

*pyladies*

&

**< READY  
TO CODE >**

A group of young people, likely students, are gathered in a classroom or workshop. A woman with glasses is in the foreground, looking down at a laptop. Several other students are standing behind her, some looking at the laptop and others looking towards the camera. The image has a teal overlay. The text "Herzlich willkommen!" is written in white, bold, sans-serif font across the center.

**Herzlich willkommen!**

# Weiterführung ? ... sehr gerne!

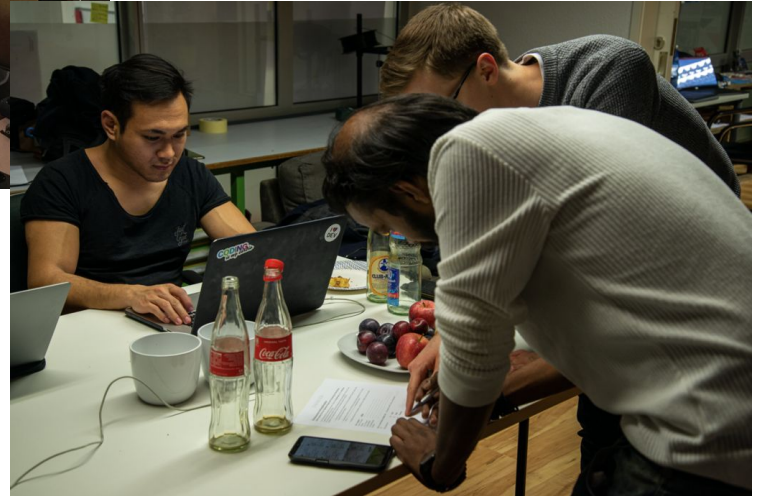
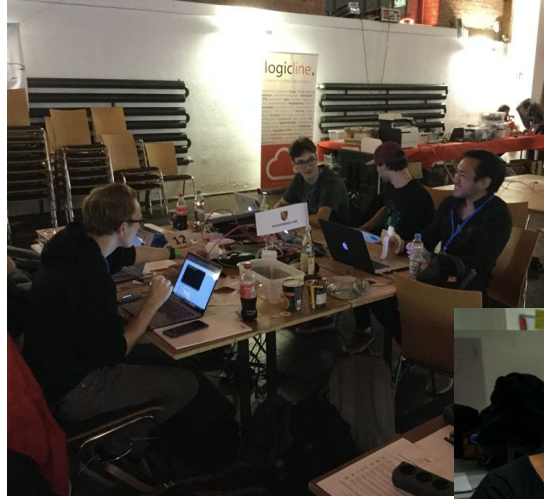
*Kooperation zwischen Ready to Code und PyLadies Stuttgart*

**Feedback sehr erwünscht !!!**

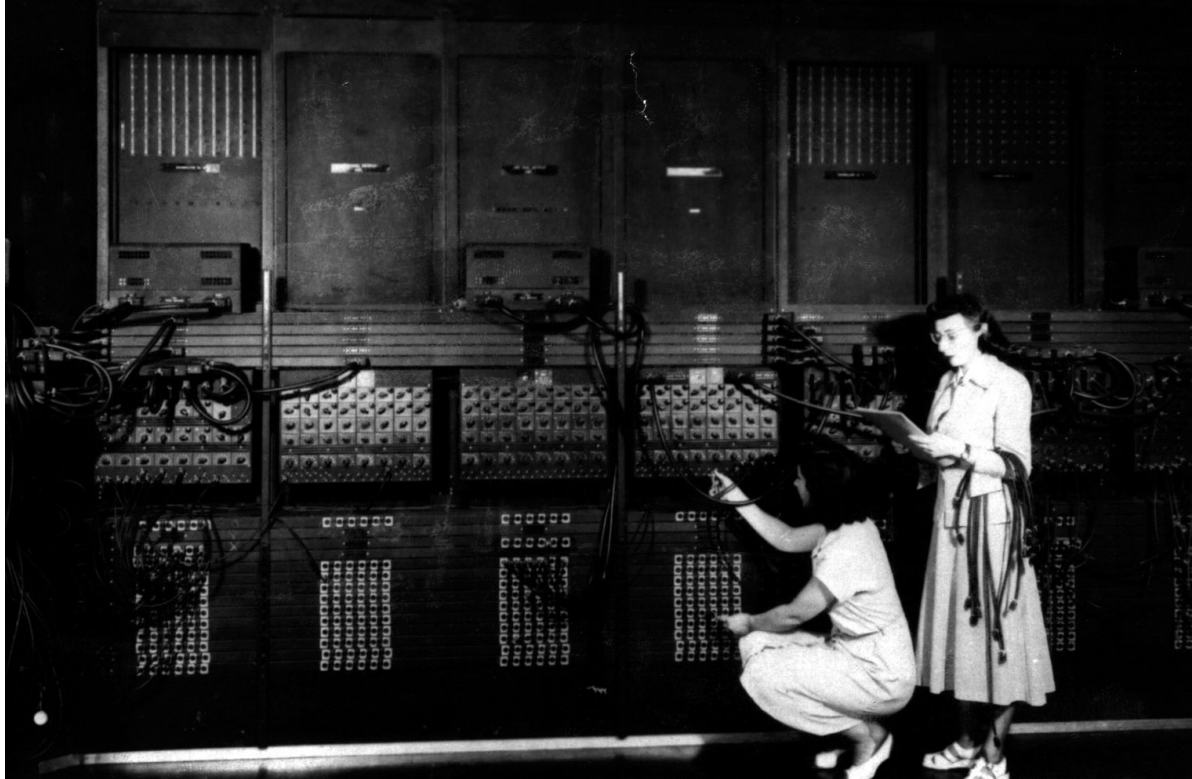
Erster Python-Workshop für Frauen => ehrliches Feedback

