



GOTC 2023

全球开源技术峰会

THE GLOBAL OPENSOURCE TECHNOLOGY CONFERENCE

OPEN SOURCE, INTO THE FUTURE

「OSS Compass」专场

OSS Compass 新模型解读与新功能发布

王晔晖 2023年05月28日

华为 开源工程师、LF CHAOSS Board、OSS-Compass TC Co-Chair

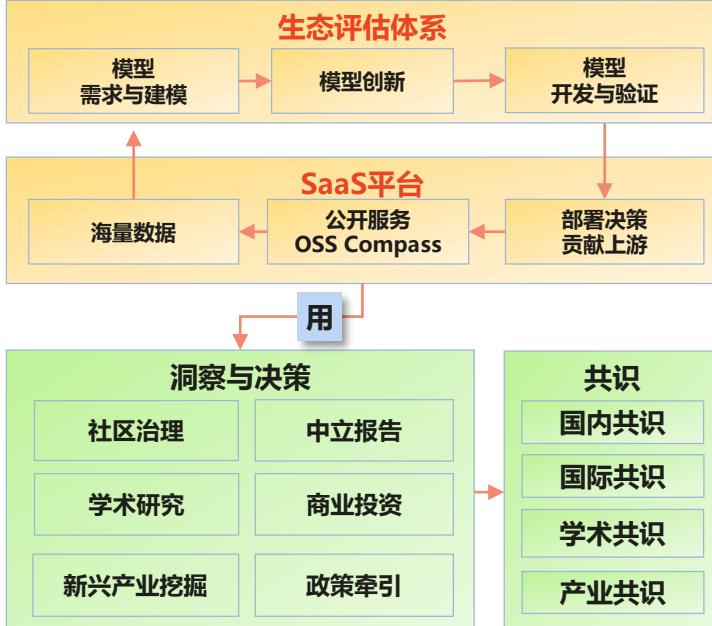
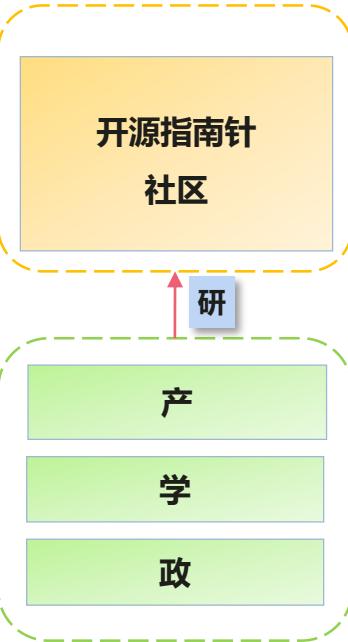
开源指南针社区-OSS Compass

GOTC

愿景与使命

- 通过构建可持续演进的开源生态评估体系和通用平台。
- 为围绕开源生态可持续发展制定的各种决策，提供深入、持续和可靠的数据洞察，形成共识。

整体方案



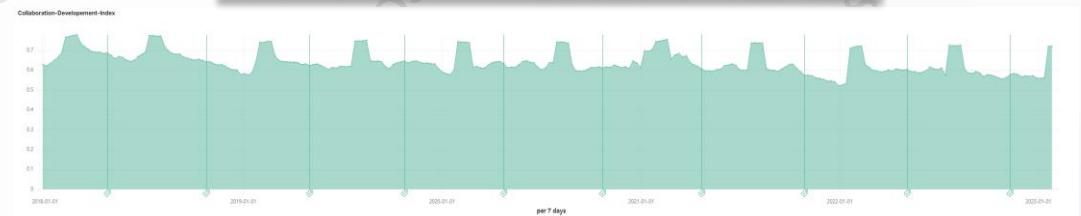
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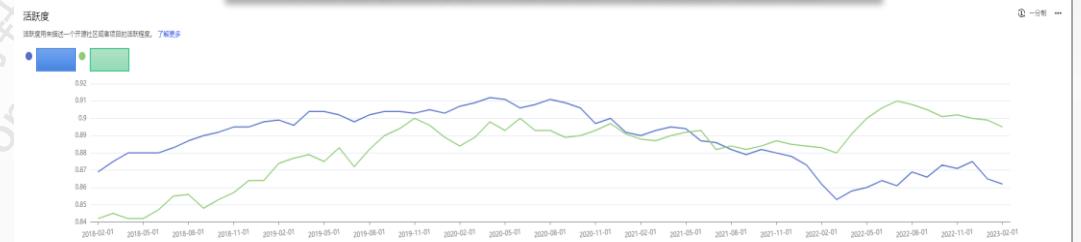
开源生态评估体系



开源生态的协作之美 - 生产力：协作开发指数模型



开源生态的竞争 - 稳健性：社区活跃度模型



开源指南针社区-OSS Compass

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初创成员



伙伴成员



最近90天

- 活跃用户: **5000+**
- 全球覆盖国家和地区: **60+**
- 项目总数: **2万+**
- 报告申请PR: **500+**
- 分类: **203个**



USERS
China 3.6K
Hong Kong 488
United States 450
Japan 166
Singapore 152
Taiwan 84
Philippines 80

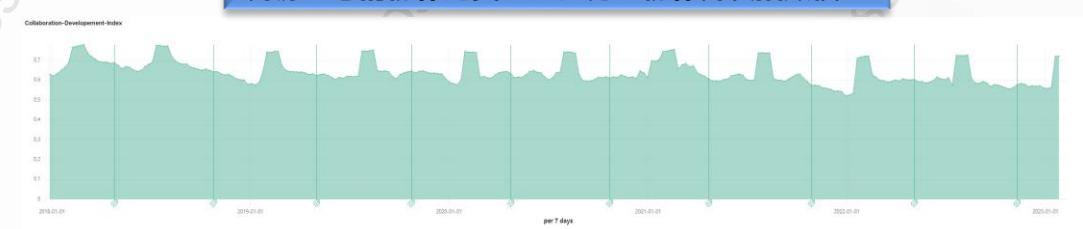
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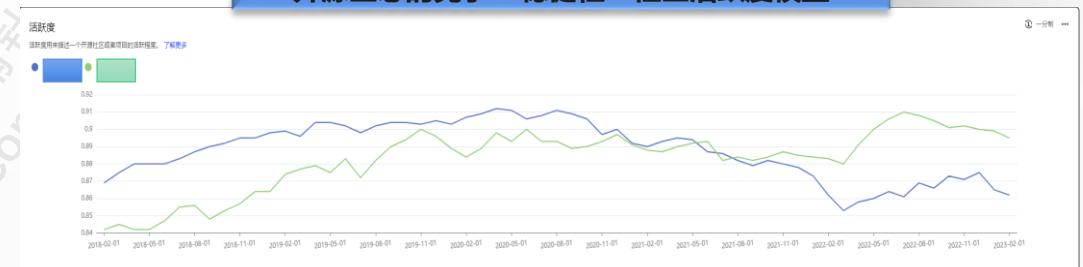
开源生态评估体系



开源生态的协作之美 - 生产力: 协作开发指数模型



开源生态的竞争 - 稳健性: 社区活跃度模型



如何实现 社区与开发者 价值双赢?

谁参与了社区贡献?

做了哪些类型的贡献?

参与的频度如何，是否有变化?

在哪些平台做出了贡献?

参与社区贡献的动机是什么? 如何激励更多的开发者参与贡献?

各类“事件”对开发者参与贡献的影响是什么?

开发者对社区的口碑如何?

