

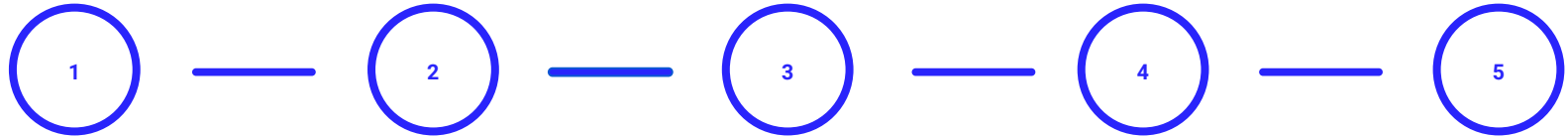
# It's a Breeze to Contribute to Airflow

First Time Apache Airflow Contributor's Workshop

# How to contribute

# How to contribute

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## Fork airflow/master

Make your own fork of Apache  
Airflow main repo

## Configure environment

Create virtualenv  
Initialize Breeze  
Install pre-commit  
Setup your own Travis CI

## Connect with community

Join devlist  
Setup slack account

## Prepare PR

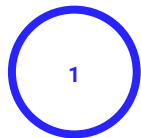
PR from your fork  
Follow PR guidelines in  
CONTRIBUTING.rst

## PR review

Ping @ #development slack  
Comment @people  
Be annoying  
Be considerate

# GitHub repository

## How to contribute

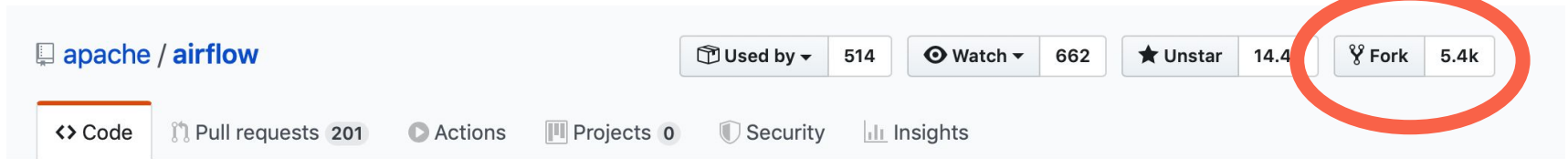


### Fork airflow/master

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## Fork apache/airflow

- Apache Airflow repository
  - <https://github.com/apache/airflow>
- How to fork
  - <https://help.github.com/en/github/getting-started-with-github/fork-a-repo>



The screenshot shows the GitHub repository page for 'apache / airflow'. The repository name is displayed as 'apache / airflow'. Below the name, there are several interactive buttons: 'Used by' (514), 'Watch' (662), 'Unstar' (14.4k), and 'Fork' (5.4k). The 'Fork' button is circled in red. Below these buttons, there are navigation tabs: '<> Code', 'Pull requests' (201), 'Actions', 'Projects' (0), 'Security', and 'Insights'.

Apache Airflow <https://airflow.apache.org>

airflow

# Development Environment

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## Dev environment

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- Contributing guide:
  - <https://github.com/apache/airflow/blob/master/CONTRIBUTING.rst>
- Environments:
  - LOCAL [https://github.com/apache/airflow/blob/master/LOCAL\\_VIRTUALENV.rst](https://github.com/apache/airflow/blob/master/LOCAL_VIRTUALENV.rst)
  - BREEZE <https://github.com/apache/airflow/blob/master/BREEZE.rst>
- Running tests:
  - <https://github.com/apache/airflow/blob/master/TESTING.rst>
- Statics checks and docs
  - [https://github.com/apache/airflow/blob/master/STATICK\\_CODE\\_CHECKS.rst](https://github.com/apache/airflow/blob/master/STATICK_CODE_CHECKS.rst)

**Connect with  
Community**

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## Communication etiquette

- Do not be afraid to ask questions
- We have deeply asynchronous communication - do not expect immediate answers, ping people if you are blocked
- We have #newbie-questions channel in slack as a safe place to ask questions
- You can ask one of the committers to be a mentor for you, they can guide within the community
- You can apply to more structured [Apache Mentoring Programme](#)
- It's your responsibility as an author to take your PR from start-to-end including leading communication in the PR
- It's your responsibility as an author to ping committers to review your PR - be mildly annoying sometimes, it's OK
- We have high-bar set for the code requirements - be considerate to those requirements
- If in doubt - ask community for their opinions and sometimes voting at the devlist
- Discussions should concern subject matters - judge or criticise the merit but never criticise people
- It's OK to express your own emotions while communicating - it helps other people to understand you
- Be considerate for feelings of others.

## Connect with people

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- **Slack:** ad-hoc discussions/ask questions/is anyone working on it?  
<https://apache-airflow-slack.herokuapp.com/>
- **DevList:** important topics
  - Developer's mailing list [dev-subscribe@airflow.apache.org](mailto:dev-subscribe@airflow.apache.org)
  - Airflow users mailing list: [users-subscribe@airflow.apache.org](mailto:users-subscribe@airflow.apache.org)
- Report issues on GitHub:
  - <https://github.com/apache/airflow/issues>
- More resources and links to Airflow related content on the Wiki  
<https://cwiki.apache.org/confluence/display/AIRFLOW/Airflow+Links>

# Pull Request

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## Prepare PR

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- Pull request guidelines  
<https://github.com/apache/airflow/blob/master/CONTRIBUTING.rst#pull-request-guidelines>
- Rebase your fork, squash commits, and resolve all conflicts.



