

# 快速融入Apache Flink®开源社区

## Getting Involved in the Apache Flink® Community

机构：约克大学 York University

职位：博后 Postdoctoral Fellow

演讲者：崔星灿 Xingcan Cui



# 个人简介 About Me



# 内容 Agenda

## 1. Apache Flink开源社区的基本知识和日常流程

Things You Need to Know about the Apache Flink Community

## 2. 如何恰当地向社区寻求帮助

How to Seek for Help from the Community

## 3. 如何成为一名合格的Flink贡献者

How to Become a Qualified Flink Contributor

## 4. 日常工作的Tips

Tips for Daily Work



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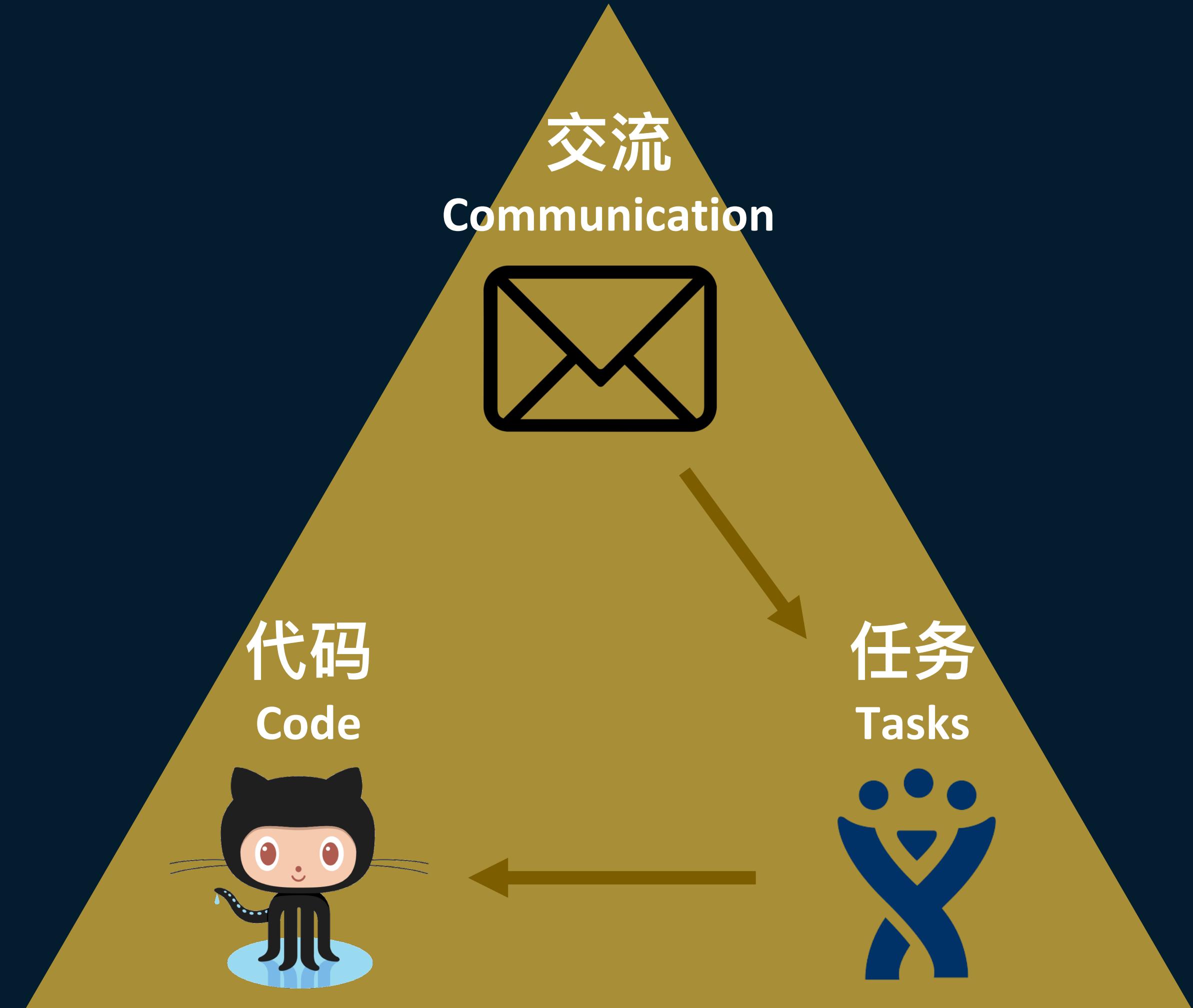
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Tips for Daily Work