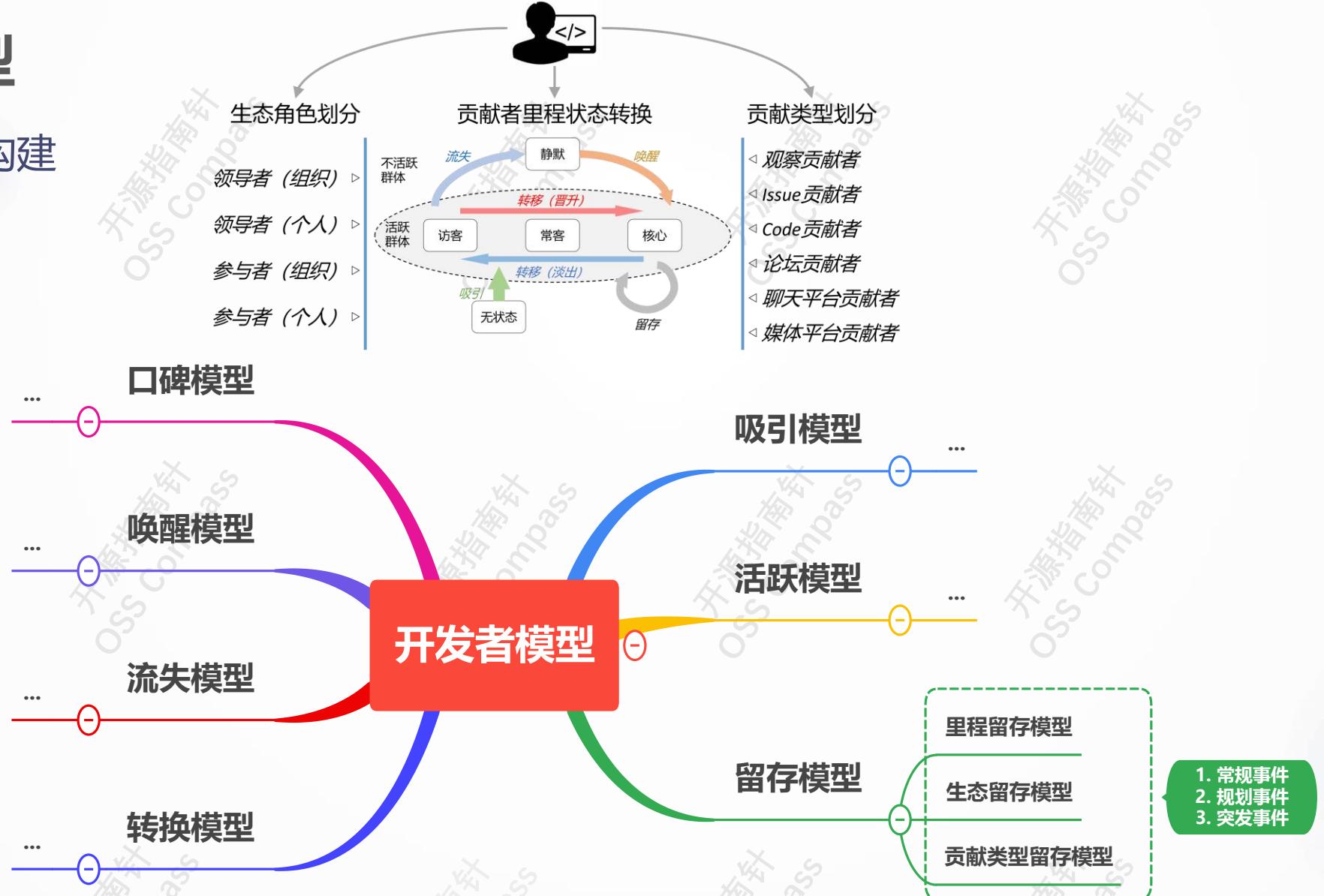
开发者模型

开发者画像的构建



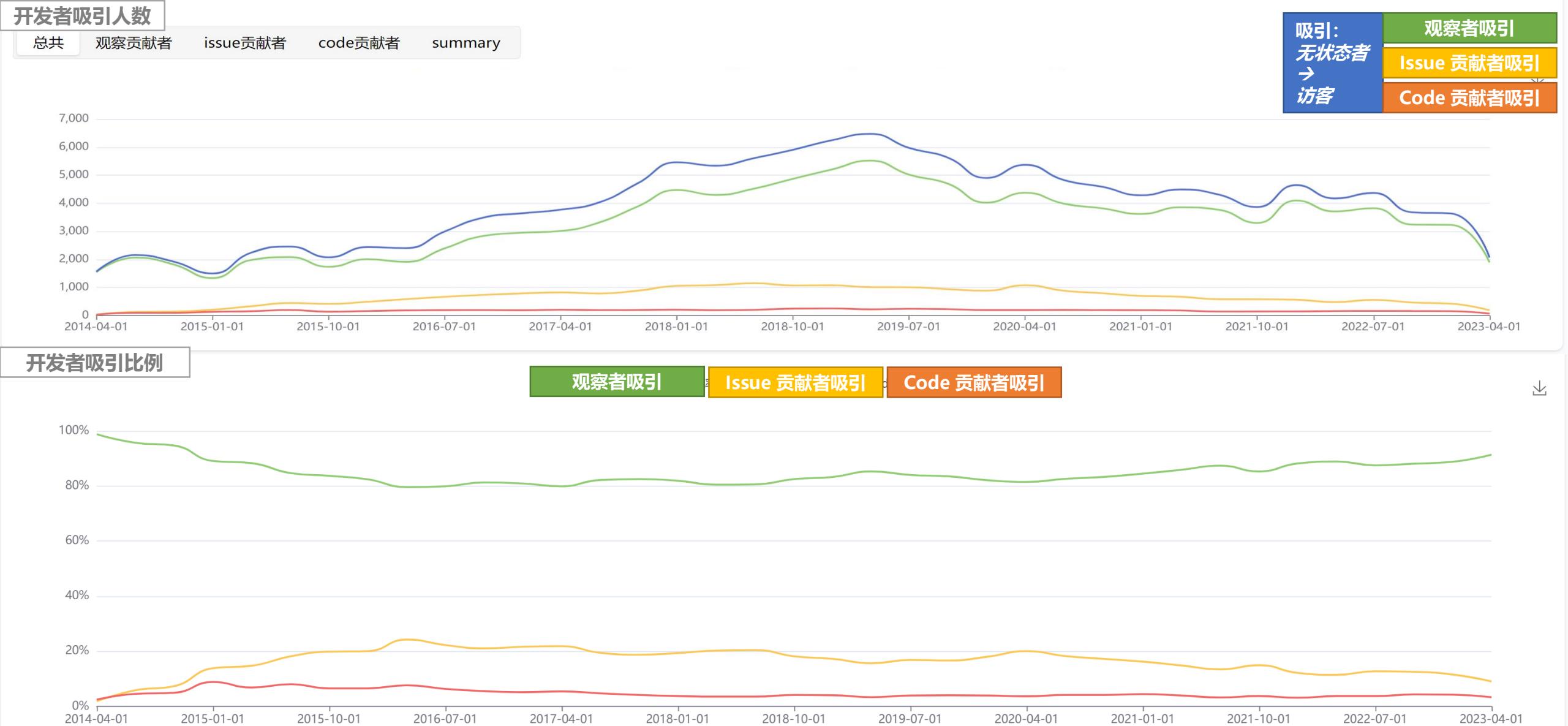
开发者模型

开发者模型的构建



开发者吸引模型

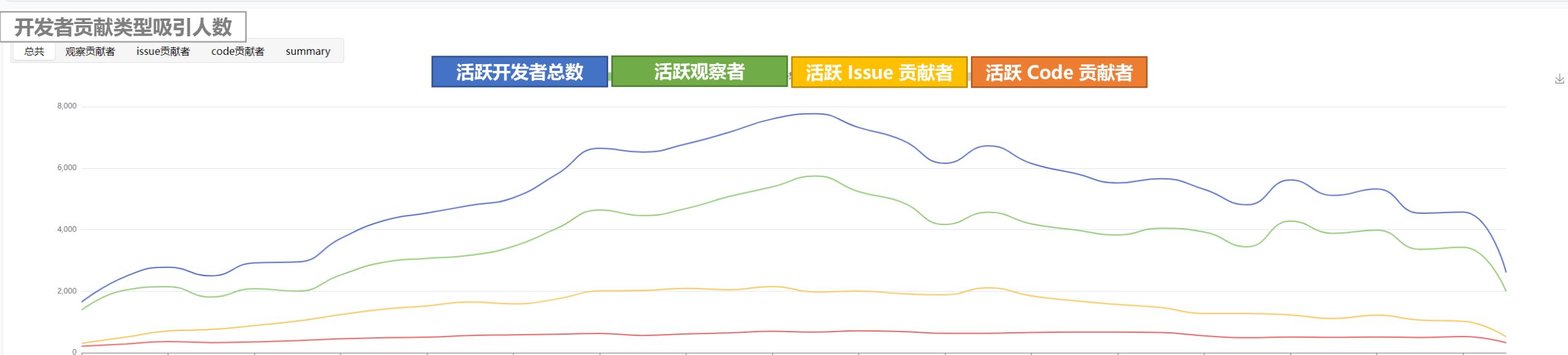
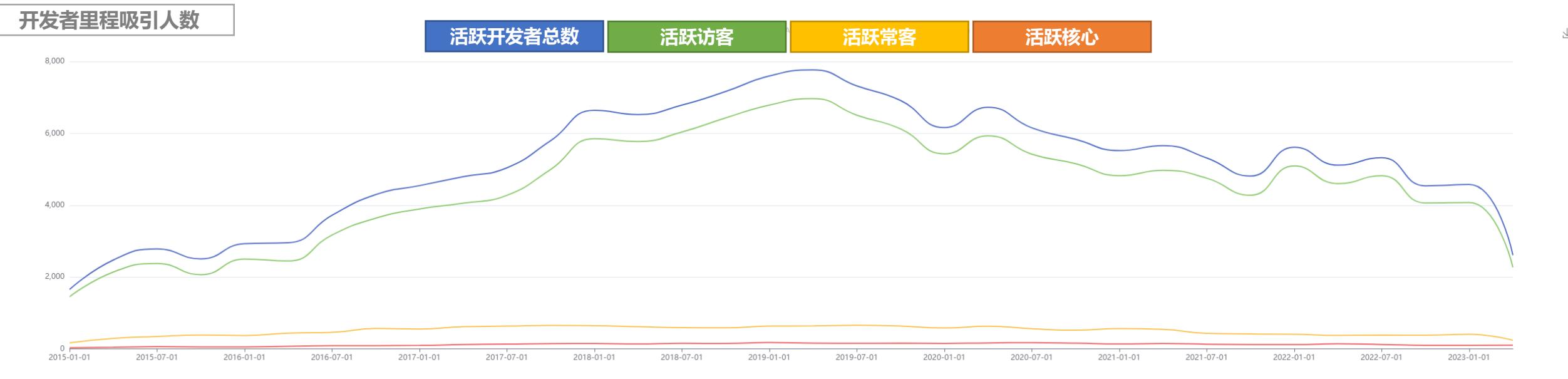
开发者里程吸引模型 & 开发者贡献类型吸引模型



