



About me – Fabian Hueske

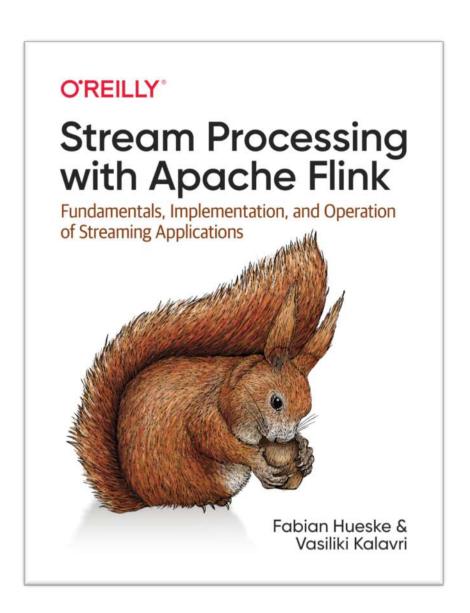
个人简介

Apache Flink PMC Member and with the project since the start.
 [Apache Flink 的PMC成员,项目最早期的参与者]

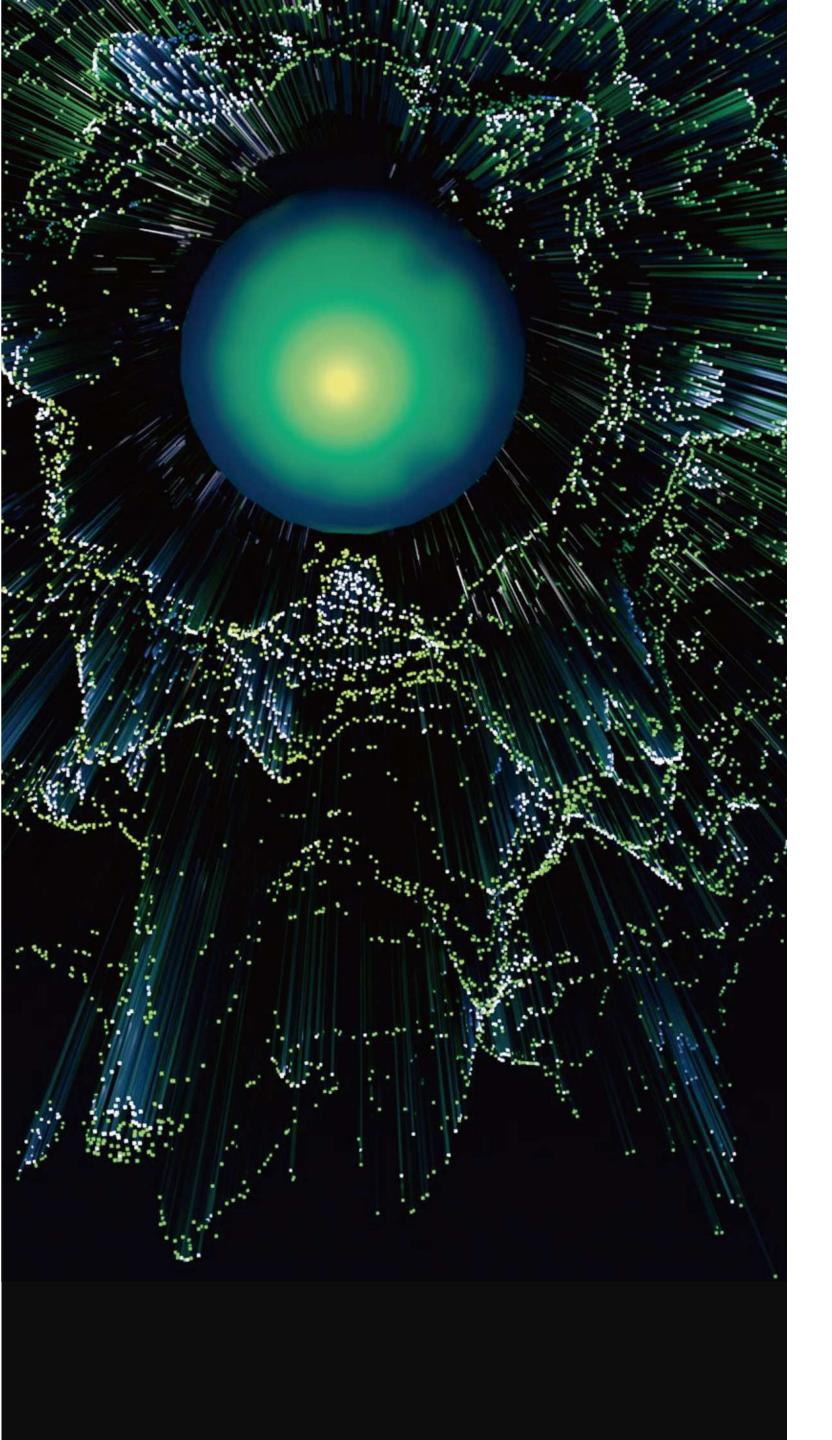
Co-Author of "Stream Processing with Apache Flink".
 [《基于Apache Flink的流处理》的作者之一]

• Co-Founder and Software Engineer at Ververica. [Ververica联合创始人, 软件工程师]