# 社区核心 The Core Parts



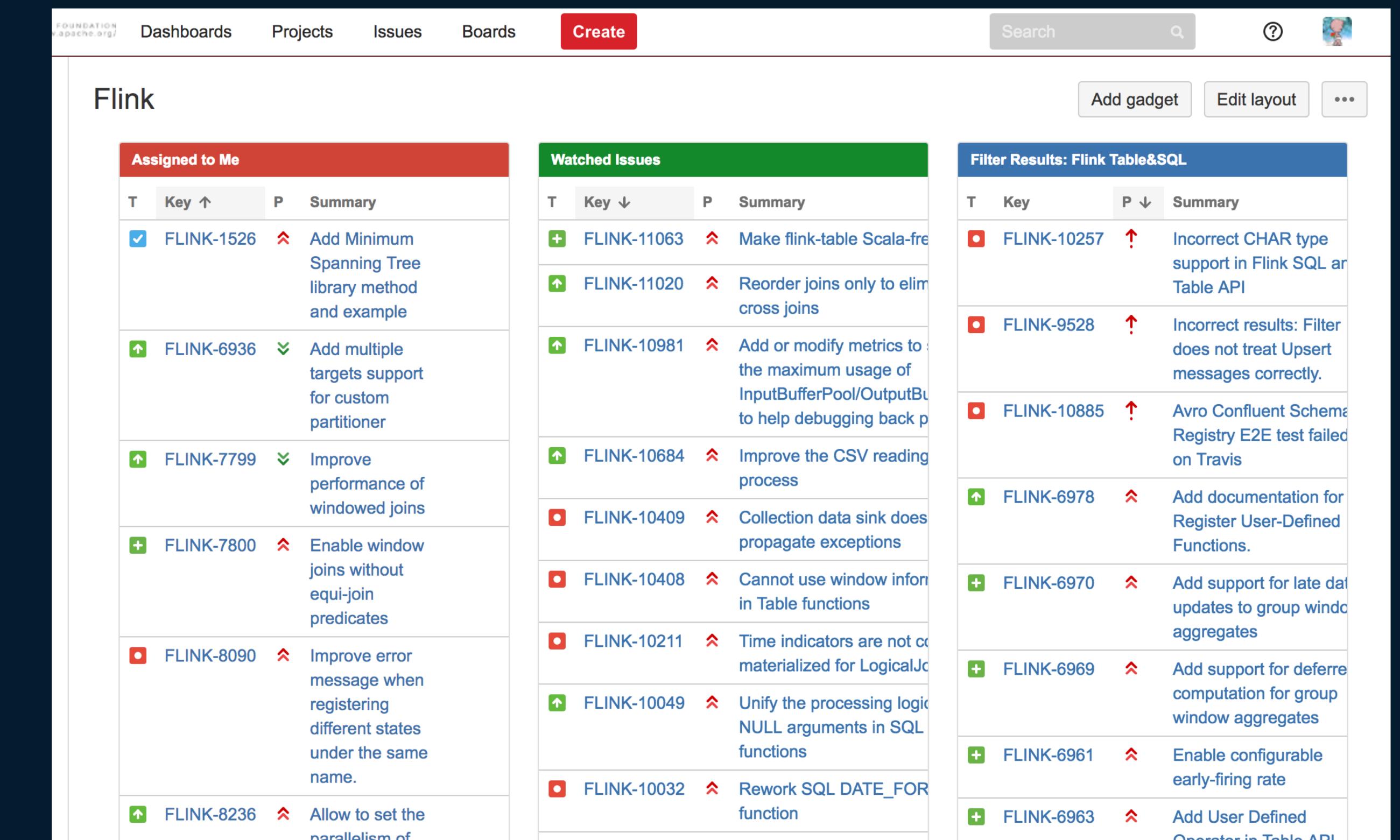
# 邮件列表 Mailing Lists

- user@flink.apache.org & dev@flink.apache.org
- Apache邮件归档 <https://lists.apache.org/>  
Apache Mail Archives



- <https://issues.apache.org/jira/projects/FLINK/>

- Bug/特性/改进  
Bugs/Features/Improvements

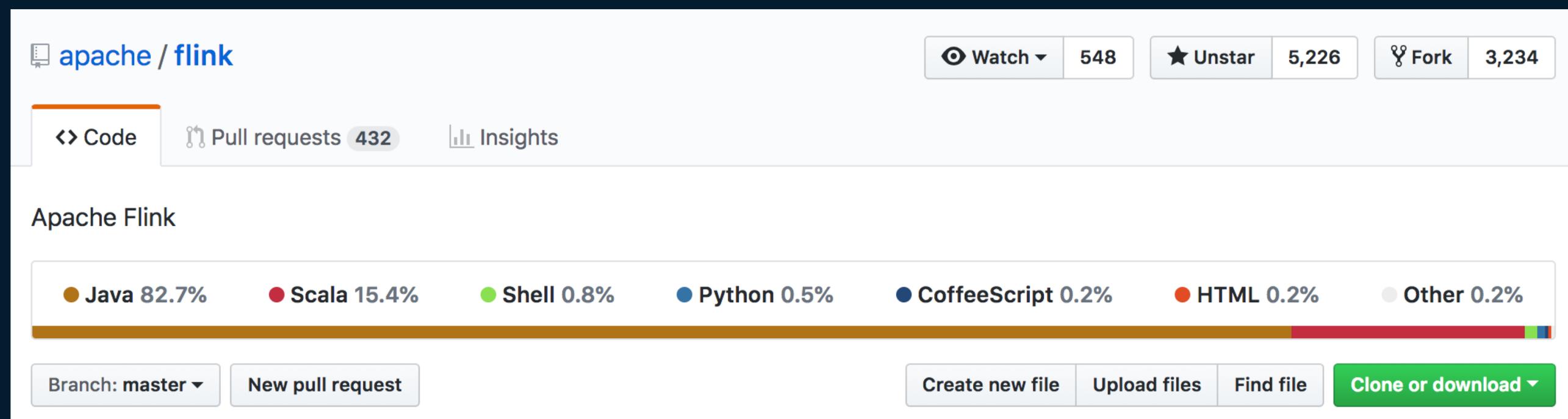


The screenshot shows the Apache Flink JIRA dashboard with three main sections:

- Assigned to Me**: A table listing issues assigned to the user. It includes columns for T (Type), Key, P (Priority), and Summary. Issues listed include FLINK-1526, FLINK-6936, FLINK-7799, FLINK-7800, FLINK-8090, and FLINK-8236.
- Watched Issues**: A table listing issues the user is watching. It includes columns for T (Type), Key, P (Priority), and Summary. Issues listed include FLINK-11063, FLINK-11020, FLINK-10981, FLINK-10684, FLINK-10409, FLINK-10408, FLINK-10211, FLINK-10049, and FLINK-10032.
- Filter Results: Flink Table&SQL**: A table listing filtered issues related to Flink Table & SQL. It includes columns for T (Type), Key, P (Priority), and Summary. Issues listed include FLINK-10257, FLINK-9528, FLINK-10885, FLINK-6978, FLINK-6970, FLINK-6969, FLINK-6961, and FLINK-6963.

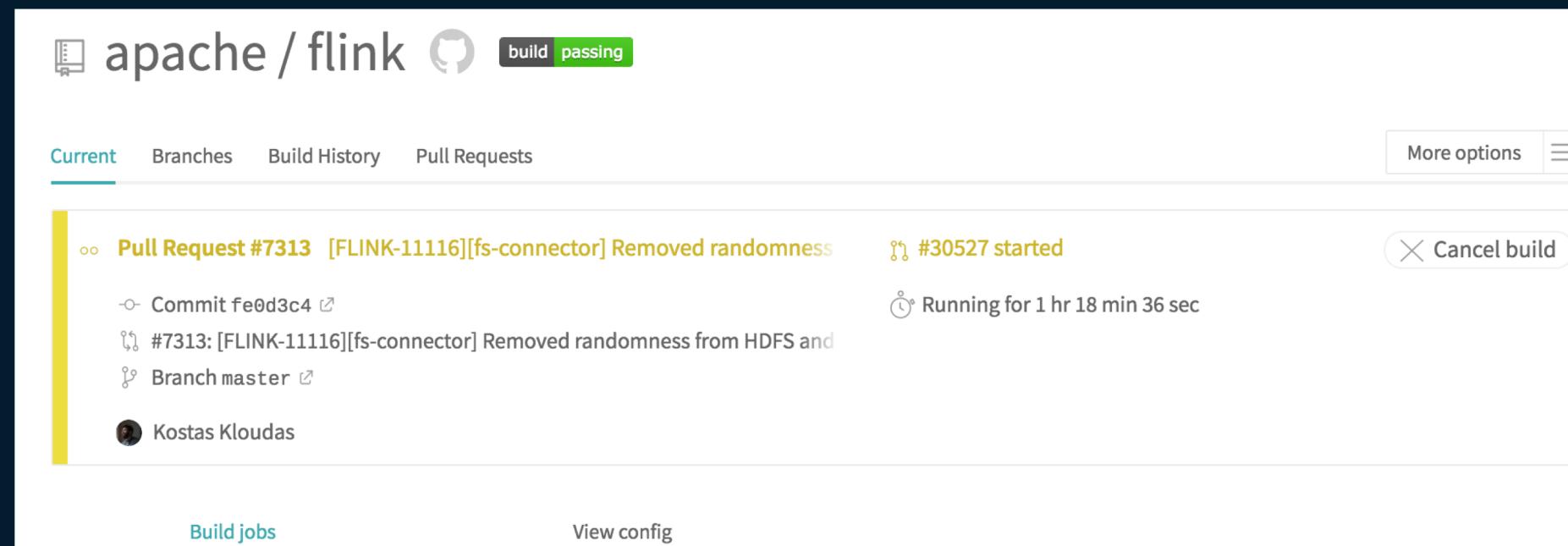
# Github

- Apache Git仓库副本 <https://github.com/apache/flink>  
Mirror of the Apache Git Repository



Github相关插件  
Github Related Plugins

- Travis CI



# 其他工具 Other Tools



- 文档 Google Doc

Documents



- Wiki / [Flink Improvement Proposal \(FLIP\)](#)