开发者活跃模型

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开发者里程活跃模型 & 开发者贡献类型活跃模型

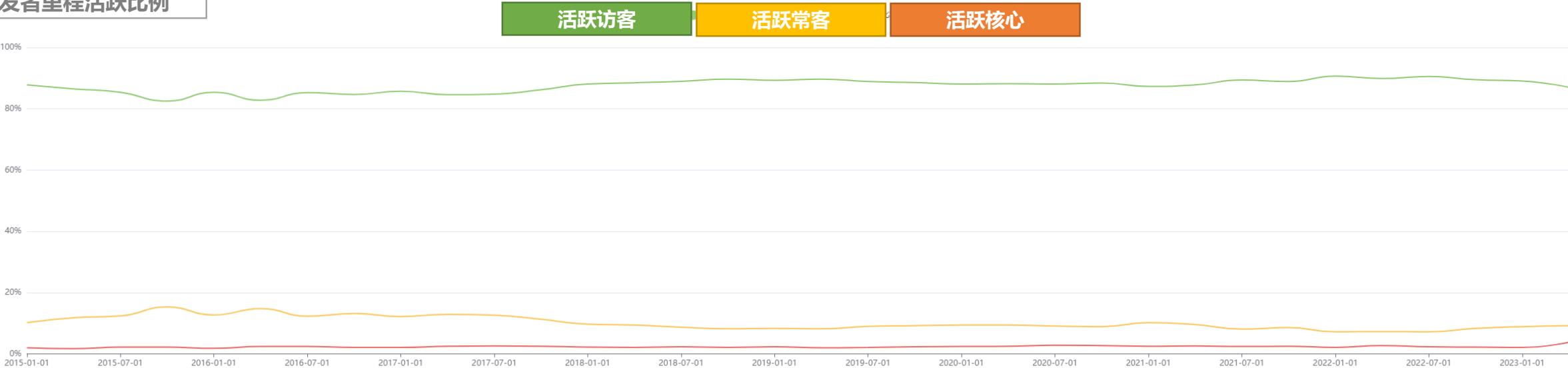


开发者活跃模型

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开发者里程活跃模型 & 开发者贡献类型活跃模型

开发者里程活跃比例