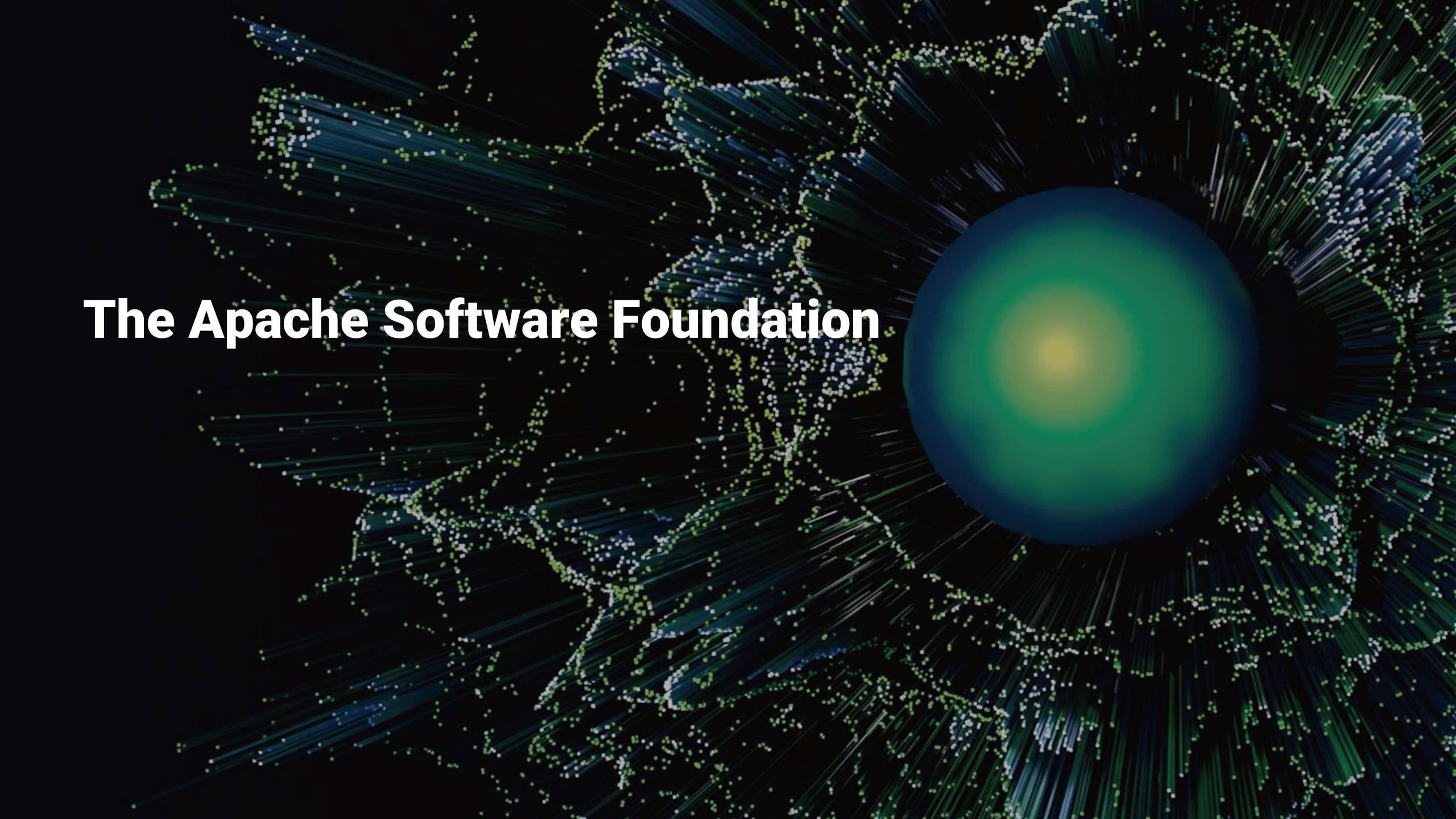




Goals of This Talk

[本次演讲的目的]

- Introduce the Apache Software Foundation
 [介绍Apache软件基金会]
- Explain the Apache Way and how Apache projects are managed [解释Apache之道和Apache项目的管理模式]
- Talk a bit about Apache Flink's history
 [简单聊一聊Apache Flink的历史]
- Give guidance and encourage to contribute to Apache Flink
 [指导和鼓励大家参与贡献Apache Flink项目]





The Apache Software Foundation in Numbers

[从数字看Apache软件基金会]

- Largest Open Source organization of the world [全世界最大的开源组织]
- 300+ projects and sub-projects, 50+ incubating projects [300+的项目和子项目, 50+的孵化项目]
- 7000+ committers, 730+ members, all volunteers [7000+的提交者, 730+的成员, 都是以志愿方式参与]
- 3200 committers changed 78 million lines of code in 2018.
 [2018年有3200名提交者贡献了7800万行代码]





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Mission of the Apache Software Foundation