# 完整流程 The Whole Process



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# 求助途径 Ways for Help

- 被动途径

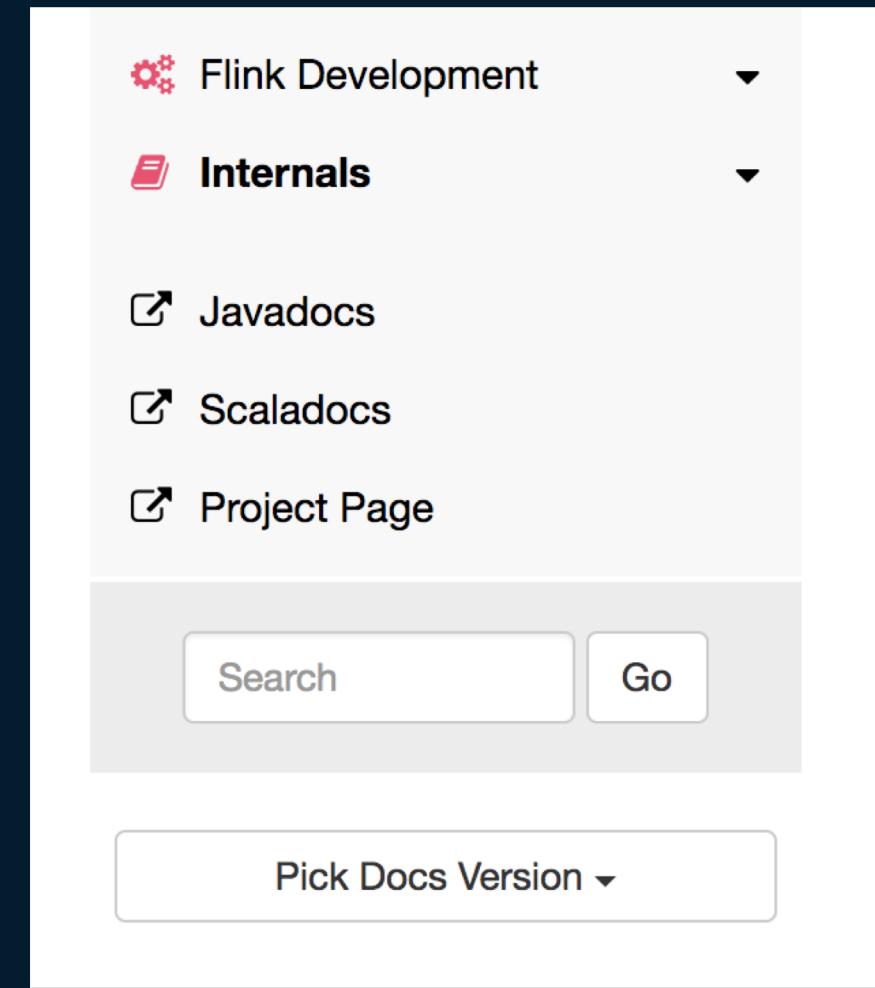
The Passive Ways

文档 Documentation  
StackOverflow  
邮件归档 Mail Archives  
源码 Source Codes

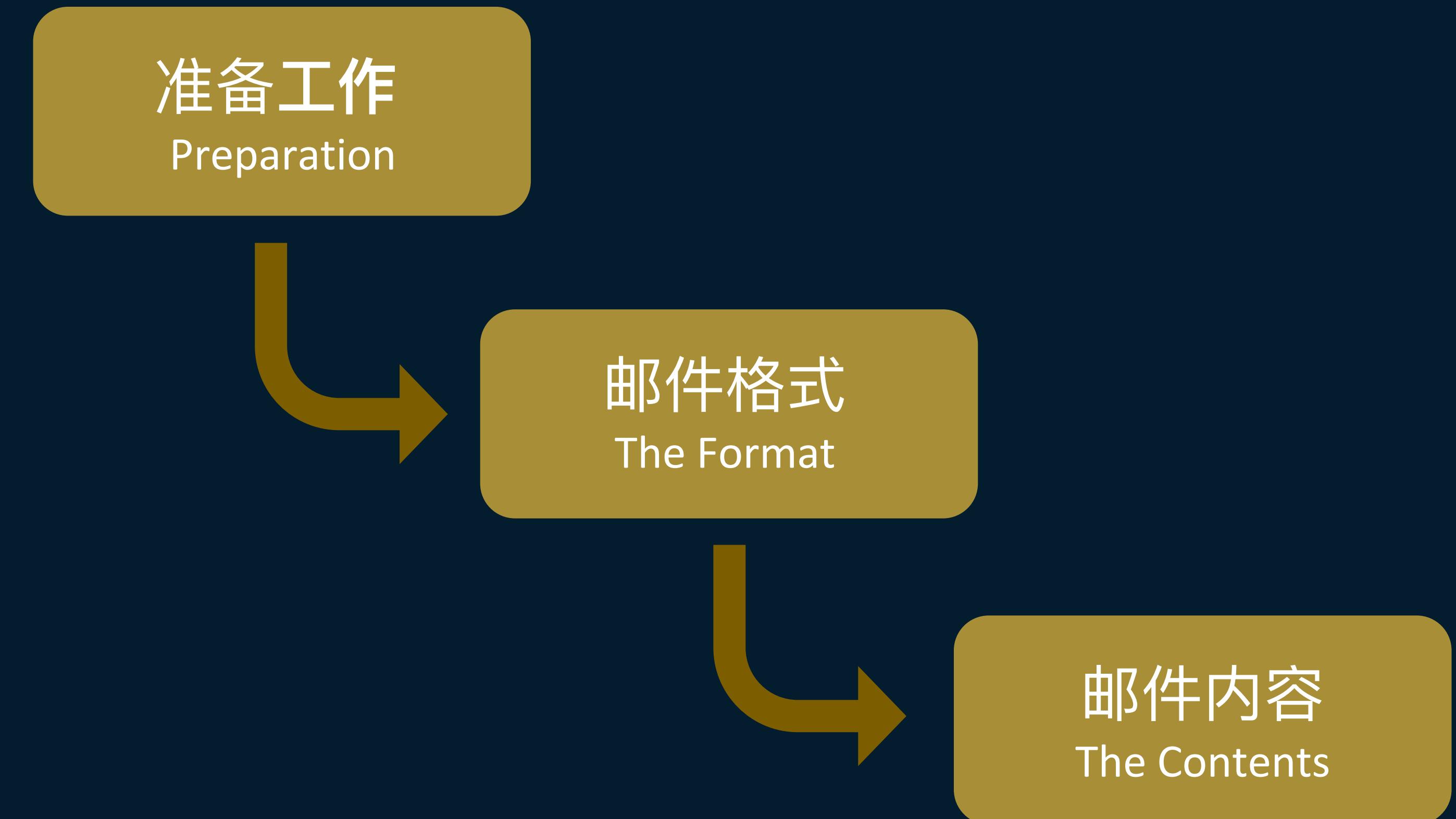
- 主动途径

The Active Ways

邮件列表 Mailing Lists  
JIRA问题 JIRA Issues



# 怎么发邮件 How to Send Emails



# 准备工作 Preparation

- 选一个恰当邮箱和用户名

Choose a Proper Email Address and User Name

- 去掉签名

Remove the Signature

- 选用英文的邮箱客户端

Choose an English Mail Client

# 邮件格式 The Format

**Timo Walther**  
 Re: [DISCUSS] Long-term goal of making flink-table Scala-free  
 To: dev@flink.apache.org

November 22, 2018 at 4:54 AM

**Hi everyone,**

I would like to continue this discussion thread and convert the outcome expect in the upcoming releases.

I created a design document [1] that clarifies our motivation why we want and a suggestion for a migration plan.

It would be great to start with the efforts for the 1.8 release such that such as improvements to the connectors and external catalog support are not blocked.

Please let me know what you think.

Regards,  
 Timo

[\[1\] https://docs.google.com/document/d/1PPo6goW7tOwxmpFuvLSjFnx7BF8IVz0w3dcmPPyqvoY/edit?usp=sharing](https://docs.google.com/document/d/1PPo6goW7tOwxmpFuvLSjFnx7BF8IVz0w3dcmPPyqvoY/edit?usp=sharing)

[See More from Fabian Hueske](#)

