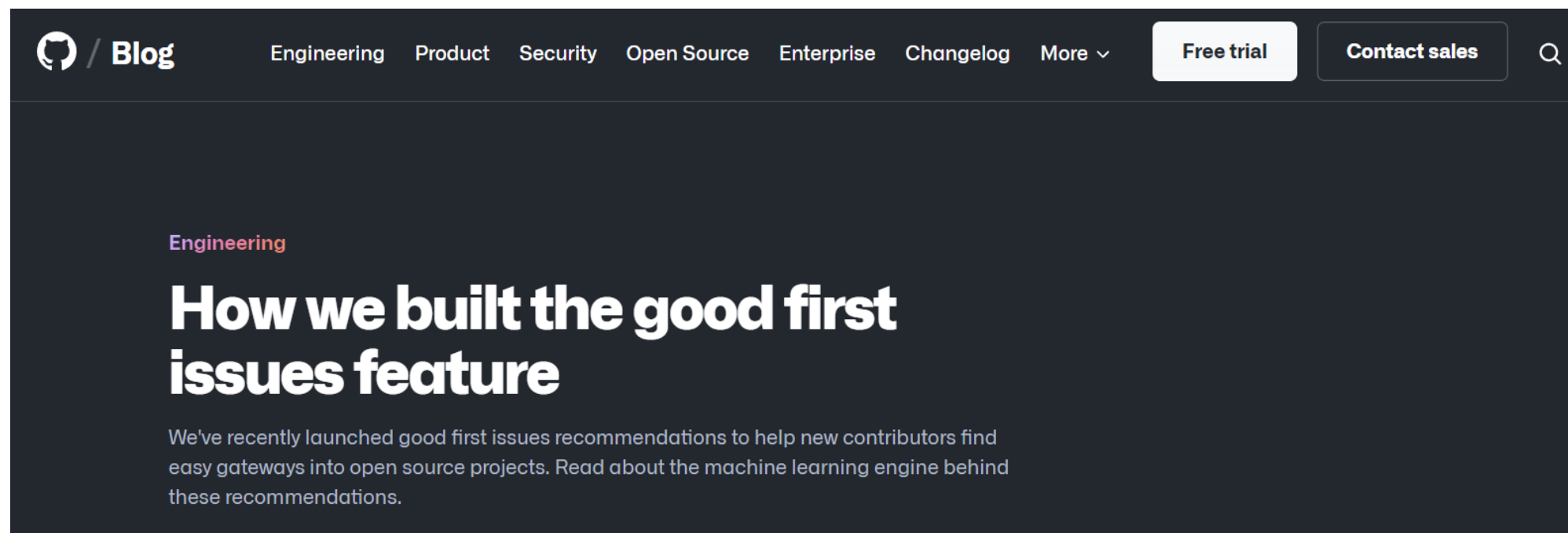


Good First Issues

Thanks to 何昊

What is a Good First Issue?

- **Good First Issue** is an initiative to curate easy pickings from popular projects, so developers who've never contributed to open-source can get started quickly
- Win-win: projects need fresh blood ⇔ newcomers need a starting point



<https://github.blog/2020-01-22-how-we-built-good-first-issues/>

How to Find Good First Issues in a GitHub Project?

Want to contribute to matplotlib/matplotlib? Dismiss

If you have a bug or an idea, read the [contributing guidelines](#) before opening an issue.
If you're ready to tackle some open issues, [we've collected some good first issues for you](#).

Filters Labels 126 Milestones 6 New issue

Clear current search query, filters, and sorts

72 Open 215 Closed

	Author	Label	Projects	Milestones	Assignee	Sort
verify quoting method in svg backend for font names Difficulty: Medium	#24080 opened yesterday by tacaswell	🔗 v3.7.0				7
No error message in matplotlib.axes.Axes.legend() if there are more l Difficulty: Medium Good first issue topic: legend	#24050 opened 5 days ago by haferburg	🔗 v3.7.0				8
Labels for PatchCollection do not show Good first issue topic: collections a	#23998 opened 9 days ago by Robotatron					11
[ENH]: Make rubber band more visible Good first issue GUI: MacOSX GUI	#23969 opened 14 days ago by komoto48g	🔗 v3.6.1				5
Simplify glyph stream logic in ps backend Difficulty: Medium Good first issue	#23965 opened 14 days ago by tacaswell	🔗 v3.7.0				2
[Bug]: set_aspect with negative argument leads to infinite loop Difficu	#23847 opened 25 days ago by jvanhoefer	🔗 v3.7.0				14