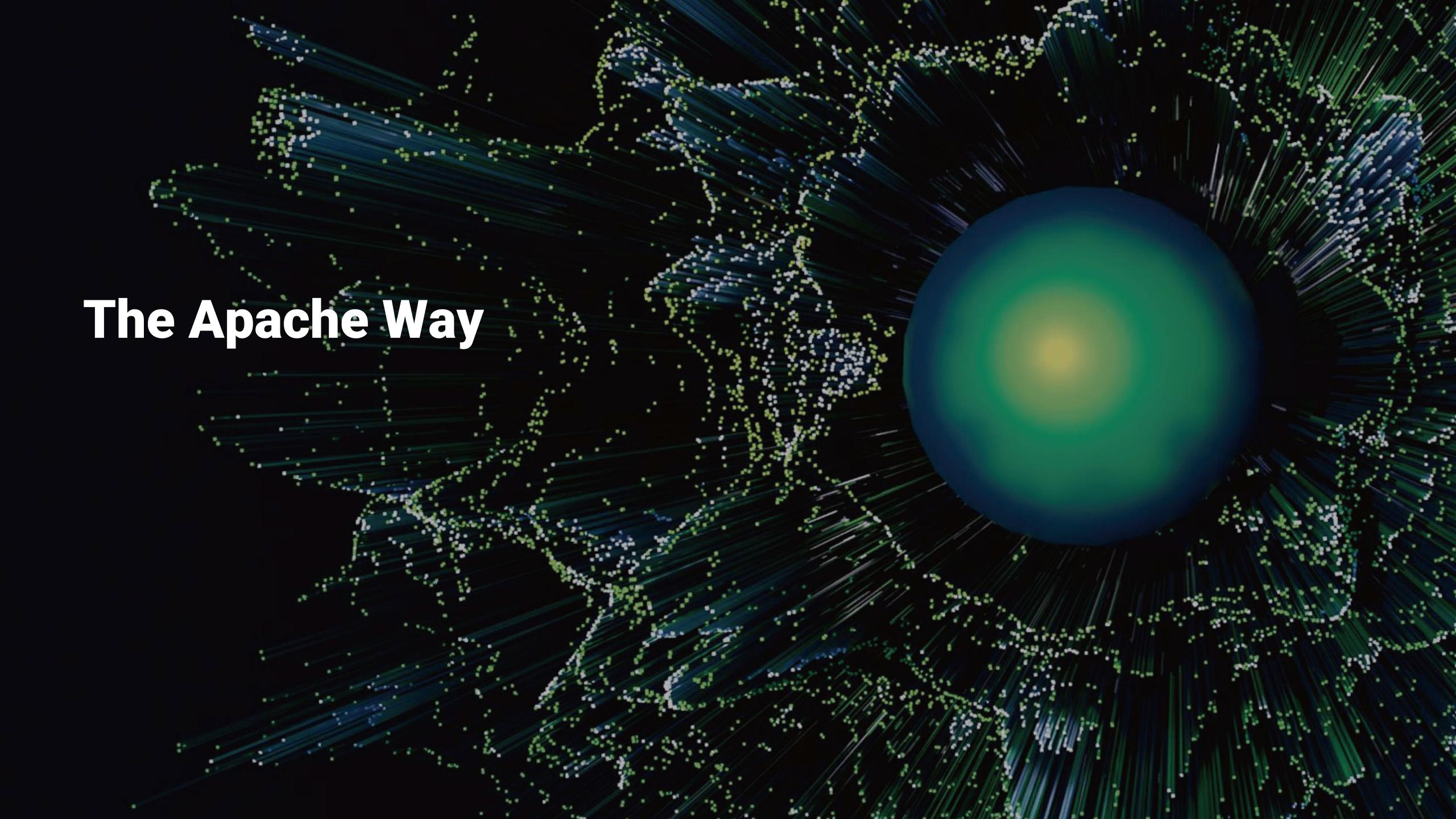
[Apache软件基金会的任务]

"The mission of the Apache Software Foundation (ASF) is to provide software for the public good. We do this by providing services and support for many like-minded software project communities of individuals who choose to join the ASF."

[Apache软件基金会(ASF)的使命是为公众提供软件。为了实现这个使命,我们向很多选择加入ASF的志趣相投软件项目社区提供服务和支持。]

- The ASF is a nonprofit charitable organization and strictly vendor neutral. [ASF是一个非盈利性慈善组织,严格保持厂商中立]
- Provides infrastructure & legal framework for open source projects. [为开源项目提供基础设施和法律框架]







The Apache Way

[Apache之道]

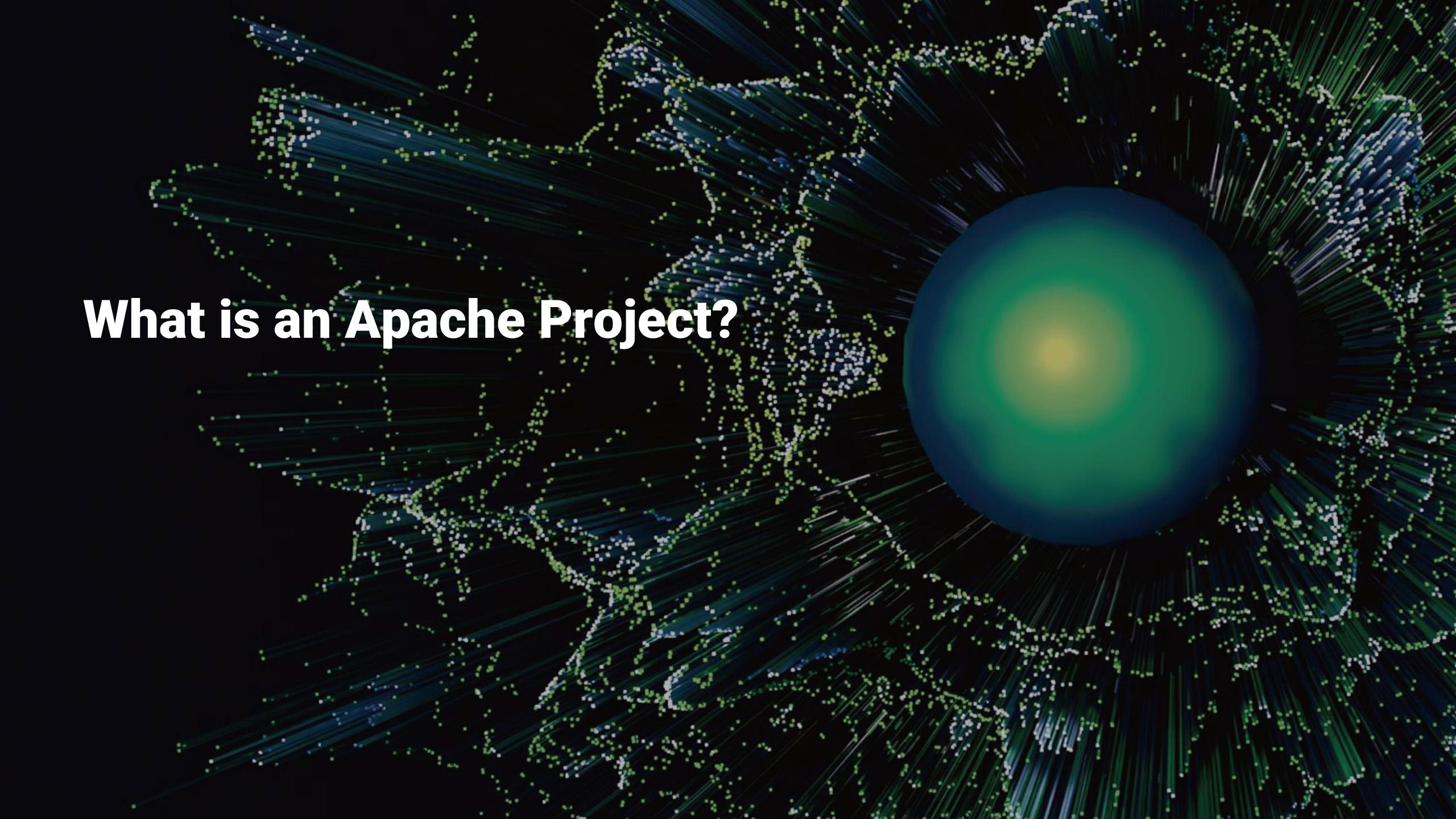
- Community over Code! Non-code contributions are valued a lot!
 [社区重于代码! 非编码的贡献非常重要!]
- Project decisions by people who contributed to the project. Everyone acts as an individual.
 [项目由贡献者决策。每个人都作为独立个体参与。]
- Discussions and decisions happen on open and archived mailing lists. Aiming for consensus! [在开放和会被归档的邮件列表中讨论和决策,目标是为了达成一致。]
- Software belongs to the ASF and is released under the Apache License V2.
 [软件归ASF所有,依照Apache 许可 V2发布。]