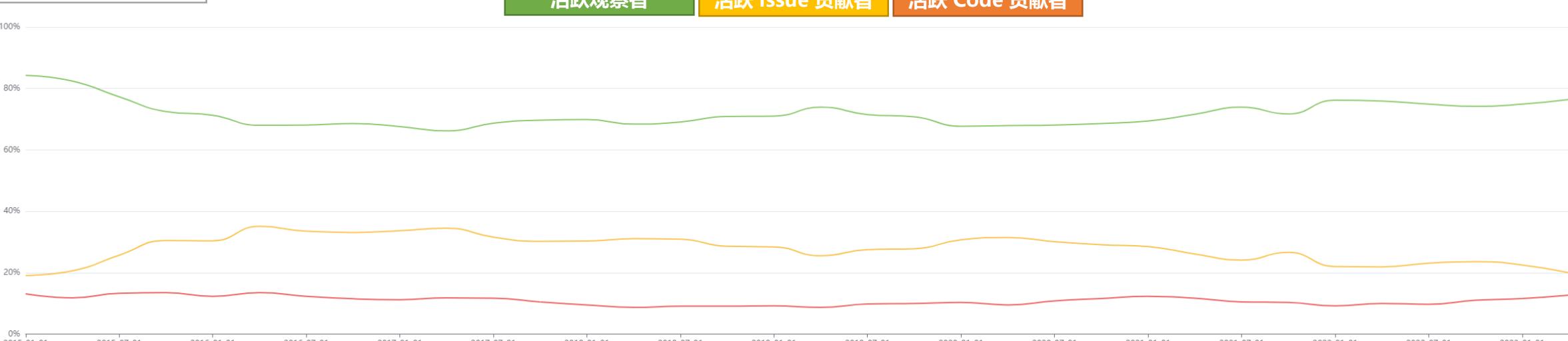


活跃访客

活跃常客

活跃核心

开发者贡献类型活跃比例



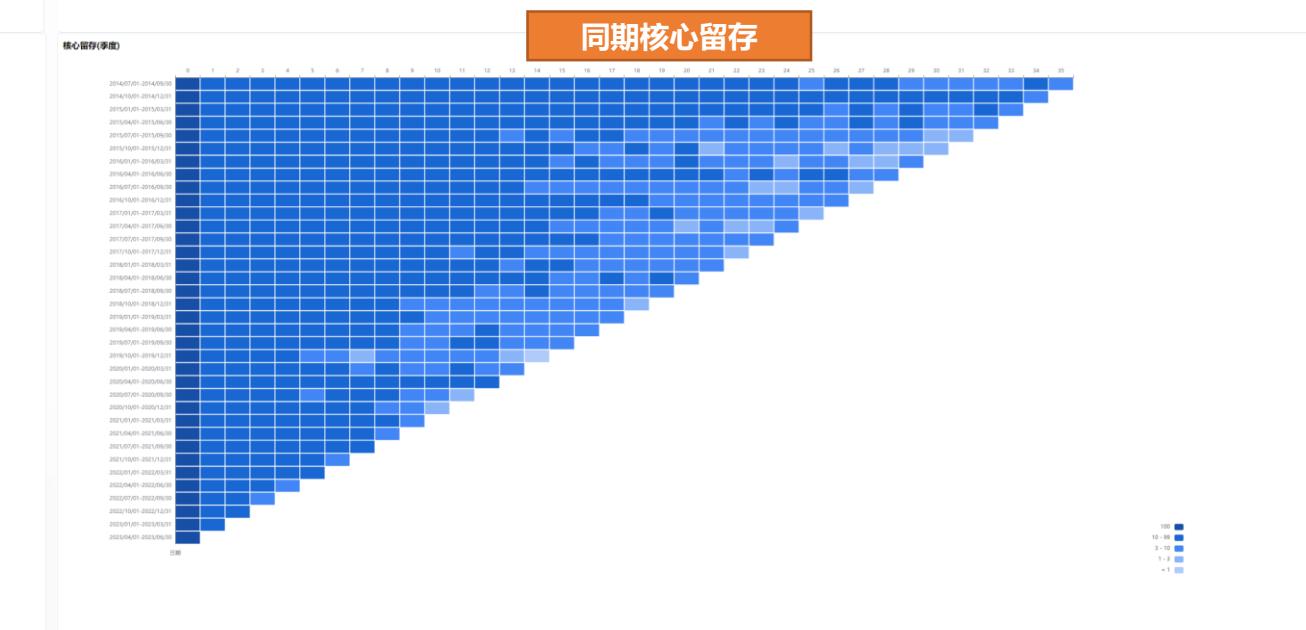
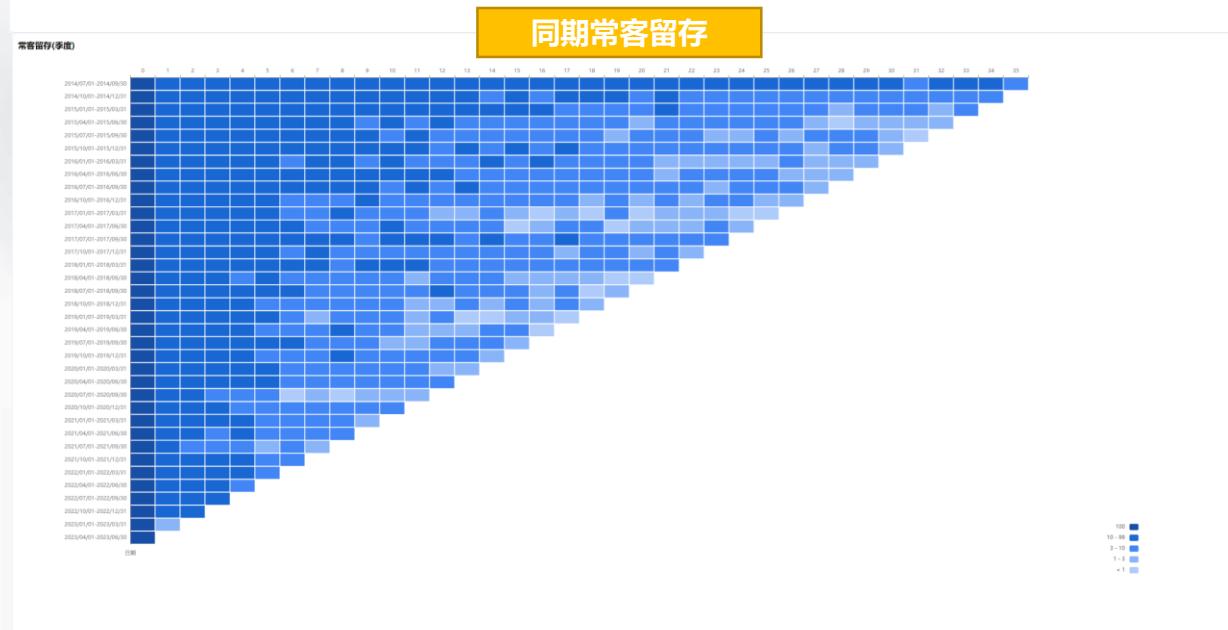
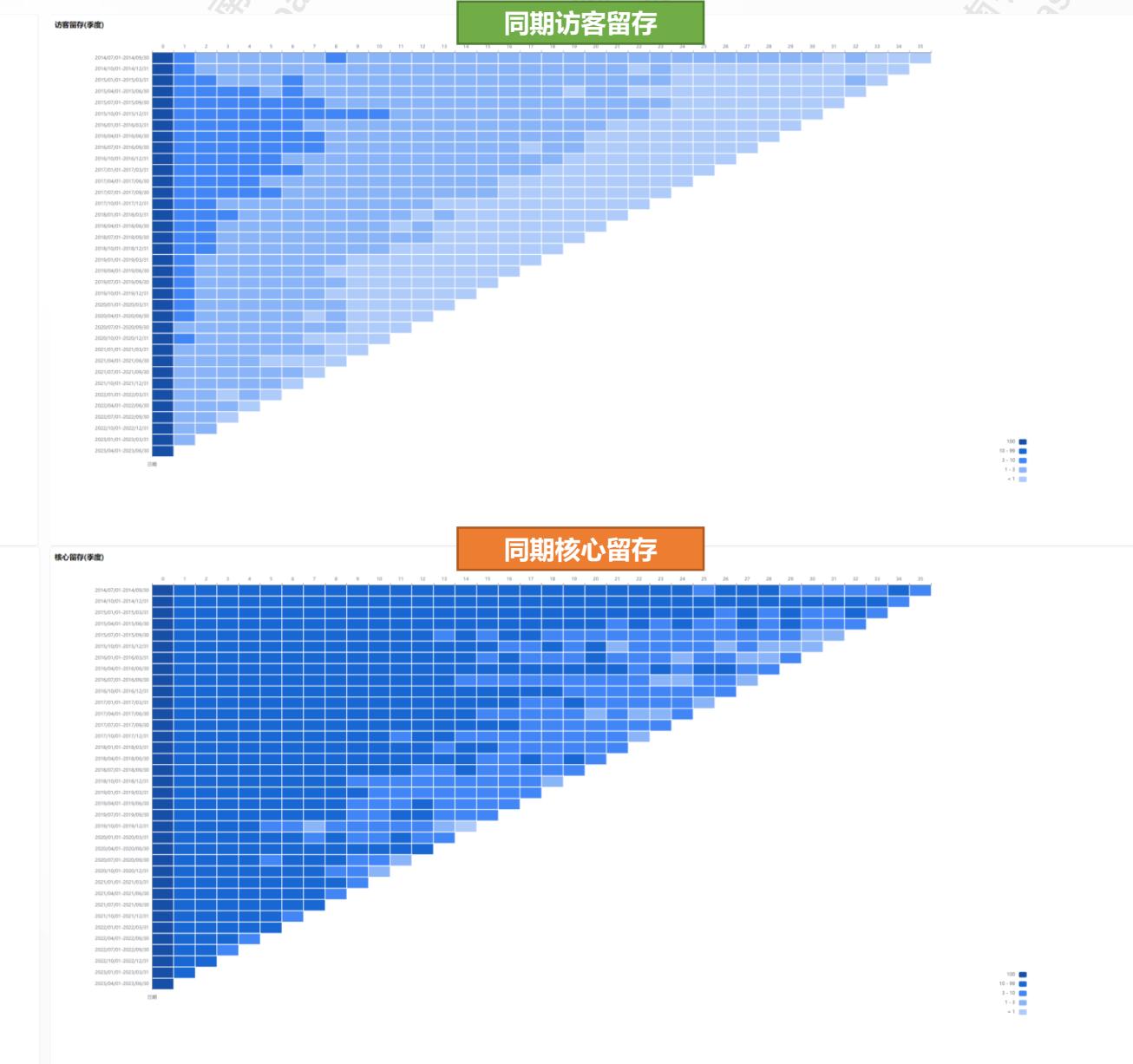
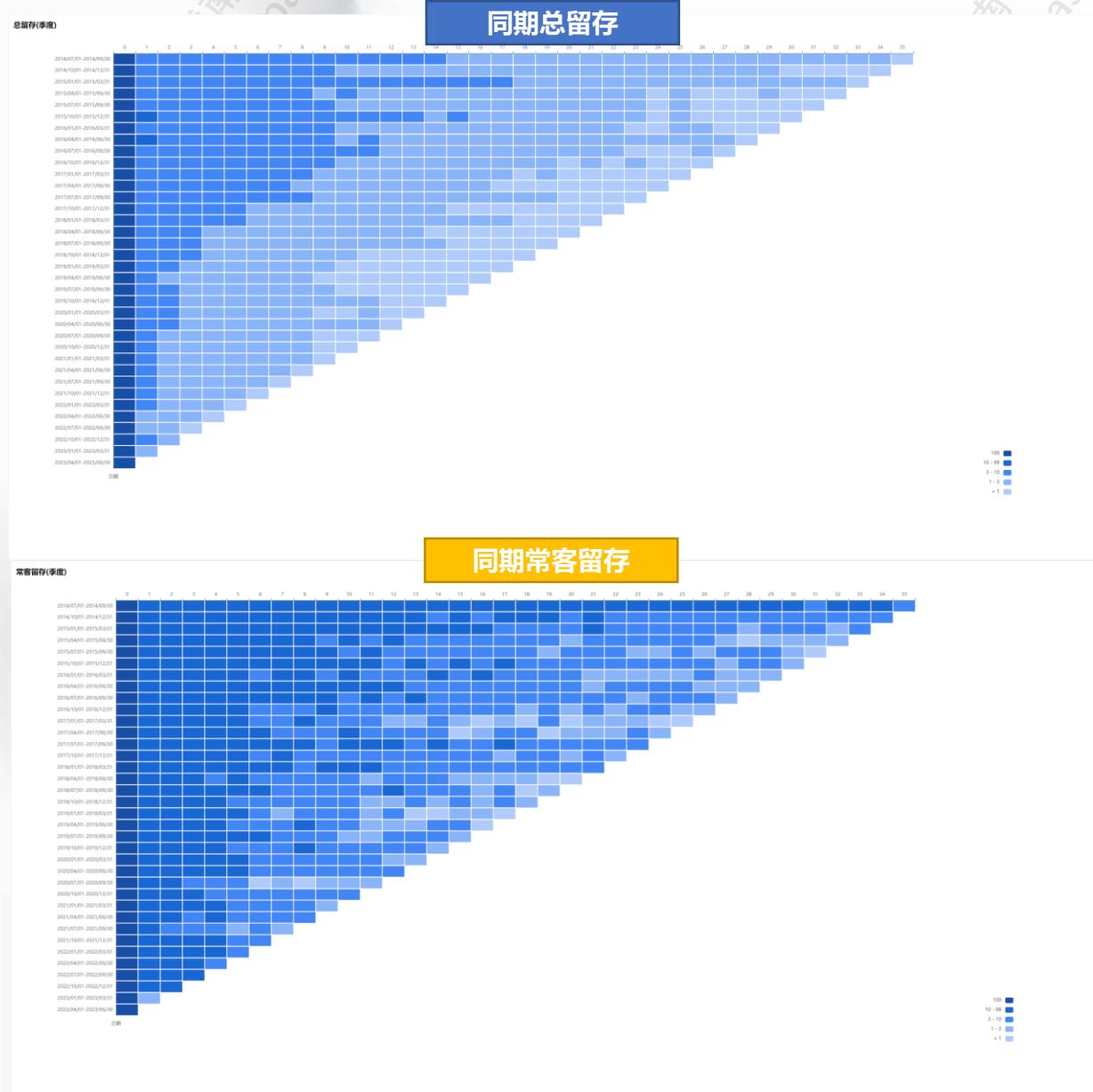
活跃观察者