**KEEP LEARNING: Regelmäßige Teilnahme und eigene Projekte realisieren**

# Frauen in der Informatik ...



# Was viele nicht wissen ...



# Ready to Code & PyLadies

- **Ready to Code** ist ein **gemeinnütziger Verein**, der sich seit 2018 in Stuttgart für **mehr Mädchen\* und Frauen\* in der IT** einsetzt.
- Wir veranstalten Programmierkurse, Workshops, Meetups, Hackathons und geben Talks, meist für ein rein weibliches Publikum.
- **PyLadies** ist ein **weltweites Netzwerk** zur Verbreitung von **Python bei Frauen**.
- PyLadies ist unsere erste **Python-Workshop-Reihe für Frauen\*** und wir freuen uns sehr darauf, euch die wundervolle Sprache Python beizubringen!



# Wer sind wir?



Tin Votan, Workshopleiter,  
in Discord: **Tin**



Efstratia Tramountani, Q&A,  
in Discord: **Effi**



Anna-Katrin Winkler, Orga,  
in Discord: **Anna**

# Workshopleiter



**Tin Votan** (28, Dresden)

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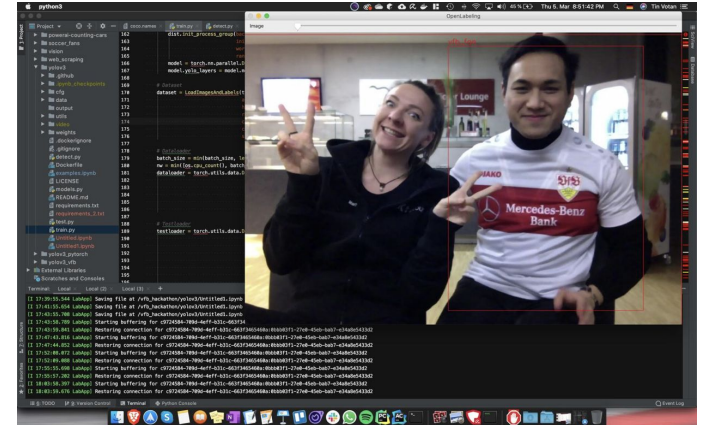
Unternehmer, Softwareentwickler,  
AWS ML Specialist / Engineer

Wirtschaftsingenieurwesen, M.Sc.