Filter by label

Filter labels

- Unlabeled
- ✓ ☒ Good first issue
Open a pull request against these i...
- ☐ accessibility
- ☐ API: argument checking
- ☐ API: changes
- ☐ API: consistency
- ☐ API: default changes
- ☐ backend: agg
- ☐ backend: cairo
- ☐ backend: inline

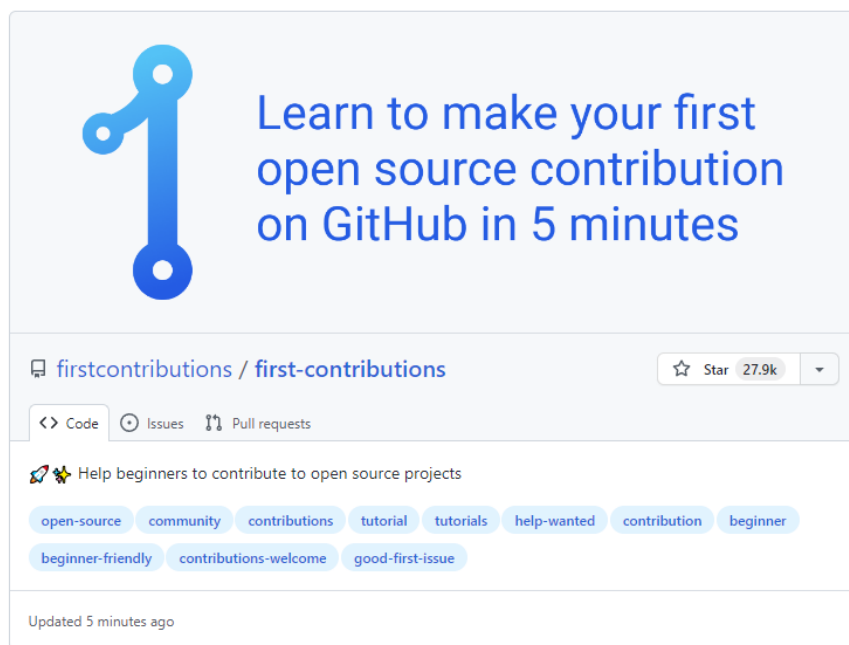
- Other Labels:
 - Help Wanted
 - Up for Grabs
 - ...

How to Explore Good First Issues over GitHub?

good-first-issue

Here are 716 public repositories matching this topic...