The Apache License V2

[Apache License V2许可]

- Very popular open source license (TOP 3). [非常流行的开源许可(前3名)。]
- Business friendly license. Commercial use, modification, and distribution are allowed. [许可对商业化非常友好,允许商业化使用、修改和分发。]
- Users cannot hold the ASF liable or use Apache's trademarks.
 [用户不能承担ASF法律责任或使用Apache商标。]





What is an Apache Project?

[什么是Apache项目]

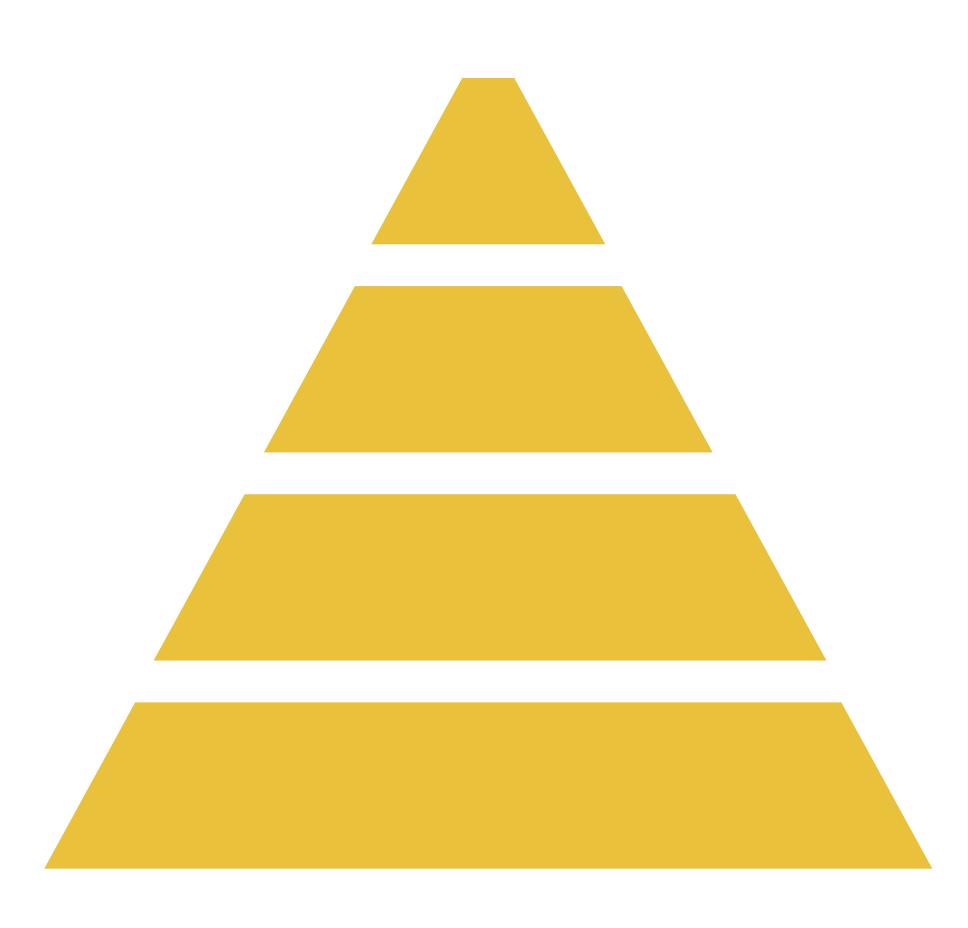
- A project consists of a community that develops an open source software.
 [每个项目都由负责开发某一开源软件的社区组成]
- The project is managed by its Program Management Committee (PMC).
 [程序管理委员会(PMC)负责管理项目]
- The project has its own community processes and "rules" but follows the principles of the Apache Way. [每个项目都可以有自己的流程和"规则",但必须遵循Apache之道]
- Apache projects are independent of each other.
 [Apache不同项目之间相互独立]



Roles in an Apache Project's Community

[Apache项目社区的角色分工]

