如何参与到开源项目中：以SymPy项目为例

大纲

- SymPy简介
- 了解贡献要求：查看SymPy贡献须知
- 了解交流途径：查看SymPy的mailing list和gitter社区

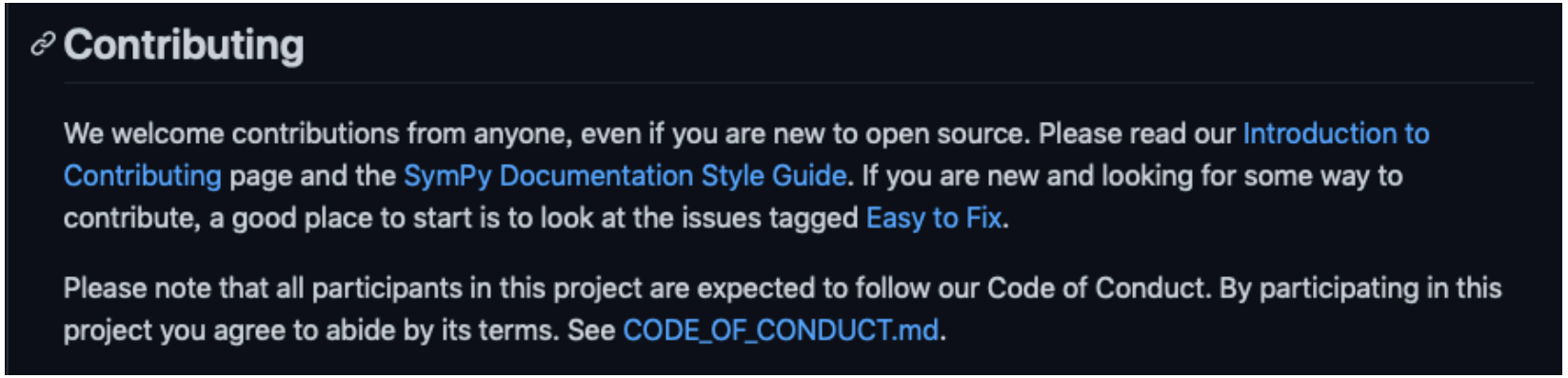
SymPy简介

- SymPy是python的一个科学计算库，用一套强大的符号计算体系完成诸如多项式求值、求极限、解方程、求积分、微分方程、级数展开、矩阵运算等等计算问题
- 主页：https://github.com/sympy/sympy
- 选择SymPy的原因：
  - Python是比较热门的语言
  - SymPy有完善的贡献要求文档和活跃的社区，贡献更加容易
  - SymPy支持Good First Issue机制，容易找到适合新人解决的问题

- 可以通过 https://goodfirstissue.dev/ 找到支持Good First Issue机制的项目

SymPy简介

- 从项目的README文件中，可以看到关于SymPy安装、使用的一些基本信息。除此之外，能看到为SymPy进行贡献相关的一些资料链接，如贡献须知 Introduction to Contributing, 文档风格指引 SymPy Documentation Style Guide，还有行为守则 CODE_OF_CONDUCT.md