Language: All ▾ Sort: Best match ▾



Learn to make your first open source contribution on GitHub in 5 minutes

firstcontributions / first-contributions

Star 27.9k

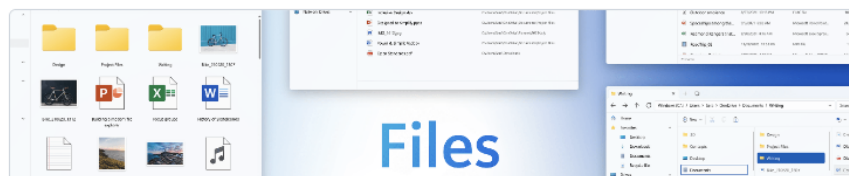
Code Issues Pull requests

Help beginners to contribute to open source projects

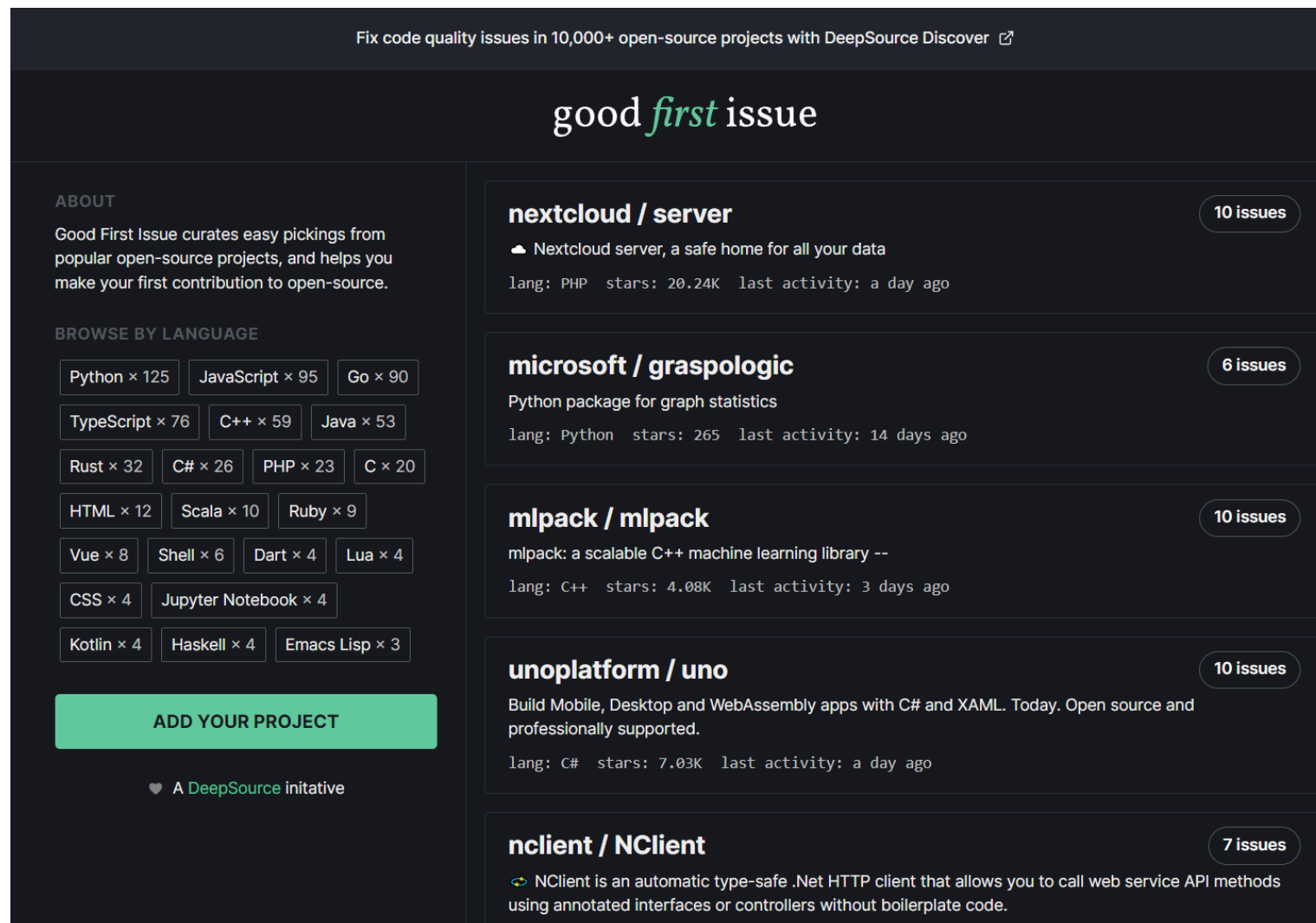
open-source community contributions tutorial tutorials help-wanted contribution beginner

beginner-friendly contributions-welcome good-first-issue

Updated 5 minutes ago



<https://github.com/topics/good-first-issue>



Fix code quality issues in 10,000+ open-source projects with DeepSource Discover

good *first* issue

ABOUT

Good First Issue curates easy pickings from popular open-source projects, and helps you make your first contribution to open-source.

BROWSE BY LANGUAGE

- Python × 125
- JavaScript × 95
- Go × 90
- TypeScript × 76
- C++ × 59
- Java × 53
- Rust × 32
- C# × 26
- PHP × 23
- C × 20
- HTML × 12
- Scala × 10
- Ruby × 9
- Vue × 8
- Shell × 6
- Dart × 4
- Lua × 4
- CSS × 4
- Jupyter Notebook × 4
- Kotlin × 4
- Haskell × 4
- Emacs Lisp × 3

ADD YOUR PROJECT

A DeepSource initiative

- nextcloud / server** (10 issues)
Nextcloud server, a safe home for all your data
lang: PHP stars: 20.24K last activity: a day ago
- microsoft / graspologic** (6 issues)
Python package for graph statistics
lang: Python stars: 265 last activity: 14 days ago
- mlpack / mlpack** (10 issues)
mlpack: a scalable C++ machine learning library --
lang: C++ stars: 4.08K last activity: 3 days ago
- unoplatform / uno** (10 issues)
Build Mobile, Desktop and WebAssembly apps with C# and XAML. Today. Open source and professionally supported.
lang: C# stars: 7.03K last activity: a day ago
- nclient / NClient** (7 issues)
NClient is an automatic type-safe .Net HTTP client that allows you to call web service API methods using annotated interfaces or controllers without boilerplate code.

<https://goodfirstissue.dev/>

Notes about Good First Issues

- Pay attention to the nuances of different labels (checking project documentation!)