活跃 Issue 贡献者

活跃 Code 贡献者

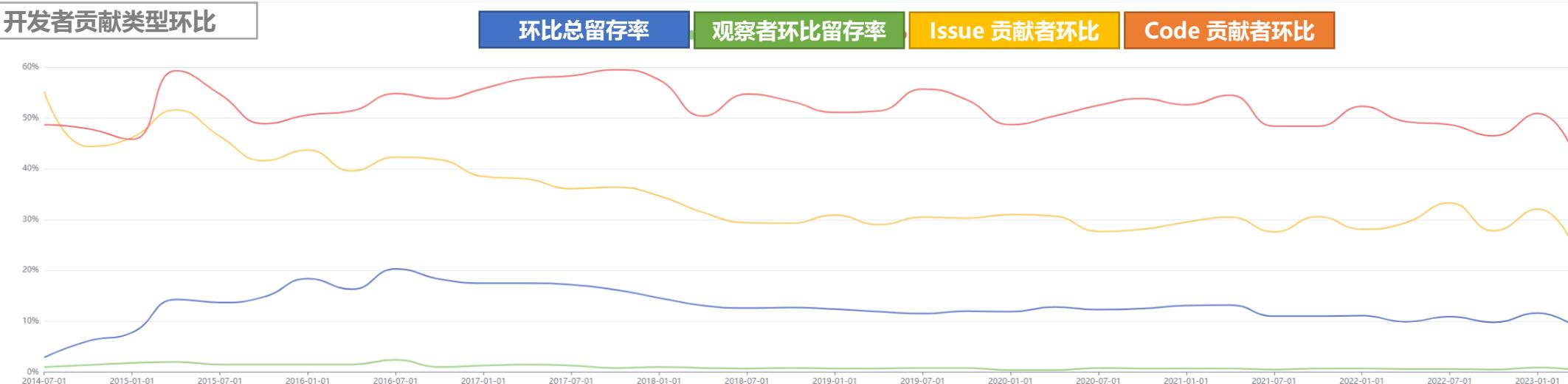
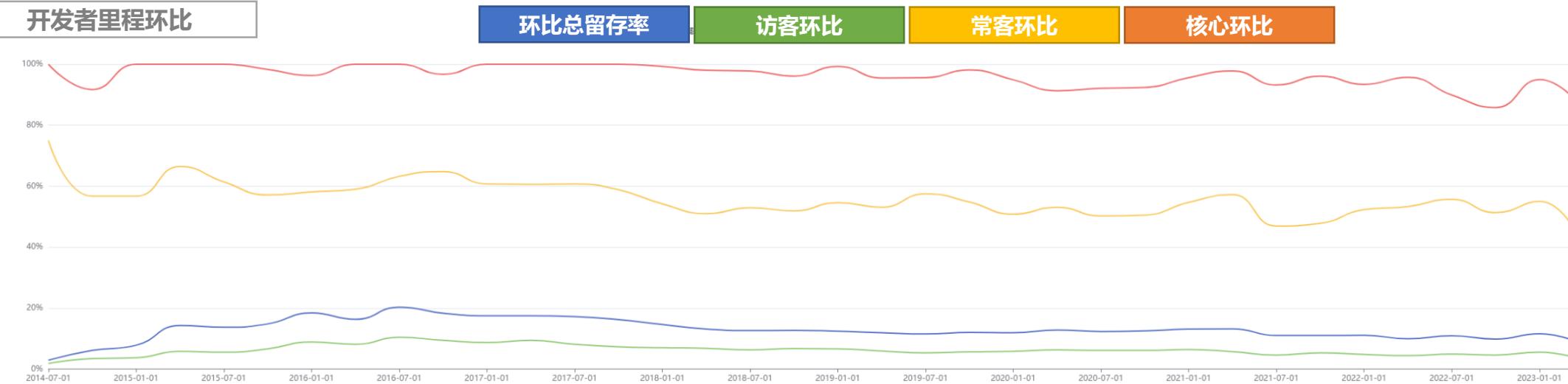
开发者留存模型