- PMC Member [PMC成员]
- Committer [提交者]
- Contributor [贡献者]
- User [用户]



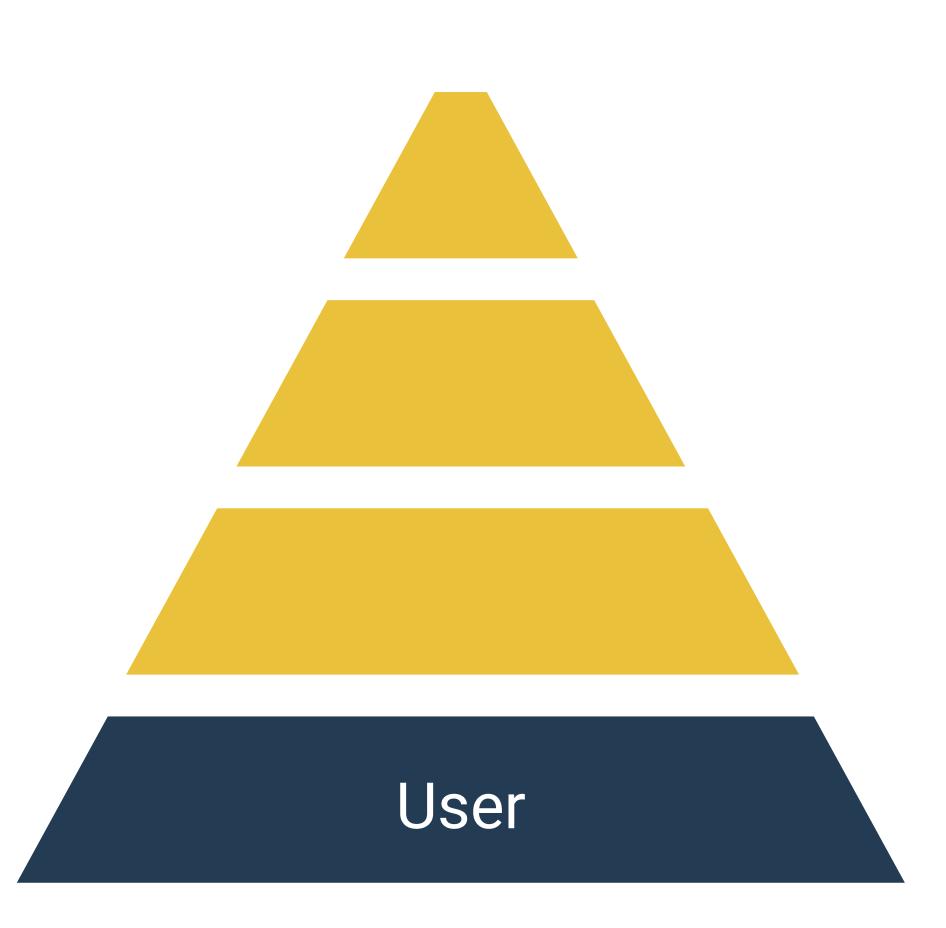


User

[用户]

Uses the software of the project.
 [使用这个项目发布的软件]

• Can ask questions on the mailing list (or somewhere else). [可以在邮件列表或以其他途径询问问题]

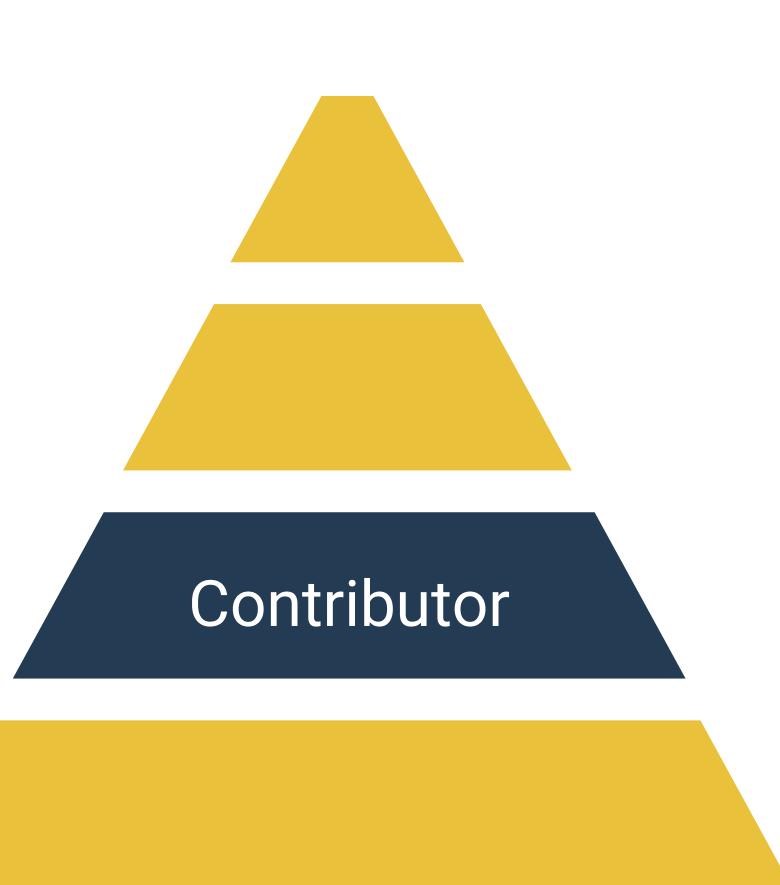




Contributor

[贡献者]

- Contributes to the community or software. [贡献社区或软件]
- Contributes source code or documentation. [贡献源码或文档]
- Reports bugs, answers user questions, participates in discussions.
 [提交Bug,解答用户问题,参与讨论]
- Helps growing the community (talks, blog posts, ...).
 [通过演讲、博客等方式帮助发展社区]