**TW**

# 邮件内容 The Content

- 交代清楚问题和背景

Explain Your Problem and the Background

- 客气一些

Be Polite

- 减少语病

Decrease Grammatical Mistakes

- 避免附件

Avoid Using Attachments



# 创建一个JIRA问题 Create a JIRA Issue



Create Issue

Configure Fields ▾

Project\* Flink (FLINK)

Issue Type\* Improvement

Summary\*

Priority Major

Due Date

Component/s

Affects Version/s

Fix Version/s

Assignee Automatic

Create another Create Cancel

## Issue Type

- ▲ Improvement
- Bug
- ✚ New Feature
- ✓ Test
- ▲ Wish
- ✓ Task

## Priority

- ↗ Major
- ✗ Blocker
- ↑ Critical
- ▼ Minor
- ↓ Trivial

## Description

Style B I U A

[~xccui] [Atlassian | <http://atlassian.com>]

{NullPointerException} {code:java} ... {code}

:) :( :P :D ;)

G

Visual Text

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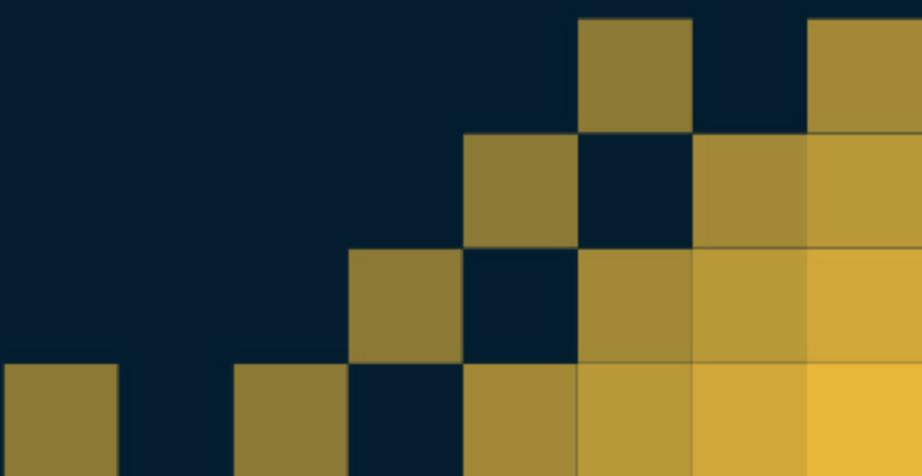
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# 贡献途径 How to Contribute

- 提出问题或需求  
Propose Questions or Requirements
- 回答问题或分享解决方案  
Answer Questions or Share Your Solutions
- 参与讨论  
Join Discussions
- 贡献代码  
Contribute Codes
- 协助审核  
Help to Review



# 有关讨论 About Discussions

- 确保理解问题

Try to Understand the Problem First

- 一次只讨论一个问题

One Thread for Only One Topic

- 从大局出发

Think from a Large View



# 何处着手 Where to Start from

- 关注一两个自己感兴趣的模块

Concentrate on One or Two Components

Gelly, Machine Learning

- 盯紧模块“负责人”

Keep an Eye on “the One in Charge”

