

# Contributing to Airflow

**Your OSS adventure**



Hi!



## Jarek Potiuk

Independent Open-Source Contributor and advisor

PMC Member & Committer Apache Airflow

Member of the Apache Software Foundation



@jarekpotiuk



@potiuk



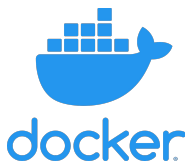
@jarekpotiuk



# Airflow



# Airflow is Orchestrator



# Airflow Community



## How Airflow community works

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- Airflow belongs to the Apache Software Foundation
  - Apache Way guidelines (principles)
  - Apache 2.0 license on the software
  - Community over Code
  - <https://s.apache.org/apache-way-for-everyone>
- Roles
  - Contributors - can be anyone
  - Committers - have to earn their rank by contributions
  - PMCs - have to earn their rank by committership



## How Airflow community works

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- Transparency
  - All important issues are discussed at **dev@airflow.apache.org**
  - Community makes all the important decisions (voting)
  - We can only implement what community agrees on as “good for it”

**The person doing the work guides the project - with feedback from the community.**

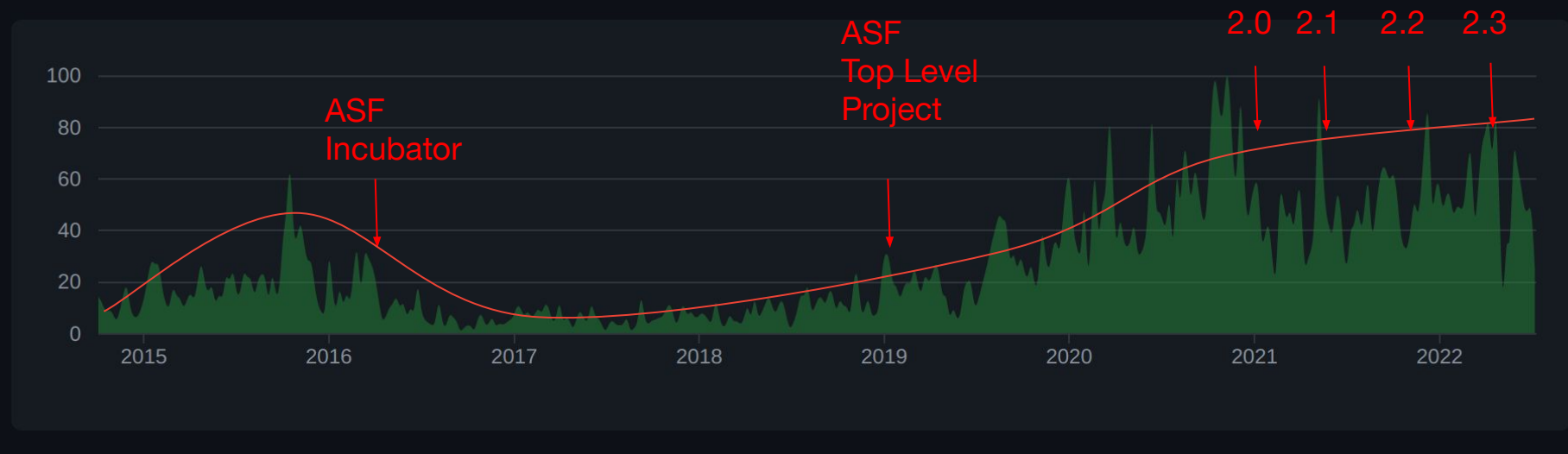


## Apache Airflow Commit Story

Oct 5, 2014 – Jul 13, 2022

Contributions: Commits ▾

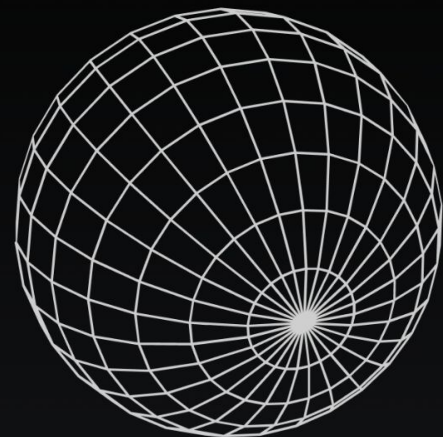
Contributions to main, excluding merge commits and bot accounts