Dozent an der DHBW Stuttgart & Festo  
Didactic



# Workshopleiter

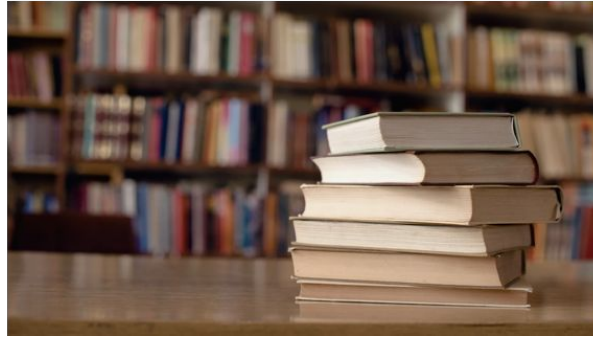
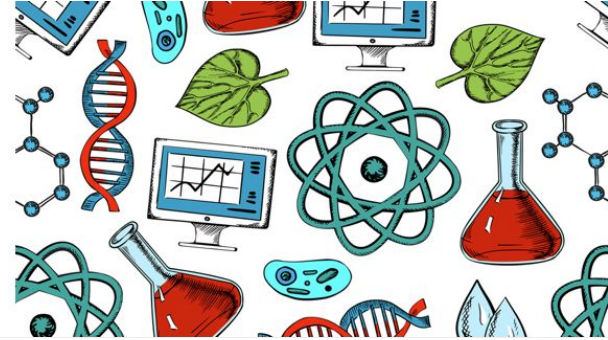


# Workshopleiter



CyberValley

# Workshopleiter



# Tools

## **Kommunikation**

Discord

## **Planung**

Meetup

## **Code**

GitHub

## **Stream**

Twitch.tv

## **Videos**

Youtube

# Software

<b>Python</b>	Programmiersprache
<b>Git &amp; GitHub</b>	Versionsverwaltung
<b>Visual Studio Code</b>	IDE
<b>Discord</b>	Kommunikation
<b>Twitch.tv</b>	Stream
<b>Chrome Browser</b>	Web-Browser



# Wenn ihr noch nicht genug habt...

Ready to Code findet ihr auf:

- Instagram: <https://www.instagram.com/readytocode/>
- Facebook: <https://www.facebook.com/readytocode.org/>
- Webseite: <https://readytocode.org/>
- E-Mail: [hello@readytocode.org](mailto:hello@readytocode.org)

## UPCOMING

=> [www.pyladies-stuttgart.com](http://www.pyladies-stuttgart.com)

A group of young people, likely students, are gathered around a table in a classroom or workshop setting. A woman with glasses is leaning over a laptop, while several other students look on. The entire image is covered with a semi-transparent teal filter. The word "Python" is centered in white text.

# Python

# Warum Python?

hohe Programmiersprache

leicht zu erlernen

hohe Nachfrage (Jobs)

plattformunabhängig

kostenlos

viele Libraries /  
Open-Source-Projekte

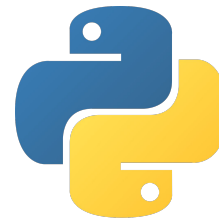
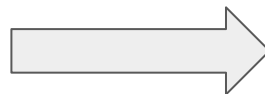
große Community

viele Anwendungsfälle

branchenübergreifend

regelmäßige Updates

# Wer verwendet alles Python?



<https://www.blueshoe.de/de/blueshoe-blog/python-oder-php/> (Aufruf: 14.12.2019)  
<https://labs.spotify.com/2013/03/20/how-we-use-python-at-spotify/>  
<https://www.tumblr.com/privacy/consent?redirect=http%3A%2F%2Finstagram-engineering.tumblr.com%2Fpost%2F13649370142%2Fwhat-powers-instagram-hundreds-of-instances>

