

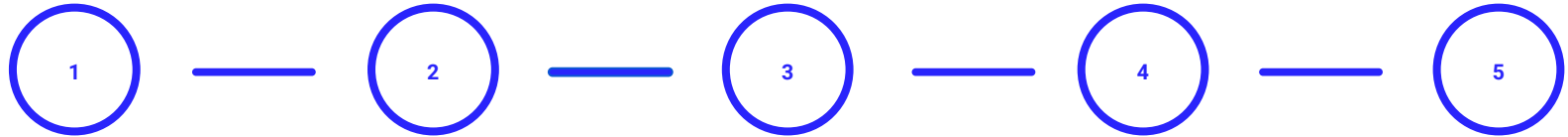
# It's a Breeze to Contribute to Airflow

First Time Apache Airflow Contributor's Workshop

# How to contribute

# How to contribute

---



## 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

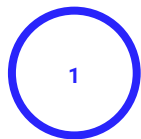
## PR review

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

# GitHub repository

## How to contribute

---

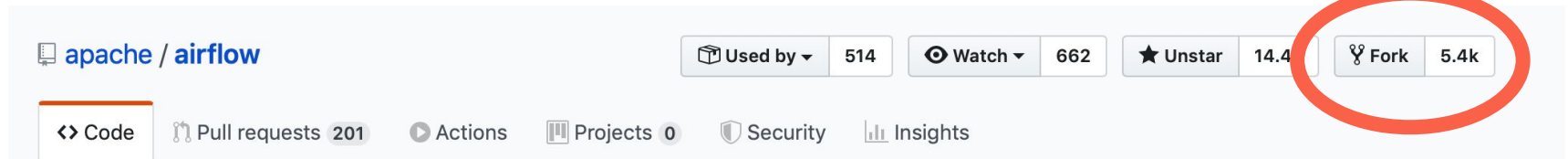


### Fork airflow/master

Make your own fork of Apache  
Airflow main repo

## 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

# How to contribute

---



## 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



## Dev environment

---

- 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**

# How to contribute

---



## 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

## Importance of communication



- **TODO : update after we agree wording**

## Connect with people

---

- **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 Apache Airflow Jira:  
<https://issues.apache.org/jira/browse/AIRFLOW>
- More resources and links to Airflow related content on the Wiki  
<https://cwiki.apache.org/confluence/display/AIRFLOW/Airflow+Links>

# Pull Request

# How to contribute

---



## 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

## Prepare PR

---

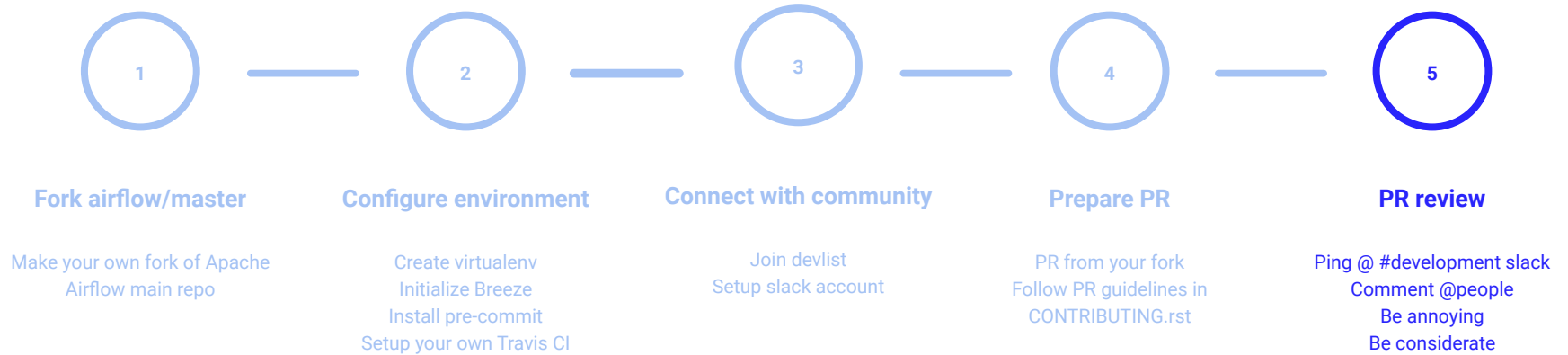
- Pull request guidelines  
<https://github.com/apache/airflow/blob/master/CONTRIBUTING.rst#pull-request-guidelines>
- Rebase your fork, squash commits, and resolve all conflicts.
- Preface your commit's subject & PR title with **[AIRFLOW-YYYY] COMMIT\_MSG** where YYYY is the JIRA number.