CEP

SQL/Table, SQL Client

Connectors

DataStream and DataSet

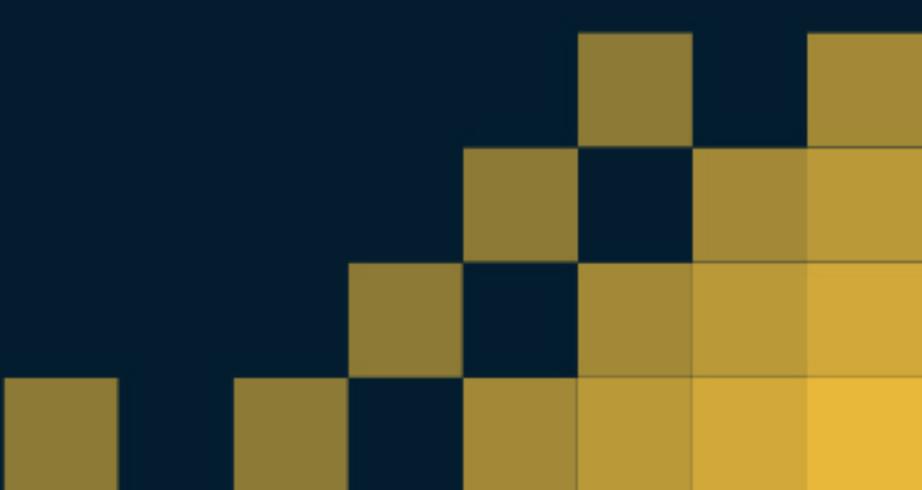
State and Checkpoint

Runtime

Cluster Management

- 从committer提的JIRA问题开始做起

Pick JIRA Issues Created by Committers



# 编码之前 Before Coding

- 在JIRA中把任务分配给自己

Assign the JIRA Issue to Yourself

申请JIRA权限

Apply for Contributor Permissions

- 充分讨论

Discuss Thoroughly

- 仔细阅读相关代码

Read Related Codes Carefully

# 提交PR之前 Before Creating a PR

- 设置好Github用户名和邮箱

Setup the Github User Name and Email

- 确保Travis CI通过

Pass Travis CI First

- 提交前把所有commits合并为一个

Squash Commits Before Opening a PR

[FLINK-XXXXX] [COMPONENT] Title

- 检查commit消息以及PR标题命名格式

Check the Messages of Your Commit and the PR Title

# PR说明 The Description of a PR

背景

The Background

产生原因

The Cause

解决的问题

The Problem

动机

The Motivation

解决思路

The Idea

实现方法

The Implementation

影响

The Effects

# 审核过程 The Reviewing Process

- 不要轻易Ping别人

Ping Others with Caution

- 谦虚并及时响应反馈

Be Modest and Response Quickly

- 持续改进

Make Continual Improvement

- 保留开始审核后的提交记录

Keep the Commit History of the Reviewing Process

有主见

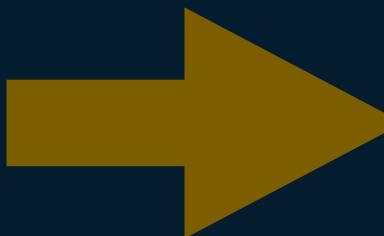