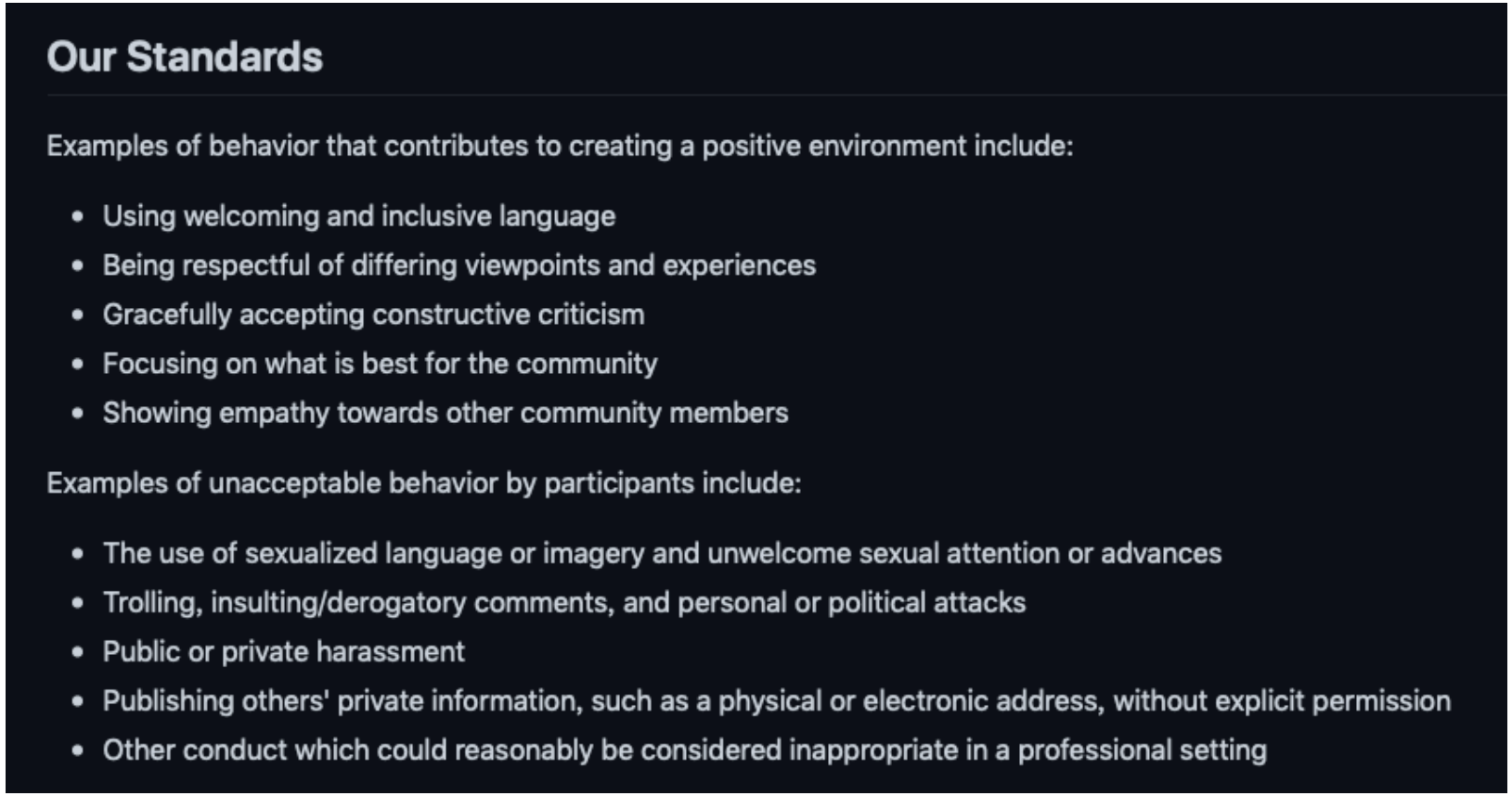


了解贡献要求

- 贡献须知 Introduction to Contributing 中，介绍了想要为SymPy做贡献，所需要提前做的功课
  - 熟悉SymPy的功能、代码结构（通过教学文档、wiki、相关文献、浏览代码等方式）
  - 阅读SymPy社区的行为守则
  - 参加SymPy社区（邮件列表，Gitter等）
  - 一些建议（如，从简单的“Easy to fix” issue入手等）

了解贡献要求

- 行为守则中规定了贡献的一些行为准则



Our Standards

Examples of behavior that contributes to creating a positive environment include:

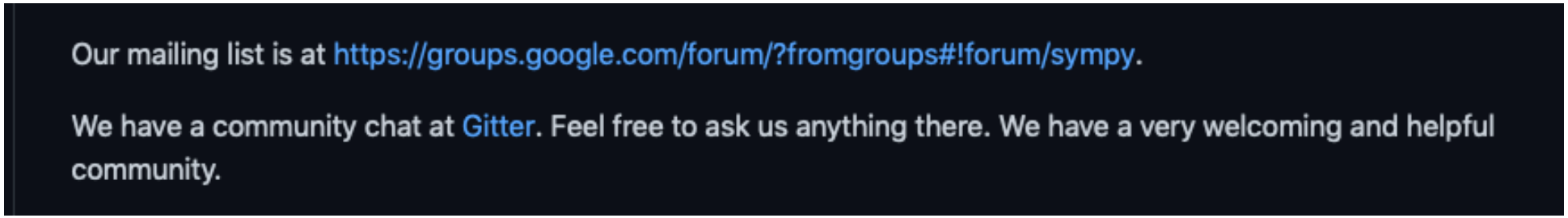
- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