开发者里程留存模型 – 同期开发者留存



开发者留存模型

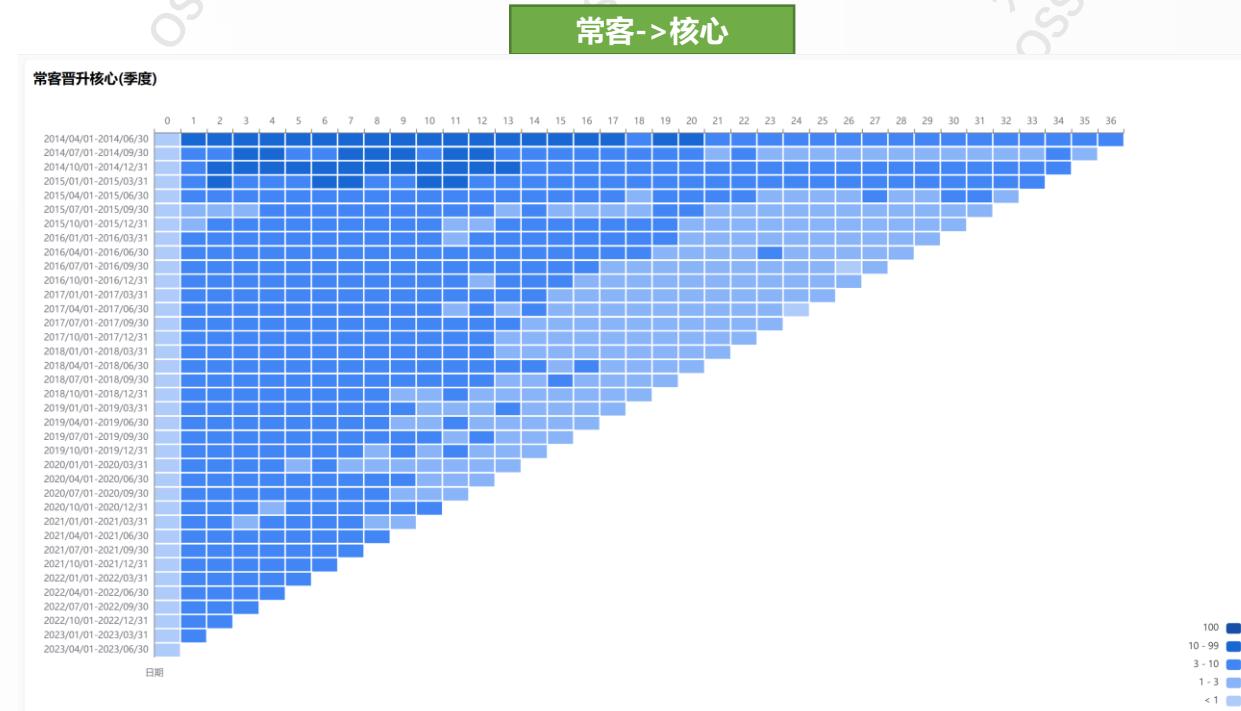
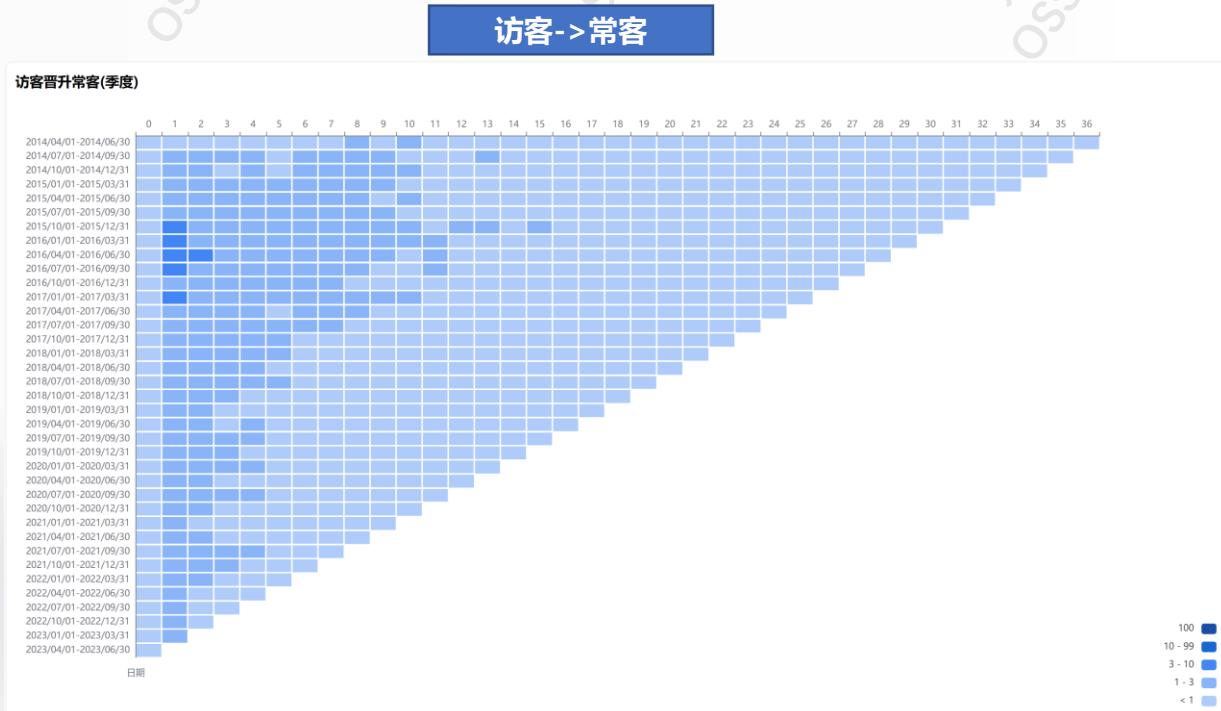
开发者里程留存模型 vs 开发者贡献类型留存模型 – 环比开发者留存



开发者转换模型

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开发者里程晋升模型 – 同期开发者晋升

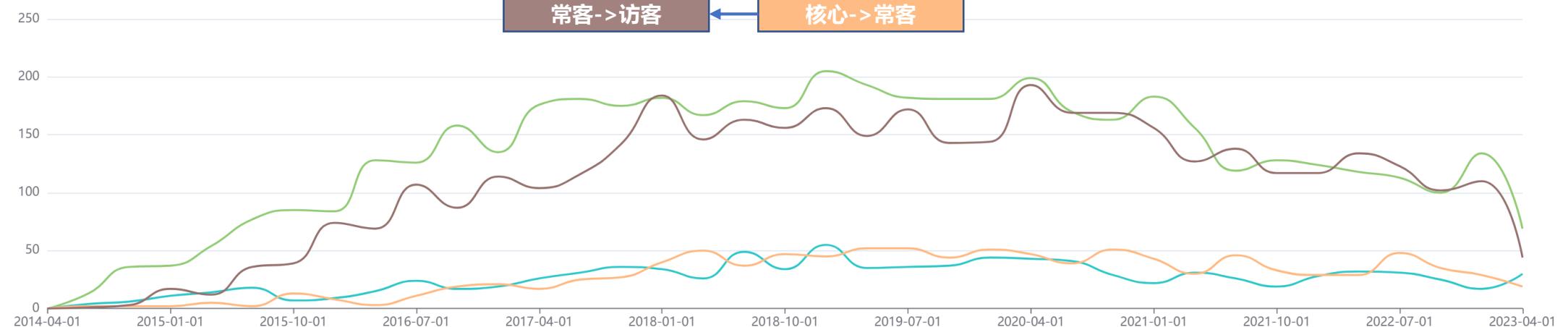
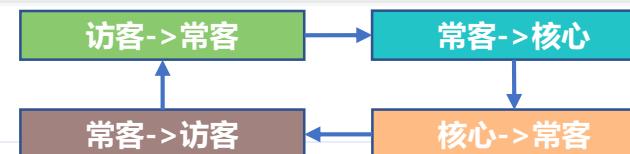
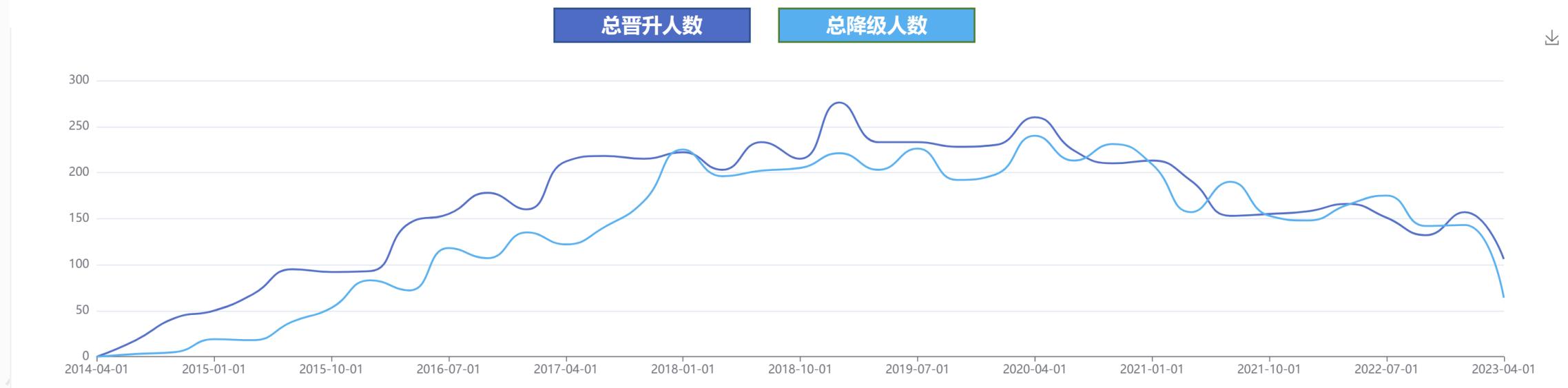


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开发者转换模型

开发者里程晋升模型 vs 开发者里程降级模型



新功能介绍

账户与订阅



扫码在线体验

国际: <https://oss-compass.org>
国内: <https://compass.gitee.com>

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The screenshot shows the OSS Compass homepage. At the top right, there is a blue speech bubble containing the text "登录" (Login). The main heading "估量有尺 开源有道" is displayed, along with a search bar and a grid of icons representing different technology domains like Artificial Intelligence, Big Data, Database, and Web.