Committer

[提交者]

- Has write access to the project's code repository.
 [对项目代码库有写权限]
- Can merge contributions of other community members. [可以合并其他社区成员贡献的代码]
- Earned merit by contributing (not just code!). [通过不断贡献(不仅限于代码)获得]
- Has an @apache.org email address. ☺
 [拥有一个@apache.org域名的邮箱]





PMC Member

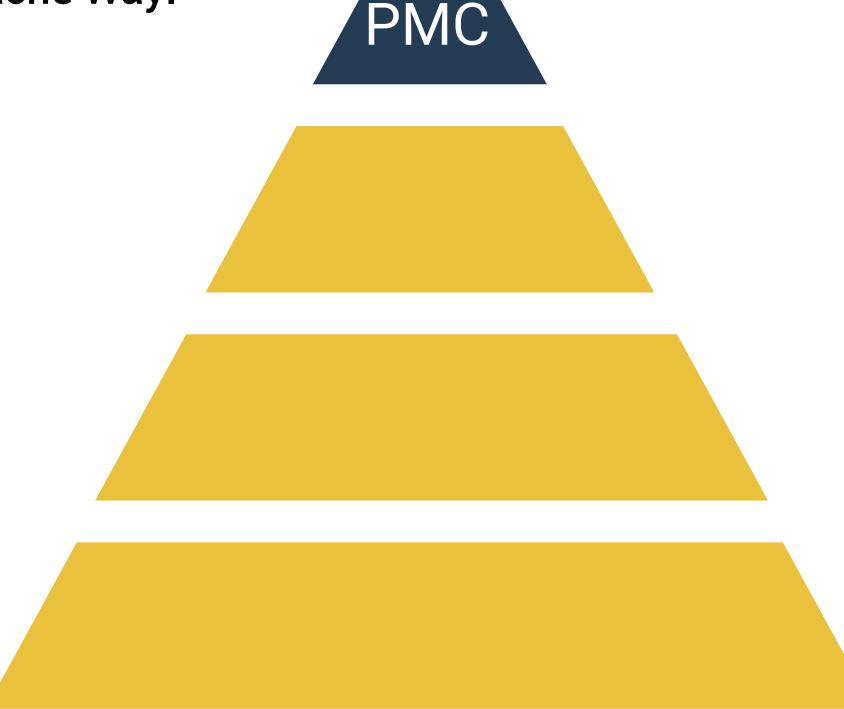
[PMC成员]

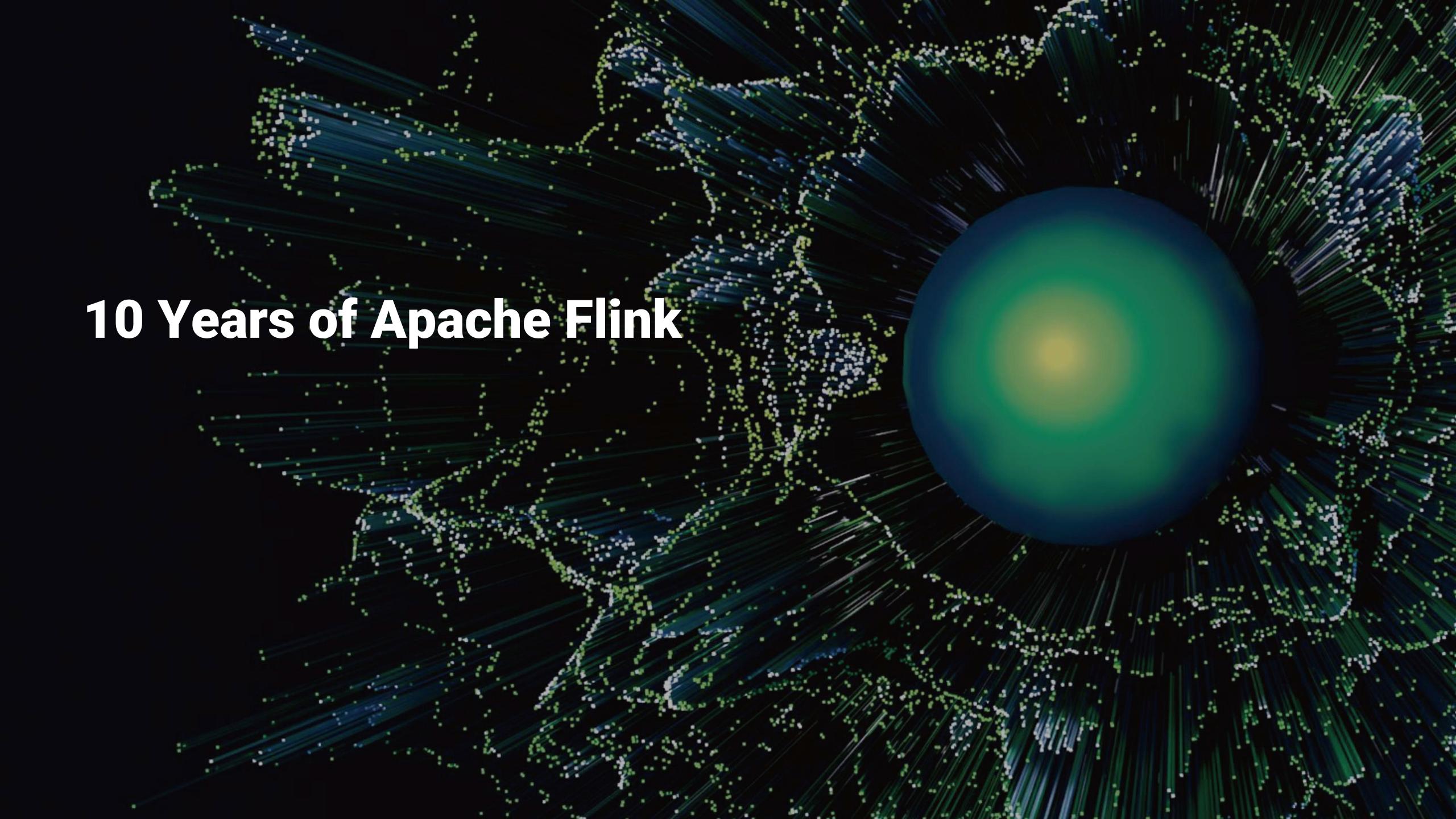
• Oversees the health of the community and alignment with the Apache Way. [监督社区的健康状况,确保其遵循Apache之道]