# Review process

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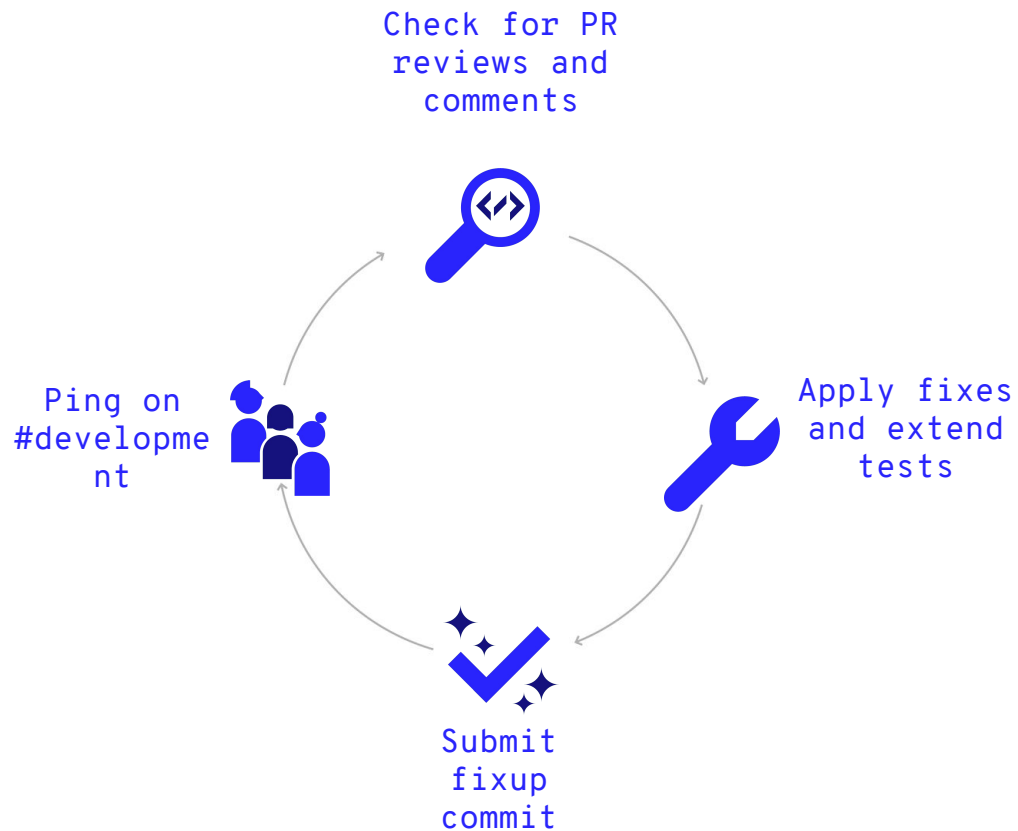
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# PR Review

- Be empathic
- Be annoying
- Be cooperative
- Be persistent
- Rebase often to master
- Rinse & repeat



# Example first issues

# First issues

Label “**good-first-issue**”

<https://github.com/apache/airflow/issues?q=is%3Aopen+is%3Aissue+label%3Agood-first-issue>

The screenshot shows the GitHub interface for Apache Airflow issues. The search bar contains the query 'is:open is:issue label:good-first-issue'. The results list several issues, each with a title, a 'good-first-issue' label, and other metadata like the author and opening time.

Issue ID	Title	Labels	Author	Opened
#8292	Bump supported mysqlclient to <1.5	good-first-issue, kind:feature	RosterIn	12 hours ago
#8285	Improve idempency in CloudDataTransferServiceCreateJobOperator	good-first-issue, kind:feature, provider:GCP	mik-laj	20 hours ago
#8284	Add support for Microsoft Azure Blob Storage in Google Cloud Storage Transfer Service operators	good-first-issue, kind:feature, provider:GCP	mik-laj	21 hours ago
#8283	Missing guide for SpannerDeployInstanceOperator	area:docs, good-first-issue, kind:feature, provider:GCP	mik-laj	21 hours ago
#8282	Missing crossreferences between hooks and guides	good-first-issue, kind:bug	mik-laj	21 hours ago
#8280	Missing example DAGs/system tests for Google services	good-first-issue, kind:bug, provider:GCP	mik-laj	23 hours ago
#8278	Missing unit tests for some modules in providers package	good-first-issue, kind:bug	mik-laj	23 hours ago
#8272	Cloud Life Sciences operator and hook	good-first-issue, kind:feature, provider:GCP	mik-laj	yesterday
#8271	Add Jira/Github Issue to "CONTIRUBTE.rst"	good-first-issue, kind:bug	mik-laj	yesterday

**Thanks!**