Know Your Own Mind



# 提交流程 The Commit Process

1. 拉取PR到本地

Fetch Commits of a PR to a Local Branch



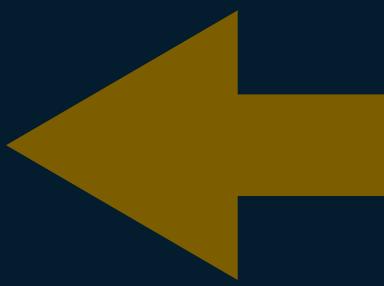
2. 简单的重构

Review and Do Some Minor Refactorings



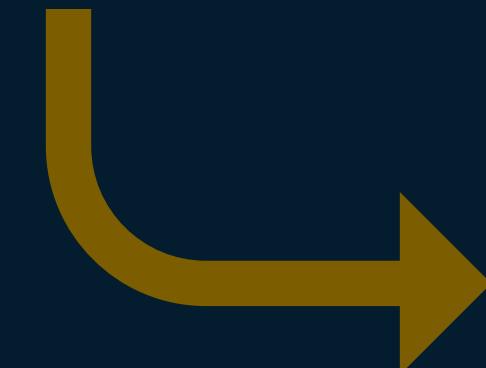
4. 拉取最新master分支并做rebase

Pull the Latest Master and Rebase on It



3. 合并commit并整理提交信息

Squash the Commits and Clean up the Commit Message



5. 合并到本地Master然后推送触发执行Travis

Merge to Local Master and Push to Trigger a Travis Run



6. 如果测试通过推送到远程Apache Master

If tests pass, Push Master to Apache Master



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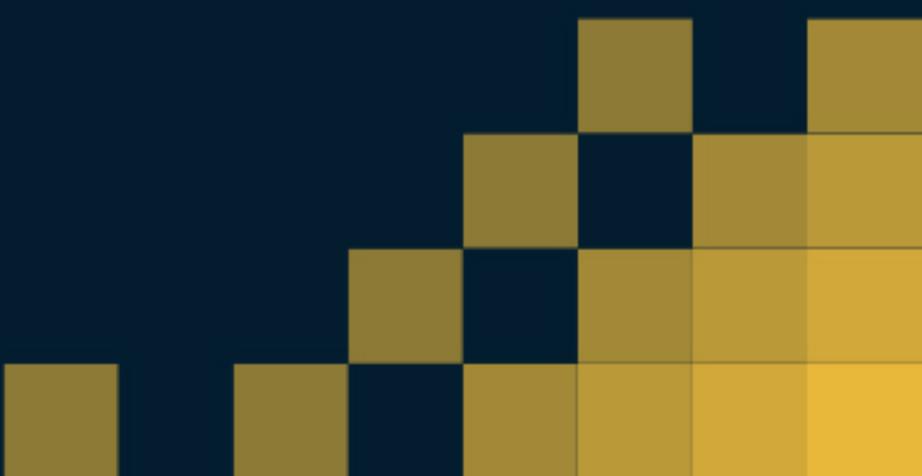
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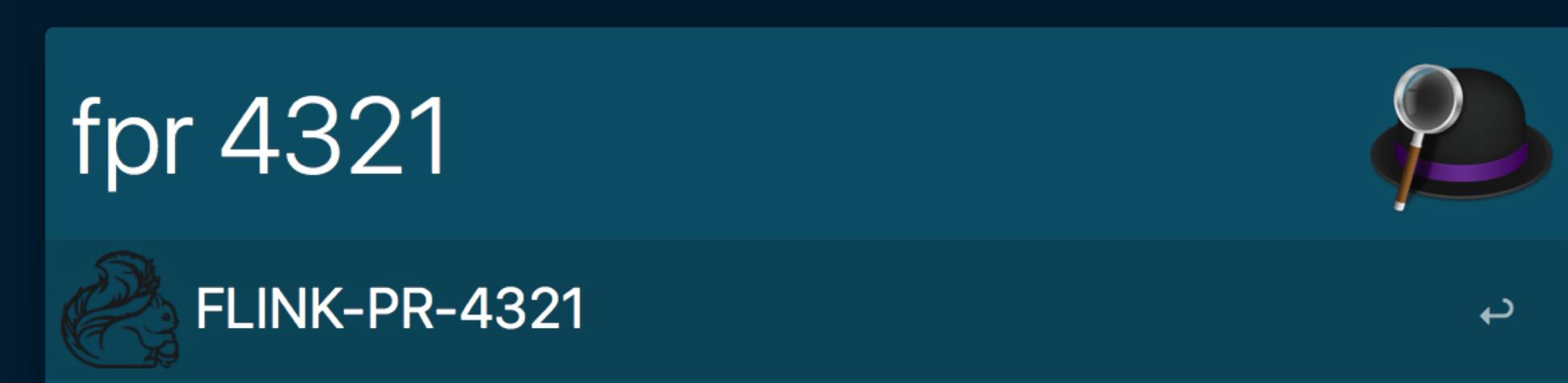
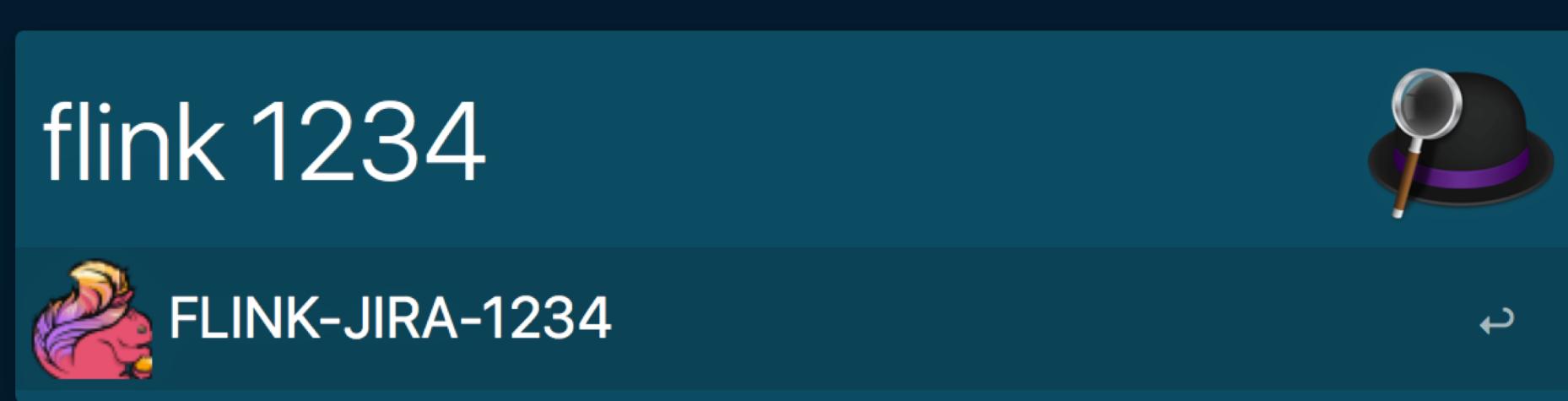


# Shell函数 Shell Functions

```
function fetch-pr() {  
    if [ $# != 1 ] ; then  
        echo "USAGE: fetch-pr PR"  
    else  
        git fetch src pull/$1/head:pr-$1  
        git checkout pr-$1  
    fi  
}
```

```
function rm-remote() {  
    if [ $# != 1 ] ; then  
        echo "USAGE: rm-remote BRANCH"  
    else  
        git push -d origin $1  
    fi  
}
```