# Onsite locations

- Amsterdam, Netherlands
- Bengaluru, India
- Lagos, Nigeria
- London, UK
- Melbourne, Australia
- New York City, USA
- Paris, France
- Sao Paulo, Brasil
- Seattle, USA
- Tel-Aviv, Israel
- Tokyo, Japan
- Warsaw, Poland



## Main players

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### Service providers

- Astronomer
- Google Cloud
- Amazon

Also

- Databricks
- Cloudera
- Qubole

### Consultants

- Software Houses
- Integrators
- Individuals
- ...

### Users

- AirBnB
- Twitter
- Uber
- Lyft
- Snowflake
- Wealthsimple
- Wixx
- 1000s of others

Check out [INTHEWILD.md](https://intthewild.md)



# Why should you Contribute ?



## Altruistic reasons to contribute

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- Give back to the community
- Share your experience/work with others
- There are nice people in the community
- Make the world a better place



## SELFISH reasons to contribute

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- You do not have to maintain your changes
- Your company might pay you if they have interest
- You learn from the best people from many OSS projects
- You have a chance to interact with very different people
- You can build your own personal recognition
- You can build your Open-Source career



# Communication



# Importance of communication

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- Devlist - dev@airflow.apache.org
  - If it did not happen on the devlist - it did not happen
- Github
  - [Discussions](#), PRs and Issues
- Airflow Improvement Proposals (AIPs) (<https://cwiki.apache.org/confluence/display/AIRFLOW/>)
- Slack - <https://apache-airflow-slack.herokuapp.com/>



# Non code contributions





## Non-code

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- Meetups organization
- Airflow Summit
- Blogs, Newsletter
- Design, website
- Issue reporting, troubleshooting, triage
- Evangelizing Airflow



