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

∂ Contributing

We welcome contributions from anyone, even if you are new to open source. Please read our Introduction to Contributing page and the SymPy Documentation Style Guide. If you are new and looking for some way to contribute, a good place to start is to look at the issues tagged Easy to Fix.

Please note that all participants in this project are expected to follow our Code of Conduct. By participating in this project you agree to abide by its terms. See 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:

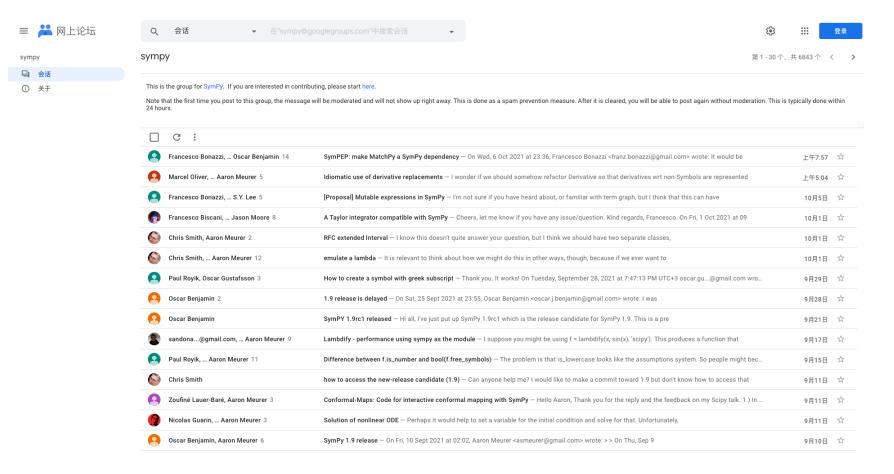
- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission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

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

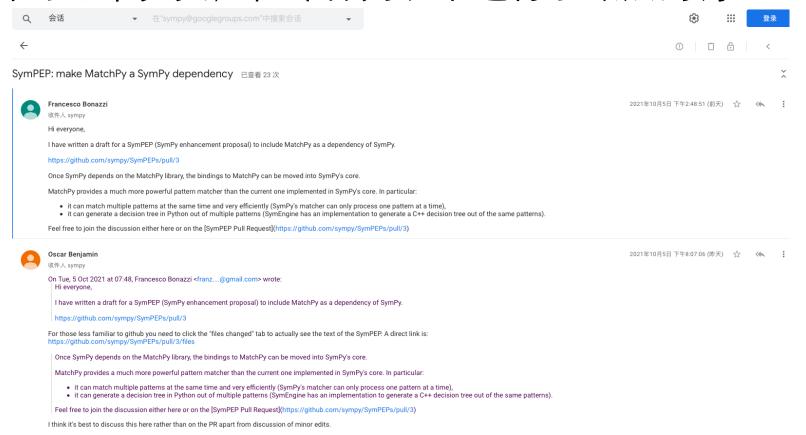
Our mailing list is at https://groups.google.com/forum/?fromgroups#!forum/sympy.

We have a community chat at Gitter. Feel free to ask us anything there. We have a very welcoming and helpful community.

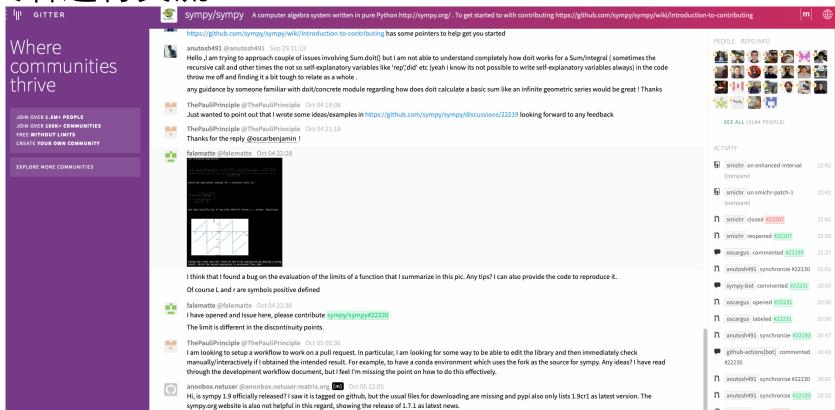
Mailing list: https://groups.google.com/g/sympy



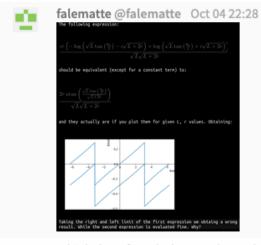
- https://groups.google.com/g/sympy/c/B1jpw-DsNCk
- 开发者针对这个变更, 在邮件列表中进行了激烈的讨论



- 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



• 发现bug



I think that I found a bug on the evaluation of the limits of a function that I summarize in this pic. Any tips? I can also provide the code to reproduce it.

Of course L and r are symbols positive defined



falematte @falematte Oct 04 22:36

I have opened and Issue here, please contribute sympy/sympy#22220

The limit is different in the discontinuity points.

• 询问问题

ThePauliPrinciple @ThePauliPrinciple Sep 27 22:19

from sympy import IndexedBase,symbols,Idx,Derivative

X = IndexedBase('X')

D = IndexedBase('D')

i= symbols('i', cls=Idx)

Derivative(X[i]*X[i],D[i])

Is there some way to tell sympy that X is a function of D?

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