# Wo ist Python im Einsatz?

## Wissenschaft

**Data Visualisation**

**Data Science**

**Artificial Intelligence**

**App Development**

**Web Development**

**Database Management**

**REST API**

**Games**



**Data Analytics**

**Big Data**

**Workflow Automation**

**Ethical Hacking**

**Documentation**

**Cloud Computing**

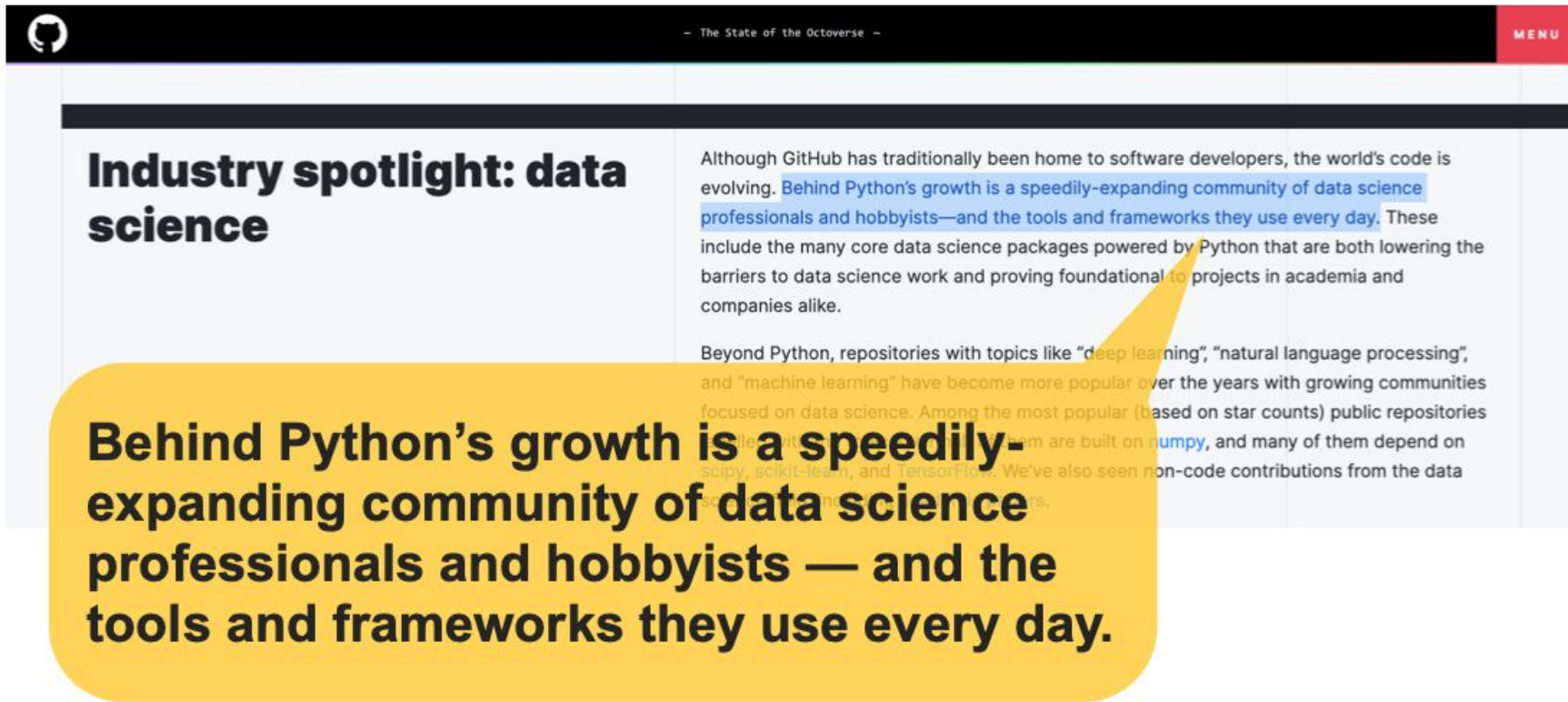
**CMS**

**Embedded Systems**

## Industrie



# Python in Data Science



The image is a screenshot of the GitHub Octoverse 2019 report. At the top, there is a black header with the GitHub logo on the left, the text '- The State of the Octoverse -' in the center, and a red 'MENU' button on the right. Below the header, the main content area has a light gray background. On the left side of this area, there is a section titled 'Industry spotlight: data science' in bold black text. To the right of this title, there is a paragraph of text. A yellow callout box with rounded corners is overlaid on the right side of the page, containing a bold black text snippet that highlights a key finding from the report. The text in the callout box is: 'Behind Python's growth is a speedily-expanding community of data science professionals and hobbyists — and the tools and frameworks they use every day.' The text in the background paragraph is: 'Although GitHub has traditionally been home to software developers, the world's code is evolving. Behind Python's growth is a speedily-expanding community of data science professionals and hobbyists—and the tools and frameworks they use every day. These include the many core data science packages powered by Python that are both lowering the barriers to data science work and proving foundational to projects in academia and companies alike. Beyond Python, repositories with topics like "deep learning", "natural language processing", and "machine learning" have become more popular over the years with growing communities focused on data science. Among the most popular (based on star counts) public repositories are built on numpy, and many of them depend on scipy, scikit-learn, and TensorFlow. We've also seen non-code contributions from the data science community.'

**Industry spotlight: data science**

Although GitHub has traditionally been home to software developers, the world's code is evolving. Behind Python's growth is a speedily-expanding community of data science professionals and hobbyists—and the tools and frameworks they use every day. These include the many core data science packages powered by Python that are both lowering the barriers to data science work and proving foundational to projects in academia and companies alike.