• Votes on releases, new committers & PMC members. [对版本发布、提名新的提交者&PMC成员进行投票]

Obliged to protect the project's trademarks.
 [有义务保护项目商标]







How it All Began...

[起源]

- In 2009, an academic research project called "Stratosphere" was started in Berlin. [2009年在柏林发起的一项名为"Stratosphere"的学术研究项目]
- Our mission: "Develop the next generation Big Data Analytics platform".
 [我们的目标是: "开发下一代大数据分析平台"]



- End of 2013, the first generation of PhD students was about to finish.
 [2013年末,第一批参与项目的博士研究生即将毕业]
- We had a state-of-the-art system that offered unique and distinguishing features.
 [我们拥有了一个极具特色的先进系统]



Starting Apache Flink

[Apache Flink项目启动]

• In April 2014, we donate the code to the ASF Incubator and call it Apache Flink. [2014年4月,我们把代码捐献给ASF孵化器,并将项目更名为Apache Flink。]



- Stratosphere developers and ASF mentors are initial committers.
 [Stratosphere开发人员和ASF导师成为了最初的提交者。]
- Community grows quickly due to collaborations with European universities. [在欧洲多所大学的协助下,社区发展迅速。]
- In December 2014, Flink graduates from the Incubator and becomes a top-level project. [2014年12月, Flink顺利从孵化器毕业并成为了顶级项目。]



Building a Community and Growing the Adoption

[建立社区并推广使用]

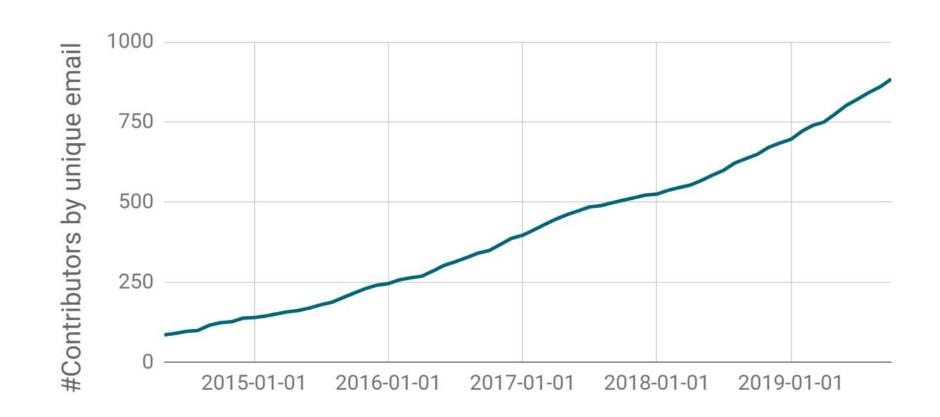
- Initial project focus is on batch and machine-learning. Spark had gained a lot of mindshare in this area. [项目最初关注批处理和机器学习。但Spark在这方面已经占据先机。]
- In mid 2015, the community shifts the focus on stream processing. [2015年中,社区将注意力转向流式处理。]
- Flink pioneers many important stream processing features in open source. [在开源界, Flink开创出诸多重要的流处理特性。]
- In late 2016, Flink adoption speeds up. Prominent users are Alibaba, Netflix, Uber. [2016年末, Flink的使用率开始加速提升。代表用户有阿里巴巴、网飞和优步等公司。]

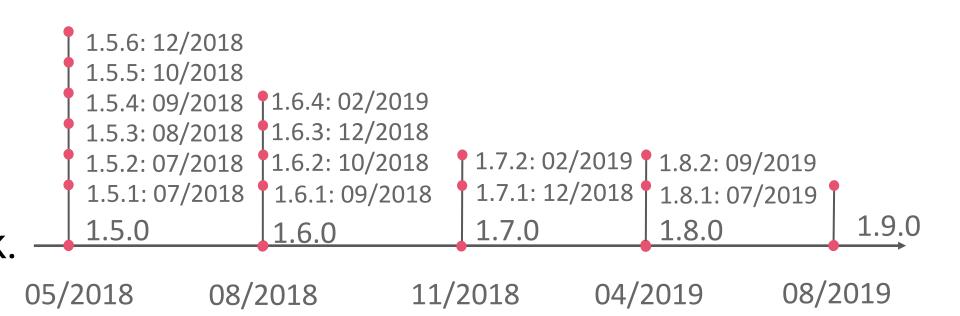


Apache Flink Today

[今天的Apache Flink]

- 800+ Contributors, 51 committers, 26 PMC members [800+贡献者,51为提交者,26位PMC成员]
- Most active user mailing lists of all Apache Projects in 2018.
 [2018年最活跃的Apache用户邮件列表。]
- Rapid development speed. A new version is released every 3-4 months.
 [发展迅速,每隔3-4个月发布一个新的版本。]
- The world's most demanding stream processing applications run on Flink. [全世界要求最为严苛的流处理应用运行在Flink之上。]







Powered By Apache Flink

[Apache Flink用户]





































































Contributing to Apache Flink

[贡献Apache Flink]