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登录

新功能介绍

账户与订阅

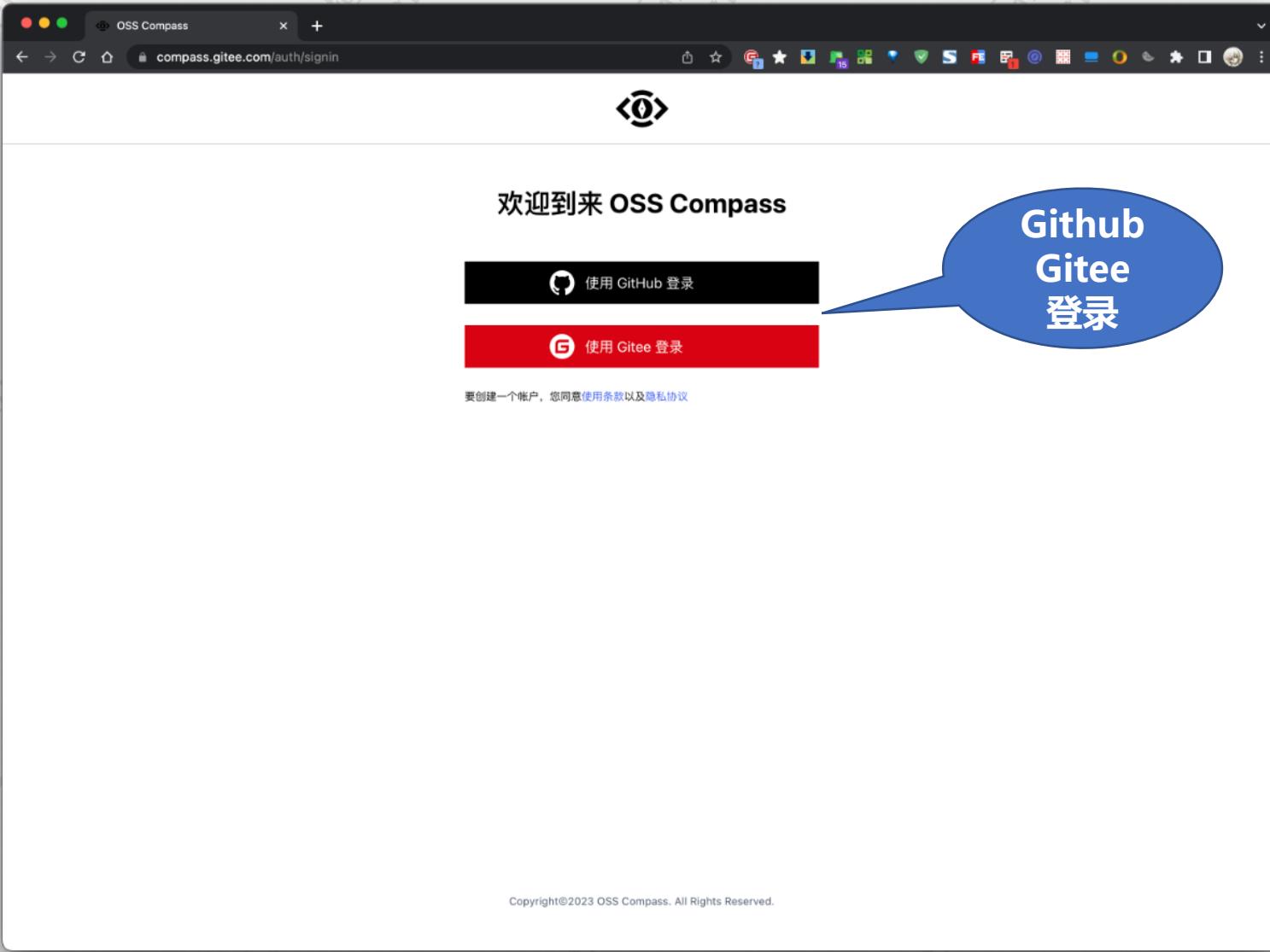


扫码在线体验

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新功能介绍

账户与订阅



扫码在线体验

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The screenshot shows the 'Account Settings' page of the OSS Compass website. At the top, there's a navigation bar with links for 'Explore', 'Assessment Model', 'Community', 'Lab', 'About', language selection ('Chinese'), and user profile. A sidebar on the right includes 'My Subscriptions', 'Account Settings' (which is highlighted with a blue oval), and a 'Logout' option. The main content area is titled 'Account Settings' and contains sections for 'User Information' and 'Third-party Binding'. In the 'User Information' section, there's a nickname input field ('Yehui Wang') and an email input field ('yehui.wang.mdh@gmail.com') which has a green 'Verified' badge. Below these are 'Save' and 'Avatar' buttons. In the 'Third-party Binding' section, there are four items: GitHub (linked to 'eyehwan'), Gitee (linked to 'eyehwan'), Slack (already bound), and WeChat (already bound). Each third-party item has a 'Unbind' button next to it. A large orange arrow points from the 'Email' input field to a callout box containing the text: 'Bind Email, Slack, WeChat to receive update notifications'. Another orange arrow points from the 'Slack' and 'WeChat' binding entries to the same callout box.

账户设置

账号设置

用户信息

昵称

头像

邮箱

已验证

保存

第三方绑定

绑定第三方账号，即可使用任何一个账户进行登录。

GitHub
eyehwan

Gitee
eyehwan

Slack
已绑定

WeChat
已绑定

解绑

解绑

解绑

解绑

绑定邮箱、Slack、微信
订阅更新消息

新功能介绍

账户与订阅



扫码在线体验

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The screenshot shows two views of the OSS Compass platform. The top view is for the project 'openharmony/build' and the bottom view is for the community 'pulumi'. Both screens feature a navigation bar with '探索', '评估模型', '社区', 'Lab', and '关于' tabs, along with language and user profile options. A prominent blue header bar contains the project name and a '已订阅 1' button. Below the header, there's a '概览' section with a chart showing metrics over time. The bottom section displays a grid of repository cards for 'pulumi' projects like 'pulumi-aws', 'tf2pulumi', and 'kubespy'. Each card includes a green line graph and a '软件制品合' button. An orange arrow points from the '已订阅 1' button in the top view to a callout box labeled '订阅项目或者社区'.

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已订阅 1

订阅项目或者社区

新功能介绍

账户与订阅



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The screenshot shows the OSS Compass website's 'My Subscriptions' section. At the top, there is a navigation bar with links for '探索', '评估模型', '社区', 'Lab', '关于', '中文', and a '提交项目' button. A user profile icon is also present. The main content area has a blue background with abstract shapes and features the title '我的订阅'. Below this, there is a table listing four projects:

项目	状态	最后更新	操作
pulumi community	分析中		取消订阅
build openharmony		更新于 2023-05-18	取消订阅
ash community	分析中		取消订阅
chromium chromium	分析中		取消订阅

新功能介绍

Compass Lab 与 Compass Hub

- Compass Lab: 通过开放数据集、指标模块与模型算法，提供模型创新；
- Compass Hub: 面向社区、OSPOs、基金会和研究机构的一个开放的、可定制的社区治理平台；



扫码在线体验

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CHAOS & COMPASS

The screenshot shows the OSS Compass website with the 'Compass Lab' section highlighted. The page includes a brief introduction, a 'Create Model' button, and a list of projects using a 'Starter Project Health Metrics Model'. A sidebar on the right provides a step-by-step guide for creating a model.

Compass Lab

Compass Lab is a sandbox that helps people quickly create and validate metrics models of their interest, which can be used for proprietary domain evaluations or as general models. It provides over 20,000 open-source project datasets from over 200 categories, 100+ CHAOS metrics, and custom algorithms to promote continuous...