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**Behind Python's growth is a speedily-expanding community of data science professionals and hobbyists — and the tools and frameworks they use every day.**

# Python in Data Science

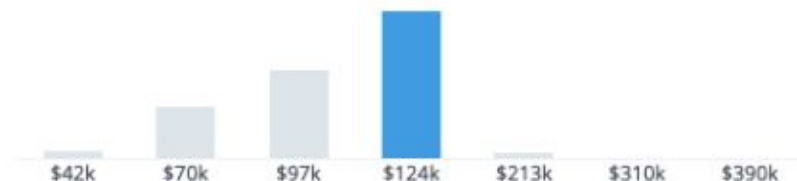
[Companies](#)[Salaries](#)[Jobs](#)[News](#)[Awards](#)[Q Search...](#)[For Employers](#)[Login](#)[Sign Up](#)[Home](#) › [Companies](#) › [Google](#) › [Salaries](#) › [Data Scientist](#)[HR or Marketing?](#) [Claim Your Free Employer Account](#)

## Google Data Scientist Salary

The average Google Data Scientist earns \$169,067 annually, which includes a base salary of \$139,650 with a \$29,417 bonus. This total compensation is \$40,231 more than the US average for a Data Scientist. Data Scientist salaries at Google can range from \$120,000 - \$280,000 with equity ranging from 0-150K+.

The Engineering Department at Google earns \$3,242 more on average than the IT Department. Comparably data has a total of 16 salary records from Google Data Scientists.

Last updated 17 hours ago.



**\$169,067**  
Average Compensation

<b>\$139,650</b>	avg. base
<b>\$29,417</b>	avg. bonus
<b>0-150K+</b>	equity range

# Der Python-Trend

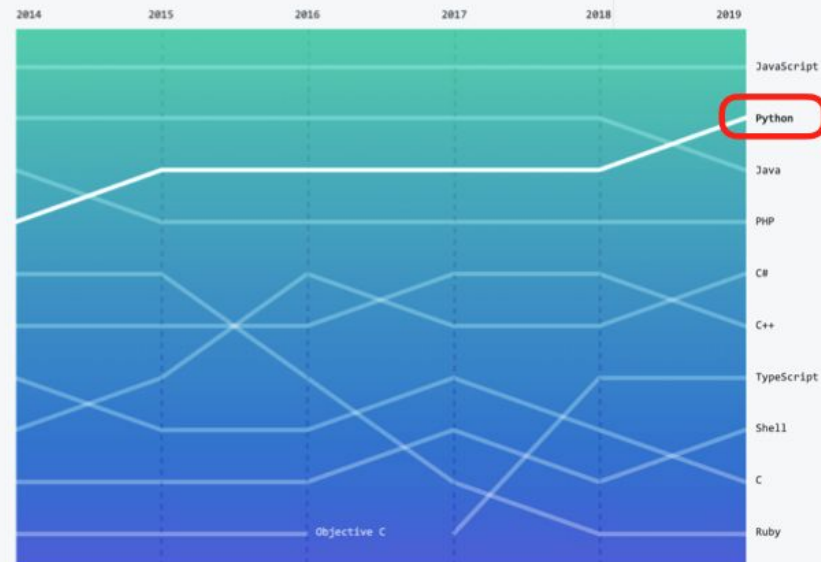
## Top languages

### Top languages over time

This year, C# and Shell climbed the list. And for the first time, Python outranked Java as the second most popular language on GitHub by repository contributors.\*



In the last year, developers collaborated in more than 370 primary languages on GitHub.



<https://octoverse.github.com/> (Aufruf: 13.12.2019)

[https://info.hackerrank.com/rs/487-WAY-049/images/HackerRank\\_2019-2018\\_Developer-Skills-Report.pdf](https://info.hackerrank.com/rs/487-WAY-049/images/HackerRank_2019-2018_Developer-Skills-Report.pdf)

# Achtung !!! Python alleine reicht nicht aus ...

Container

Serverless

Hosting

Deployment

Cloud-Architektur

Version-Control

**JavaScript, HTML & CSS, Docker, ...**

# Lern-Ressourcen

## Buch

- Kalista, Heiko (2018): *Python 3 : Einsteigen und Durchstarten*, München: Hanser.

## Videos

- <https://www.freecodecamp.org/news/learn-python-basics-in-depth-video-course/>
- Youtube-Channel: freeCodeCamp.org

## Online-Tutorial

- <https://diveinto.org/python3/table-of-contents.html>