- There are many ways to contribute to Flink! [贡献Flink的方式有很多!]
- Contributing to an open source project is fun, rewarding and you learn a lot.
 [贡献开源项目很有趣也很有意义,你将从中收获很多。]
- Contributors earn merit to become a committer.
 「贡献者通过积累"贡献值"成为提交者。]
- See Flink bylaws for community rules: https://cwiki.apache.org/confluence/display/FLINK/Flink+Bylaws [查看Flink制度了解有关社区的规则:https://cwiki.apache.org/confluence/display/FLINK/Flink+Bylaws]





Contribute to User Support

[提供用户支持]

- Help answering user questions and support them solving their problems.
 [帮助回答和解决用户提出的问题。]
- Mailing lists are the primary support channels of ASF projects.
 <u>user@flink.apache.org</u> and <u>user-zh@flink.apache.o</u>rg have ~150 emails/week and 1000+ subscribers.
 [ASF项目提供帮助的主要途径是邮件列表。<u>user@flink.apache.org</u> 和 <u>user-zh@flink.apache.o</u>rg每周大约有150 封邮件,有1000+的订阅人数]
- Stack Overflow [apache-flink] tag has 2800 questions. [Stack Overflow [apache-flink]标签下大约有2800个问题。]



Contribute to Evangelism

[传播布道]

- Help spreading the word about Flink on social media.
 [在社交媒体上帮忙转发有关Flink的消息。]
- Give a talk at a meetup or conference. [聚会或会议上发表演讲。]
- Write a blog post or record a podcast or video.
 [写博客,录制播客或视频]
- Organize a meetup.[组织聚会。]



Contribute Documentation

[贡献文档]

- Documentation is never perfect and can always be improved. [文档没有完美一说,总是存在改进空间。]
- There are many Jira tasks in the "Documentation" component that can be picked up. [你可以在Jira中选择那些"Documentation"模块下的任务。]
- See contribution guide for details: https://flink.apache.org/contribute-documentation.html]
 「详情请参照贡献指南: https://flink.apache.org/contribute-documentation.html]



Contribute Chinese Content

[贡献中文内容]

- Flink has a Chinese website and documentation.
 [Flink有一个中文网站和文档。]
- Content is translated from English and needs to be kept up-to-date.
 [内容都是从英文翻译过来的,需要不断保持更新。]
- Translation tasks are collected in Jira and are in the "Chinese-translation" component.
 [翻译任务同样会在Jira中记录,相应的模块名称是 "Chinese-translation"]
- Help translating our content to Chinese and support our Chinese users.
 [协助我们将内容翻译成中文,以更好地服务于中文用户。]



Contribute to Development Discussions

[参与开发讨论]

- New features, roadmap, release scheduling and voting, and community processes are publicly discussed. [新的特性、发展路线、发布计划、投票和社区流程等都会公开讨论。]
- The <u>dev@flink.apache.org</u> mailing list is the main communication and decision-making channel of Flink. [Flink的开发交流和决策主要是在<u>dev@flink.apache.org</u> 邮件列表中进行]
- Propose or help shaping new features with your feedback.
 [通过反馈收集建议或帮助确定新的特性。]
- Participate in development discussions and releases.
 [参与开发讨论和版本发布。]



Contribute Code Reviews

[协助审查代码]

- Everybody is encouraged to review pull requests, not just committers! [我们鼓励所有人参与到Pull Requests的代码审查中来,而不仅限于提交者!]
- Before reviewing a pull request, make sure that the community agreed on the feature. [在审核某个Pull Request之前,请确保社区已经同意引入该功能。]
- Code reviews are super valuable contributions and can help to become a committer.
 [代码审查是非常重要的贡献,有助于你成为提交者。]



Contribute a Bug Fix

[协助修复Bug]

- Bugs are tracked in Jira: https://issues.apache.org/jira/projects/FLINK [所有Bug都会在Jira上追踪: https://issues.apache.org/jira/projects/FLINK]
- Before implementing a fix, ask a committer to assign the ticket to you. [在修复工作开始之前,请联系一个提交者将某个问题分配给你。]
- If the fix is more involved, discuss your solution before you implement it and open a pull request.
 [如果修复比较麻烦,请在实现和提交Pull Request之前讨论一下解决方案。]



Contribute a New Feature

[参与新特性开发]

- Check the code contribution guide first!
 [开始前请阅读代码贡献指南!]
- Propose and discuss new features on the <u>dev@flink.apache.org</u> mailing list. [在<u>dev@flink.apache.org</u> 邮件列表中提出和讨论新特性。]
- Only start implementing after everyone agrees on the approach and you have buy-in from a committer.
 [代码实现前请确保所有人已经同意你的方法,有提交者"买账"。]
- Large features should be included into the release planning.
 [较大的特性需要纳入到发布计划中。]



Requirements to Become a Flink Committer

[成为Flink提交者的要求]

- Significant and well-done contributions over a longer period of time. [在较长一段时间内做出重大和突出的贡献。]
- Showing technical oversight and experience during code reviews and dev discussions.
 [在代码审查和开发讨论期间展示出你的技术洞察能力和经验。]
- Good community engagement. Understanding Flink's community processes and the Apache Way.
 [良好地融入社区,理解Flink的社区运作流程和Apache之道。]
- Formally: PMC will vote on a community member to become a committer. [PMC成员将投票选举社区成员成为提交者。]



Summary

[总结]

- Community over Code! [社区重于代码!]
- There are many ways to contribute to Flink. [参与贡献Flink的方式有很多。]
- Check our contribution guides to learn the workflows. [查看我们的贡献指南来了解工作流程。]
- Open source work is very rewarding and you get in touch with many nice people. [开源工作将为你带来众多好处,你能接触到很多优秀的人。]