创建一个模型 了解更多 →

Robustness

Starter Project Health Metrics Model

This metrics model is designed to help people get started with four key project health metrics that they can expand on and customize to meet their unique needs later. 了解更多

讨论

数据集 Deep Learning Frameworks Container Technology

数据集中的 10 个项目在使用这个模型 勾选对比

tensorflow	pytorch	mindspore
tensorflow	pytorch	mindspore
Deep Learning...	Deep Learning...	Deep Learning...
Paddle	onnx	kubernetes
PaddlePaddle	onnx	kubernetes
Deep Learning...	Deep Learning...	Container Technology
podman	minikube	rancher
containers	kubernetes	rancher
Container Technology	Container Technology	Container Technology
moby		
moby		
Container Technology		

在5分钟内创建一个您自己的模型

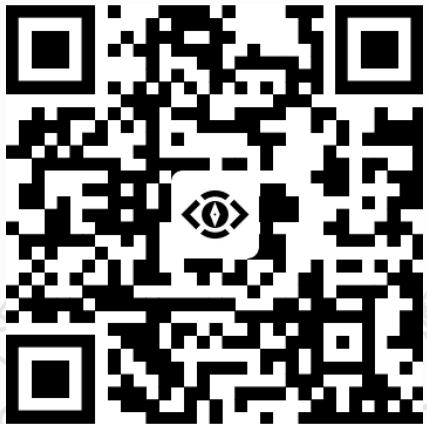
- ① 选择数据集
覆盖各领域各行业 200+ 数据集
- ② 选择度量指标
来源于CHAOS 的 100+ 度量指标
- ③ 选择算法
支持 AHP 和其他自定义的多种算法
- ④ 发布模型
公开模型, 还可以邀请伙伴们一起完善它

开始创建一个模型

新功能介绍

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Compass Lab 与 Compass Hub



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Compass Lab

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[创建一个模型](#) [了解更多 →](#)

Starter Project Health Metrics Model

This metrics model is designed to help people get started with four key project health metrics that they can expand on and customize to meet their unique needs later. [了解更多](#) [讨论](#)

数据集 Deep Learning Frameworks Container Technology

数据集中 10 个项目在使用这个模型 [勾选对比](#)

tensorflow tensorflow Deep Learning...	pytorch pytorch Deep Learning...	mindspore mindspore Deep Learning...	Paddle PaddlePaddle Deep Learning...
onnx onnx Deep Learning...	kubernetes kubernetes Container Technology	podman containers Container Technology	minikube kubernetes Container Technology
rancher rancher Container Technology	moby moby Container Technology		

在5分钟内创建一个您自己的模型

- ① 选择数据集
覆盖各领域各行业 200+ 数据集
- ② 选择度量指标
来源于CHAOSS的 100+ 度量指标
- ③ 选择算法
支持 AHP 和其他自定义的多种算法
- ④ 发布模型
公开模型，还可以邀请伙伴们一起完善它

[开始创建一个模型](#)

新功能介绍

Compass Lab 与 Compass Hub



扫码在线体验

国际: <https://oss-compass.org>

国内: <https://compass.gitee.com>

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在5分钟内创建一个您自己的
模型

- ① 选择数据集
覆盖各领域各行业 200+ 数据集
- ② 选择度量指标
来源于CHAOSS的 100+ 度量指标
- ③ 选择算法
支持 AHP 和其他自定义的多种算法
- ④ 发布模型
公开模型，还可以邀请伙伴们一起完善它

开始创建一个模型

新功能介绍

Compass Lab 与 Compass Hub



扫码在线体验

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The screenshot shows the 'Create a model in Lab' page of the OSS COMPASS website. At the top, there's a navigation bar with links for Explore, Metrics Models, Community, Lab, About, and a language switch to EN. A 'Submit your project' button is also present. The main area has a yellow header with the text 'Create a model in Lab' and a folder icon. Below this, there are three steps: 1. 选择数据集 (Select Dataset) with options for Deep Learning Frameworks (12 projects selected), Container Technology (8 projects selected), and Browser Engine (2 projects selected). 2. 选择度量指标 (Select Metrics) with an option for Code Contributor Count (Pull Request). 3. 选择算法 (Select Algorithm) with two radio button options: '系统推荐算法' (System Recommended Algorithm) and '自定义算法' (Custom Algorithm). Under 'Custom Algorithm', it says '手动设置度量指标的权重, 所有权重值相加应为 100' (Manually set the weight of metric indicators, the sum of weights should be 100). There are input fields for Code Contributor Count (weight 25), Commit Frequency (input weight), Is Maintained (input weight), Commit PR Linked Ratio (input weight), PR Issue Linked Ratio (input weight), Code Review Ratio (input weight), Code Merge Ratio (input weight), and Lines of Code Frequency (input weight). A note at the bottom says '提示: 对度量指标的权重计算有更多想法, 欢迎进入官方 Slack 社区与我们讨论。' (Tip: If you have more ideas for calculating metric indicator weights, welcome to enter the official Slack community to discuss with us.) A 'Submit' button is at the bottom.

新功能介绍

Compass Lab 与 Compass Hub



扫码在线体验

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The screenshot shows the OSS Compass interface for creating a model in the Lab. It consists of two main panels: a left panel for selecting datasets and a right panel for selecting metrics.

第一步：选择数据集

The left panel displays a list of categories under "Add dataset": Deep Learning Frameworks (16/16), Container Technology (8/10), API Management (0/13), Backend-as-a-Service (0/13), Chaos Engineering (0/13), ChatGPT (0/13), Cloud Native Storage (0/13), Compression & Decompression (0/13), Continuous Integration Tools (0/13), Dependency Management (0/13), Expression Engine (0/13), and Chaos Engineering (0/13). A modal window titled "Add dataset" is open, showing the same list with checkboxes next to each category. A "Submit" button is at the bottom of the modal.

第二步：选择指标集

The right panel displays a list of categories under "Add metrics": Pull Request (8/11), Issue (0/12), Repo (0/10), and Git (0/8). A modal window titled "Add metrics" is open, showing the same list with checkboxes next to each metric. A "Submit" button is at the bottom of the modal.

A sidebar on the right lists "Deep Learning Frameworks" with several items checked, such as "compass-web-demo" and "next-learn". A "Save and back" button is at the bottom of this sidebar.

新功能介绍

Compass Lab 与 Compass Hub



扫码在线体验

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国内: <https://compass.gitee.com>

第三步：选择算法

Create a model in Lab

Please name your model:

Select Dataset:

- Deep Learning Frameworks (12 projects selected)
- Container Technology (8 projects selected)
- Browser Engine (2 projects selected)

Select Metrics:

- Code Contributor Count (Pull Request)

Select Algorithm:

- Custom Algorithms (selected)

Manually set weights for metrics, all weight values should add up to 100.

Code Contributor Count	25	Commit Frequency	25	Weight
Is Maintained	Weight	Commit PR Linked Ratio	25	Weight
PR Issue Linked Ratio	Weight	Code Review Ratio	25	Weight
Code Merge Ratio	Weight	Lines of Code Frequency	25	Weight

Tip: If you have more ideas about the weight calculation of metrics, welcome to enter the official Slack community to discuss with us.

Submit

第四步：发起协作

My Lab / Internet of Vehicles Industry Model / Invite

Please enter the email address to invite:

Dora	can edit	remove
Noel	can edit	remove
Jack	can view	remove
Lily	can view	remove
Lew	can view	remove

Submit your project

OSS COMPASS Explore Metrics Models Community Lab About

WebKit/webkit

Paddle

Starter Project Health

PR Time To Close

PR Time To First Response

PR Time To Close

Metric Model Discussion

PR Time To Close

PR - Issue Linked Ratio

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新功能介绍

Compass Lab 与 Compass Hub



开源指南针

微信扫描二维码，关注公众号

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新功能介绍

项目二级分类



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感谢 Checode 奇科厚德 与 OSS-Compass 的通力协作

OSS COMPASS

探索 评估模型 社区 Lab 关于 中文 提交项目

分类

深度学习框架 8 个仓库

勾选对比

框架	仓库	状态
tensorflow	tensorflow	√
pytorch	pytorch	↑
mindspore	mindspore	↔
Paddle	PaddlePaddle	↑
CNTK	microsoft	↑
keras	keras-team	↑
mxnet	apache	↔
onnx	onnx	↑

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