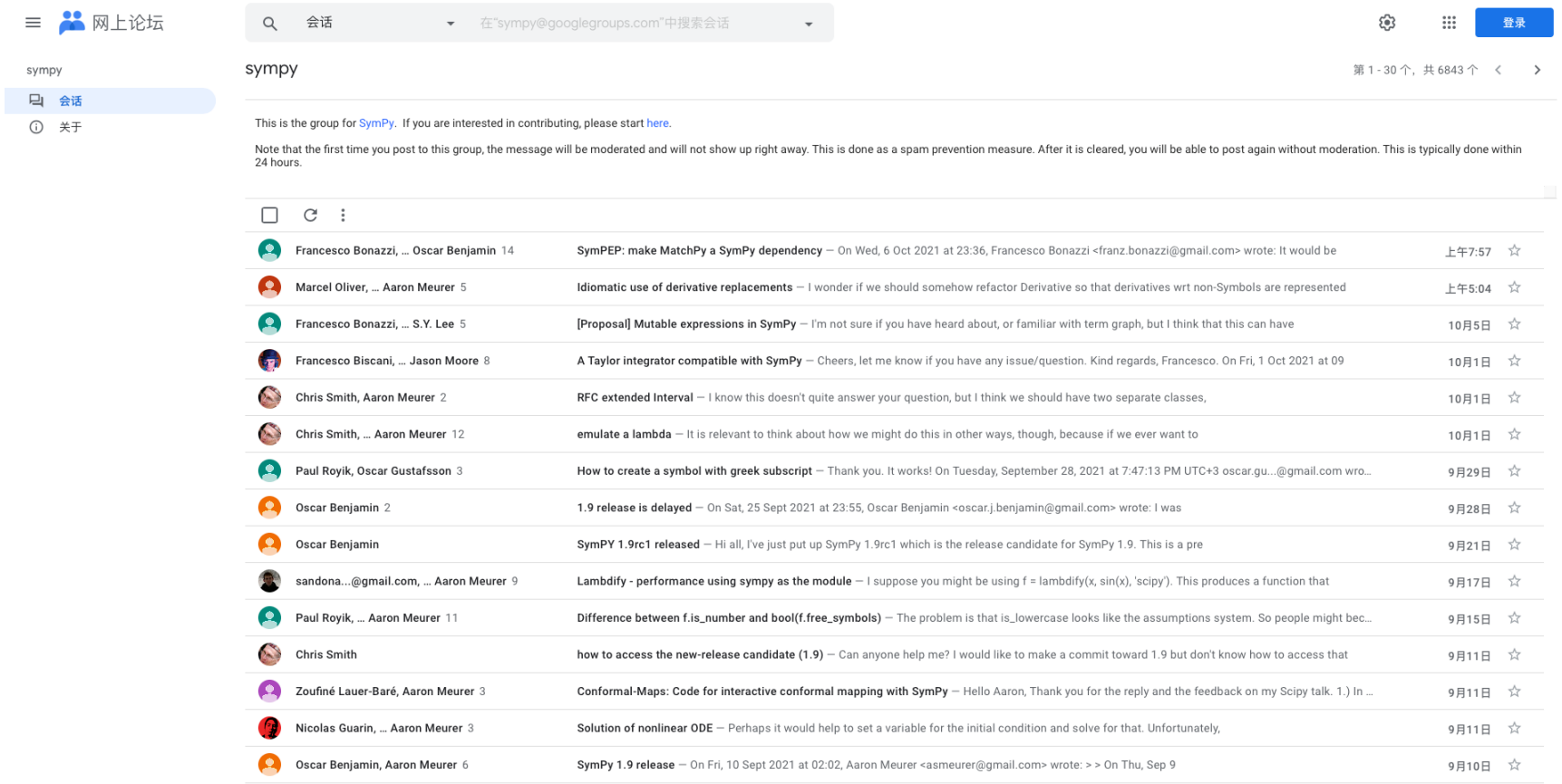
了解交流途径

- 从SymPy项目的README.md和贡献须知中，都可以看到SymPy项目开发者的交流方式主要为邮件列表mailing list和Gitter



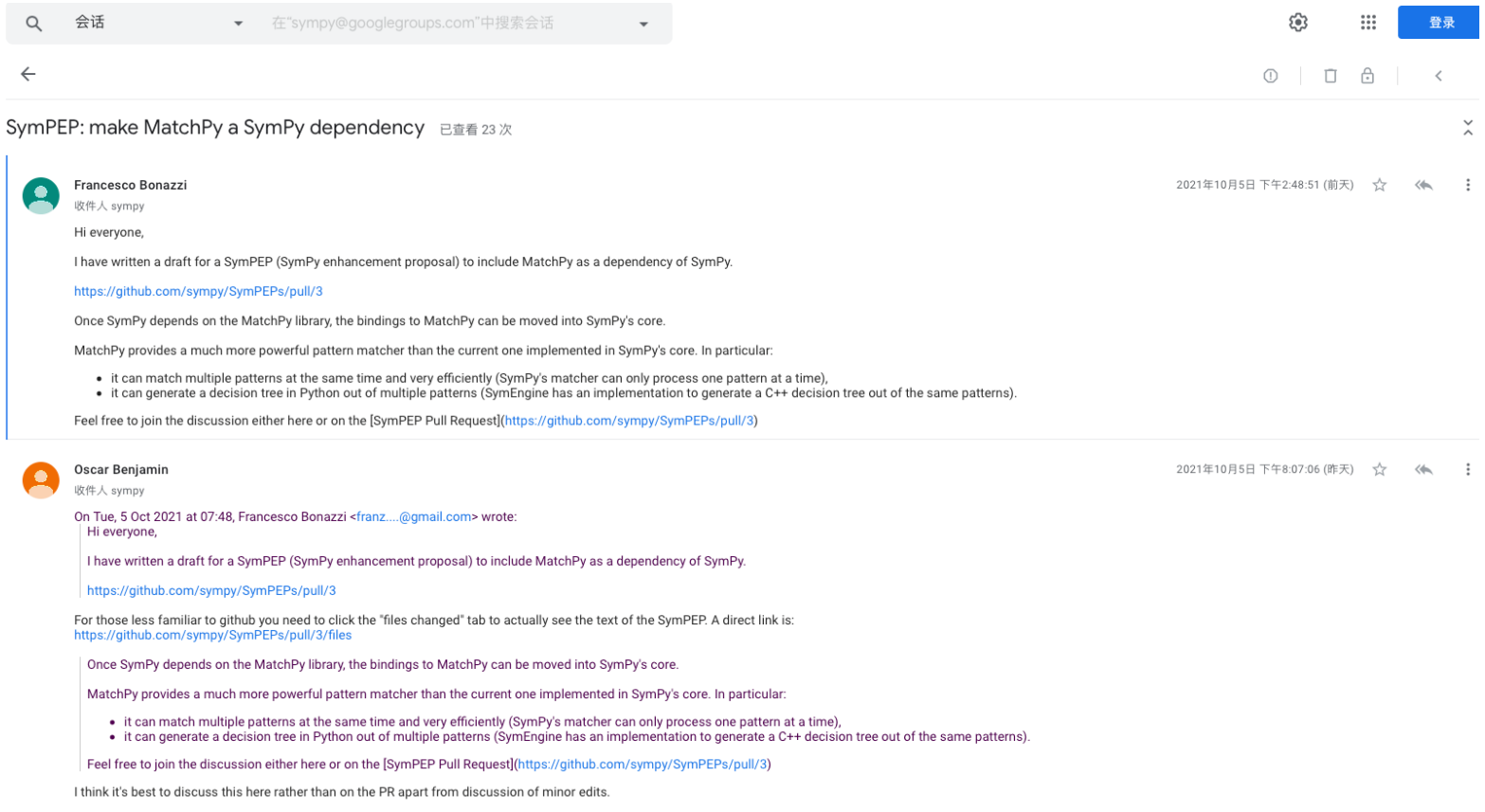
了解交流途径

