:20 Mozilla ♥ Python, Michal Vašíček (CZ, 30 min)

11:00 Sentiment Analysis of Customer Comments, Tibor Zavadil (SK, 30 min)

11:40 The machine's search for Meaning, Peter Fedoročko (SK, 30 min)

13:10 Automating Network Equipment with Python, Elisa Jasinska (EN, 45 min)

14:05 Teaching Python to (Your) Children, Horst Jens (EN, 30 min)

14:50 How to build up a Python Community and Empower Women, Kristi Progri, Jona Azizaj (EN, 30 min)

15:30 Crash test of Django ORM, Andril Soldatenko (EN, 30 min)

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Exponea

The marketing cloud to deliver one-on-one customer experience in days

Exponea helps e-commerce businesses harness the value of collecting, analysing, and acting upon customer data. Our marketing cloud platform is used by companies on 5 continents. Our development team is based in Bratislava, where we work with technologies such as Python 3, C++, Apache Spark, Hadoop, MongoDB, ElasticSearch, Angular 2, and our proprietary in-memory database called BlinkBytes.

Kiwi.com

An online travel agency with groundbreaking technology and exceptional customer service

Kiwi.com is an online travel agency with groundbreaking Virtual Interlining technology and a focus on exceptional customer service. Our unique combination algorithm allows our customers to combine flights from non-cooperating airlines onto a single itinerary, often resulting in significant savings.

Python Software Foundation

A nonprofit for promoting Python Programming Languge

The Python Software Foundation is a nonprofit dedicated to advancing and promoting Python. The PSF supports and encourages Python events world-wide to advance its mission of growing the international community of Python programmers, and hosts the North American PyCon conference as its flagship annual event.

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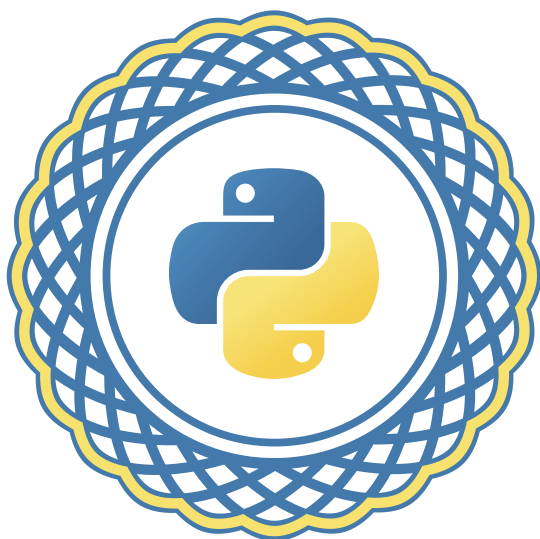# DJANGO GIRLS SPONSORS

MEDIA PARTNERS

THANK YOU

It is hard if not impossible to list all who have helped to make this exciting event happen. However, we would like to try.

Thanks are due to:
· Andrej Kiska, President of the Slovak Republic.
· Our generous sponsors, supporters and partners, without their support this conference would not be possible.
· All who contributed to the program - especially speakers and workshop mentors
· All conference volunteers.
· All contributors to django-konfera: https://github.com/pyconsk/django-konfera/
· All participants for buying a ticket and contributing to this great community.

www.pycon.sk