# Review process

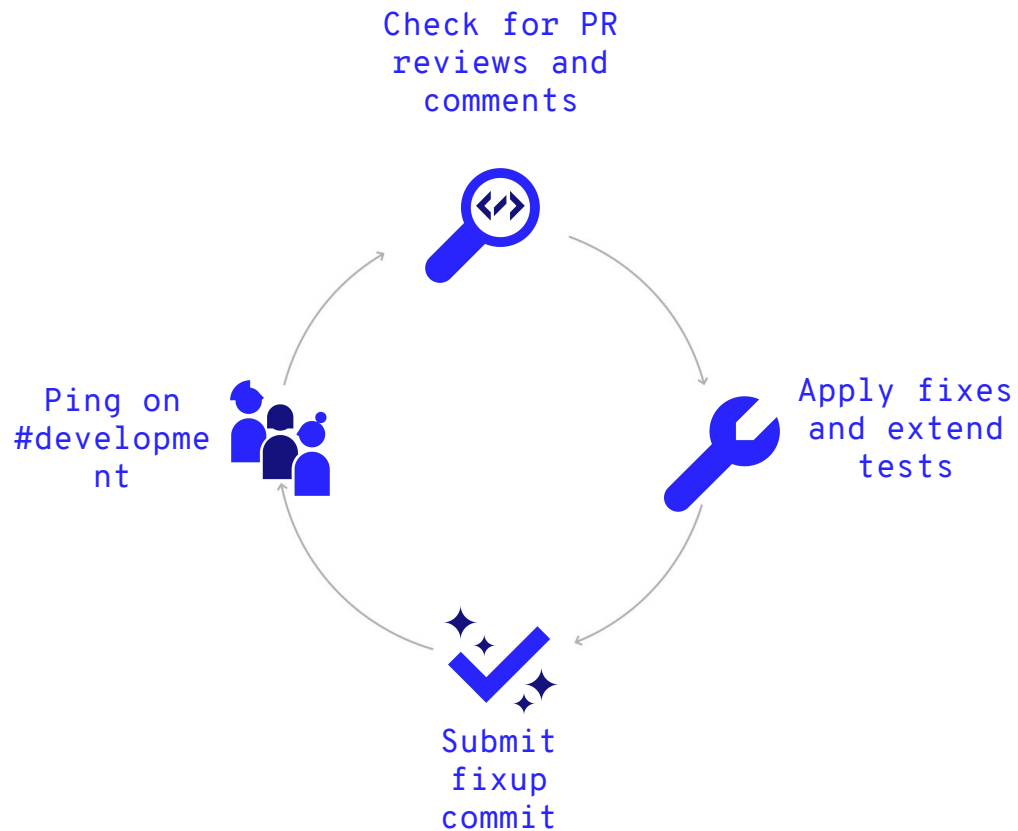
# How to contribute

---



# PR Review

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



# Example first issues

## First issues

---

- Add examples DAGs
  - Redis publish operator
  - SQLite / Postgres operators
- New operators:
  - Redis pull operator
- Fix pylint:
  - `scripts/ci/pylint_todo.txt`
- Simple [or not]:
  - Fix DAG CLI
  - Improve coverage for `hooks.spanner` | `hooks.cloud_memorystore` | `sensors.gcs`

**Thanks!**