# Code contributions



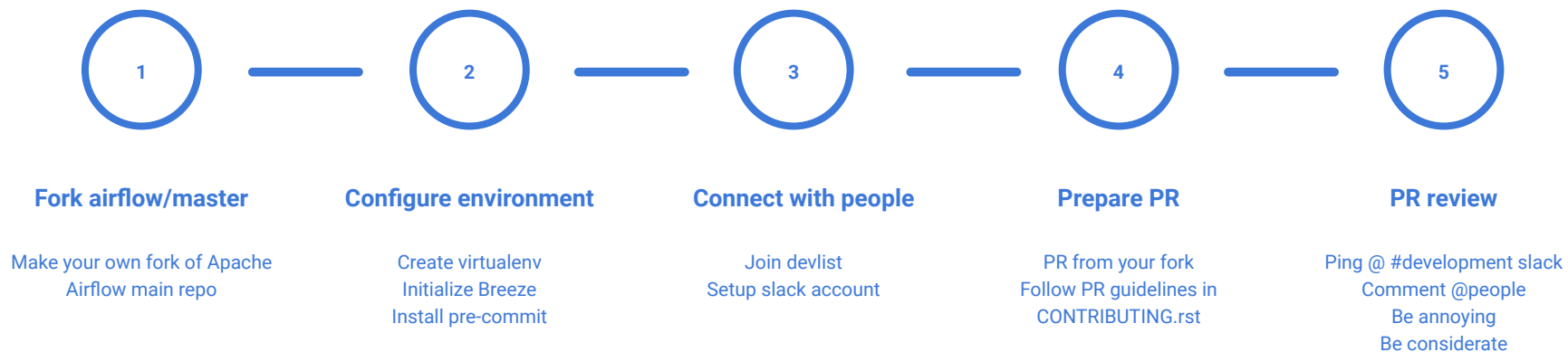
# Types of code contribution

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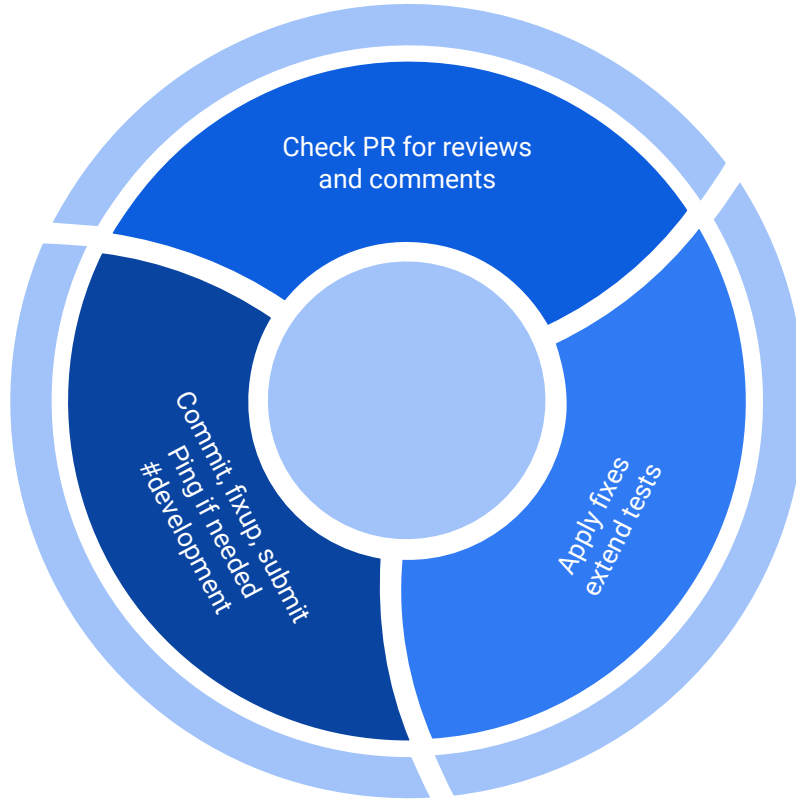
- The obvious ones
  - Implementing features
  - Bug-fixes
- Not that obvious
  - raising issues (well documented including reproduction steps)
  - issue clarifications
  - documentation changes
  - tooling (CI, development environment)



## Workflow to follow



## Review process



- No need for an issue to make PR
- Good description
- Be patient and persistent
- Be nice and friendly
- Accept critique
- Be open to applying changes
- Be empathetic
- Sometimes it might take weeks
- Difference of opinions sometimes



## Preparing to contribute

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- Contributing documentation:

<https://github.com/apache/airflow/blob/master/CONTRIBUTING.rst>

- Contributor's quick start

[https://github.com/apache/airflow/blob/master/CONTRIBUTORS\\_QUICK\\_START.rst](https://github.com/apache/airflow/blob/master/CONTRIBUTORS_QUICK_START.rst)

- First good issues

<https://github.com/apache/airflow/contribute>

- Documentation of the dev environments

[https://github.com/apache/airflow/blob/master/LOCAL\\_VIRTUALENV.rst](https://github.com/apache/airflow/blob/master/LOCAL_VIRTUALENV.rst)

<https://github.com/apache/airflow/blob/master/BREEZE.rst>



# How to get help



## Troubleshooting, discussions, asking for help

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- There is no single person that can help
- Different people have different experience
- Most active committers are not regular users (!)
- We rely on the users to test and help with problems
- The users and the community are the biggest asset of Airflow
- Slack and Github Discussions are great for troubleshooting





## Slack and troubleshooting

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- Slack: <https://apache-airflow-slack.herokuapp.com/>
- Ask any kind of questions
- Show that you've done your part
- Sometimes you need to ask several times
- People are helpful
- If you give help - you are more likely to get help
- You do not have to know who you should ask
- Most important channels:
  - #troubleshooting, #newbie-questions, #development



## How to get higher chance to get help?

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- Be present
  - Read the devlist messages
  - Be active in discussions
  - Help others
  - Be personal
- Raising issues
  - Show that you've done your part
  - Give maximum information you can
  - Ask nicely for help
  - Ping relevant people (cc: in issues @ in slack - it's OK if people's work is related)



# Thanks!