- Mailing list: https://groups.google.com/g/sympy



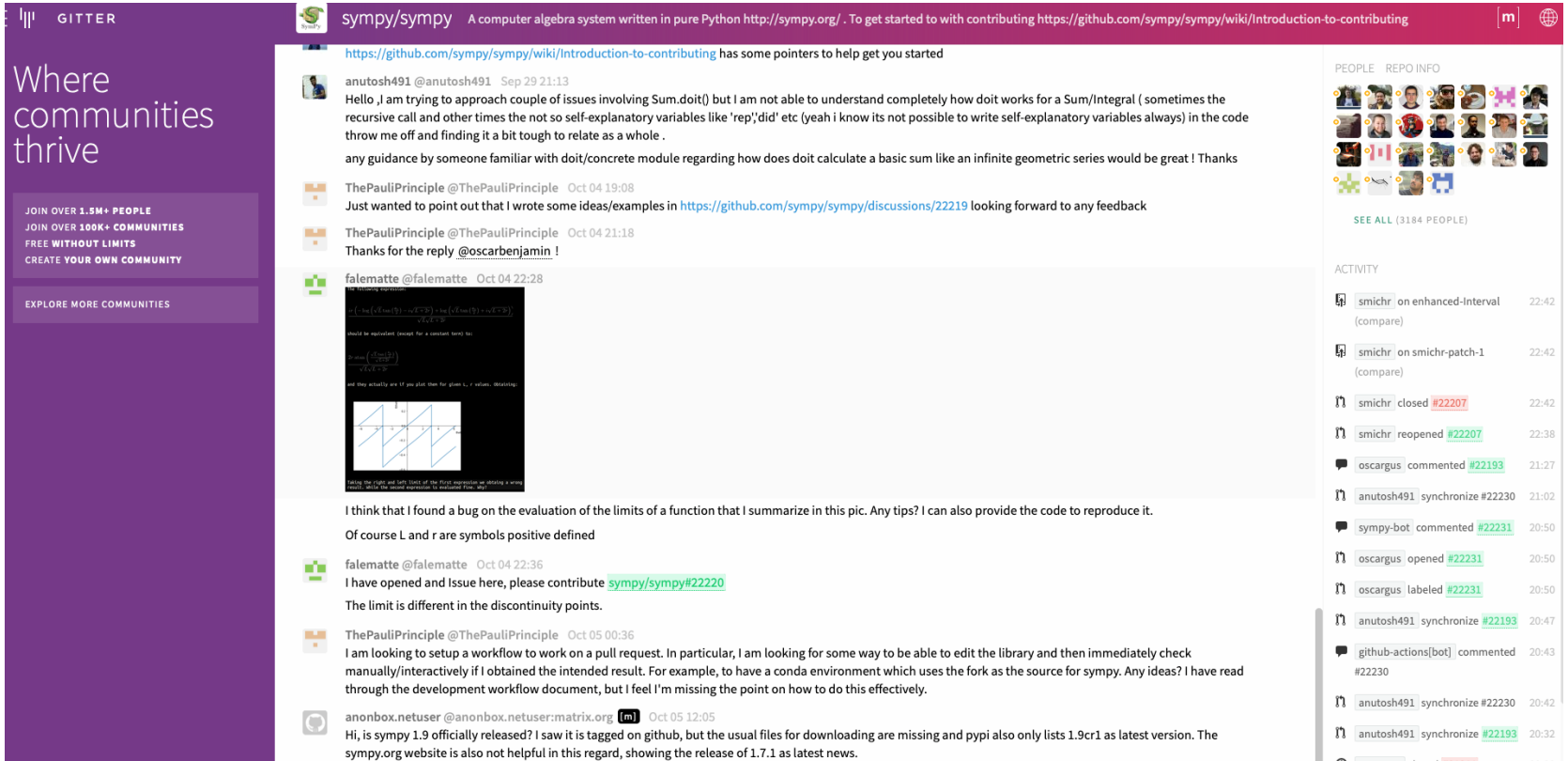
了解交流途径

- https://groups.google.com/g/sympy/c/B1jpw-DsNCk
- 开发者针对这个变更，在邮件列表中进行了激烈的讨论



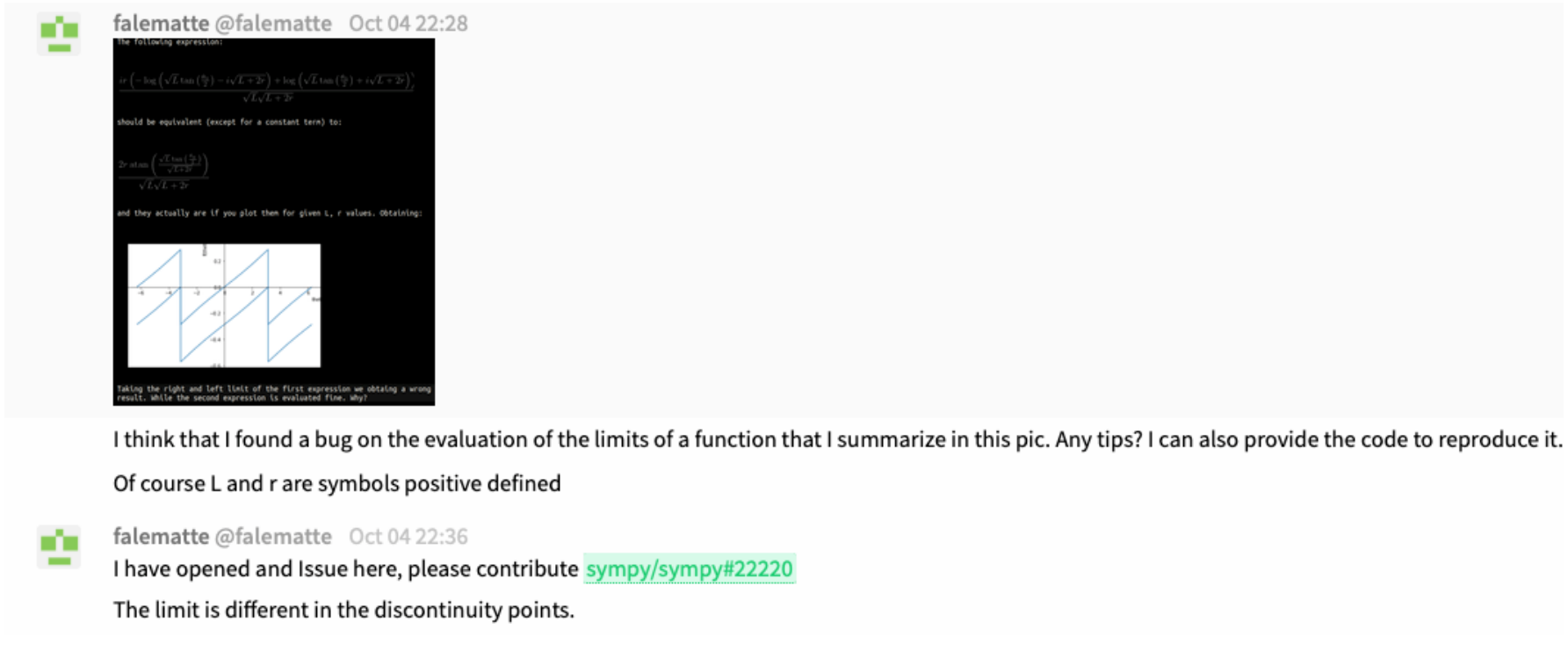
了解交流途径

- https://gitter.im/sympy/sympy
- Gitter则更开放一些，发现bug、使用SymPy有疑问都可以在上面与开发者进行交流

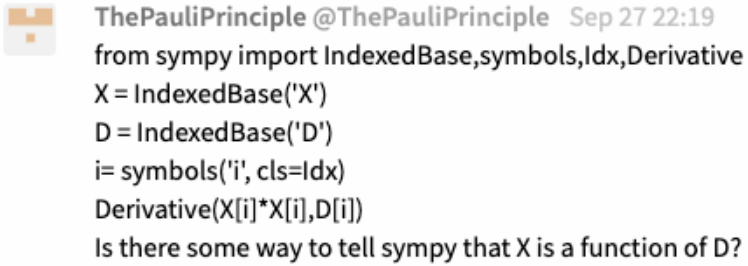


了解交流途径

- 发现bug



- 询问问题



如何做贡献

- 定位做什么
  - 如，从简单的“Easy to fix” issue入手等
  - 如，从newbie视角帮助填补入门手册
- 定位需要询问/沟通的社区对象
- 知会community我开始贡献
  - 占位issue，不然waste of effort
- 跟社区沟通和迭代
  - 告知: I’m newbie, this is the first time I contribute to OSS

End