# Alfred/Wox

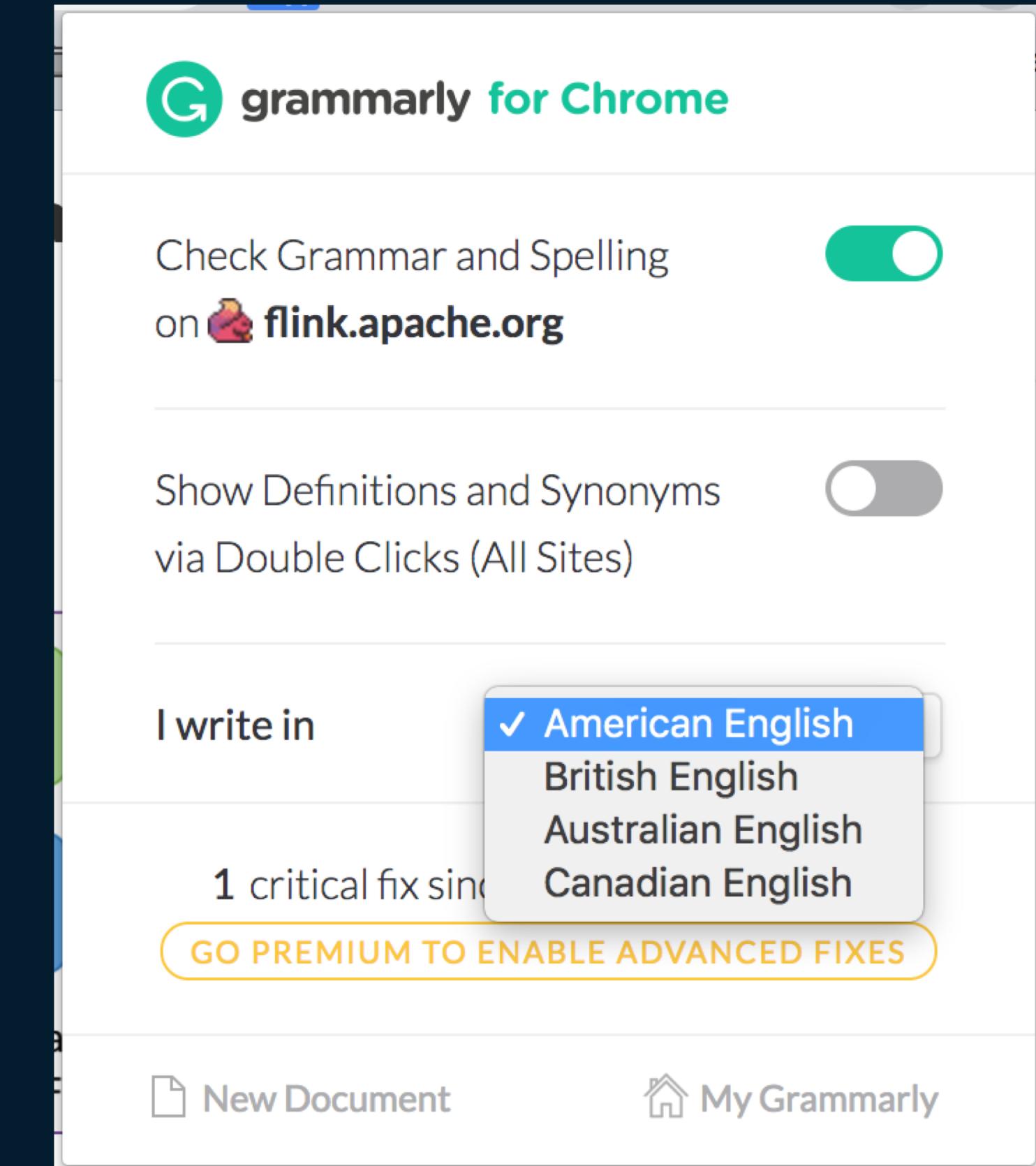


# 语法检查 Grammar Check

- 双引号 + Google

Double Quotes + Google

- grammarly



# JIRA 快捷键 Keyboard Shortcuts for JIRA



## Keyboard Shortcuts

### Global Shortcuts

Go to Dashboard:	<code>g</code> then <code>d</code>
Browse to a Project:	<code>g</code> then <code>p</code>
Go to Agile:	<code>g</code> then <code>a</code>
Find Issues:	<code>g</code> then <code>i</code>
Administration Quick Search:	<code>g</code> then <code>g</code>
Quick Search:	<code>/</code>
Create an Issue:	<code>c</code>
Quick Operations:	<code>.</code>
Open shortcut help:	<code>?</code>
Form Submit:	<code>Ctrl</code> + <code>Alt</code> + <code>s</code>

### Navigating Issues

View selected Issue:	<code>o</code> or <code>Enter</code>
Next Issue:	<code>j</code>
Previous Issue:	<code>k</code>
Dock/Undock the Filters Panel:	<code>[</code>
Next Activity:	<code>n</code>
Previous Activity:	<code>p</code>
Focus search field:	<code>f</code>
Search for issues:	<code>u</code>
Switch filter view:	<code>t</code>
Detail View Order by:	<code>z</code>

### Issue Actions

Edit Issue:	<code>e</code>
Assign Issue:	<code>a</code>
Comment on Issue:	<code>m</code>
Edit Issue Labels:	<code>l</code>

### Agile Shortcuts

Backlog:	<code>1</code>
Active sprints / Kanban board:	<code>2</code>
Reports:	<code>3</code>
Presentation mode:	<code>4</code>

# 最后 The Last Words

- 每天过一遍邮件列表

Check Mailing Lists Everyday

- 自己使用并向他人安利Flink

Use Flink and Introduce It to Others

- 保持纯洁的动机

Keep Your Motivation PURE



THANKS