Help Wanted [↗](#)

Items marked with the `help wanted` label need to ensure that they meet these criteria:

- **Low Barrier to Entry** It should be easy for new contributors. Documentation on how that type of change should be made should already exist.
- **Clear Task** The task is agreed upon and does not require further discussions in the community. Call out if that area of code is untested and requires new fixtures.

API and CLI behavior should be decided and included in the OP issue, for example: “The new command syntax is `svcat unbind NAME [--orphan] [--timeout 5m]`”, with expected validations called out.

- **Goldilocks priority** The priority should not be so high that a core contributor should do it, but not too low that it isn't useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.
- **Up-To-Date** Often these issues become obsolete and have already been completed, are no longer desired, no longer make sense, or have changed priority or difficulty.

A good example of a Help Wanted issue description can be found here: [kubernetes/test-infra#21356 \(comment\)](#).

These commands can be used with GitHub issues to manage the `help wanted` label:

- `/help` : Adds the `help wanted` label to an issue.
- `/remove-help` : Removes the `help wanted` label from an issue. If the `good first issue` label is present, it is removed as well.

Good First Issue

Items marked with the `good first issue` label are intended for *first-time contributors*. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher prow commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

All `good first issue` items need to follow the guidelines for `help wanted` items in addition to meeting the following criteria:

- **No Barrier to Entry** The task is something that a new contributor can tackle without advanced setup or domain knowledge.
- **Solution Explained** The recommended solution is clearly described in the issue.
- **Provides Context** If background knowledge is required, this should be explicitly mentioned and a list of suggested readings included.
- **Gives Examples** Link to examples of similar implementations so new contributors have a reference guide for their changes.
- **Identifies Relevant Code** The relevant code and tests to be changed should be linked in the issue.
- **Ready to Test** There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesn't have tests, before labeling the issue, add a test fixture. This prep often makes a great `help wanted` task!

<https://www.kubernetes.dev/docs/guide/help-wanted/>

Notes about Good First Issues

- Quick takeovers in popular projects

verify quoting method in svg backend for font names #24080



tacaswell opened this issue yesterday · 7 comments



tacaswell commented yesterday · edited

Member

In the svg backend we need to treat generic and specific font names differently. We are currently using `repr` to achieve this, but we need to verify that this is robust to if repr goes with single or double quotes and if any of the consumers of svg would care.

We have used `repr()` before and it seems to have worked, but technically `repr()` is not exactly quoting. Would both single and double quotes be ok? Unlikely, but in theory Python could change that in repr (or possibly more likely an interpreter other than CPython could use other quotes). Also, can we be sure we will never have byte strings here?

It's more defensive to f-string the quotes explicitly.

Originally posted by @timhoffm in #24066 (comment)



tacaswell added this to the v3.7.0 milestone yesterday



tacaswell added **Difficulty: Medium** **Good first issue** labels yesterday



tacaswell commented yesterday

Member Author

Labeling this as a good first issues because it will only require a very minimal change to the mpl code base and no existing familiarity with it, but medium because it requires researching the implications of quotes in strings is the SVG spec / behavior of down stream readers.



anntzer commented 18 hours ago

Contributor

Single and double quotes are equally valid, and backslash-escaping quotes is valid as well: <https://developer.mozilla.org/en-US/docs/Web/CSS/string>



victorian177 commented 16 hours ago

I would like to take this issue on.



victorian177 commented 15 hours ago · edited

@tacaswell If I understand the issue correctly when the `_format_font_names` function is called, you will always have the fonts printed with different quoting styles (single for specific and double for generic fonts)?

matplotlib/lib/matplotlib/backends/backend_svg.py
Lines 1157 to 1188 in 7de767e

```
1169         # get all of the font names and fix spelling of sans-serif
1170         # if it comes back
1171         aliases = [
1172             normalize_names.get(_, _) for _ in
1173             fm.FontManager._expand_aliases(fn)
1174         ]
1175         # make sure the generic name appears at least once
1176         # duplicate is OK, next layer will deduplicate
1177         aliases.append(fn)
1178
1179         for a in aliases:
1180             # generic font families must not be quoted
```

P.S. Just found out the Matplotlib community does not assign issues. Cool.



tacaswell mentioned this issue 13 hours ago

Simplify svg font expansion logic. #24066

6 tasks

Merged



tacaswell commented 13 hours ago

Member Author

Given @anntzer's comments I think that we are functionally safe if `repr(a_string)` changes if it uses single or double quotes, but our tests (which hard-code the expected string) will fail.

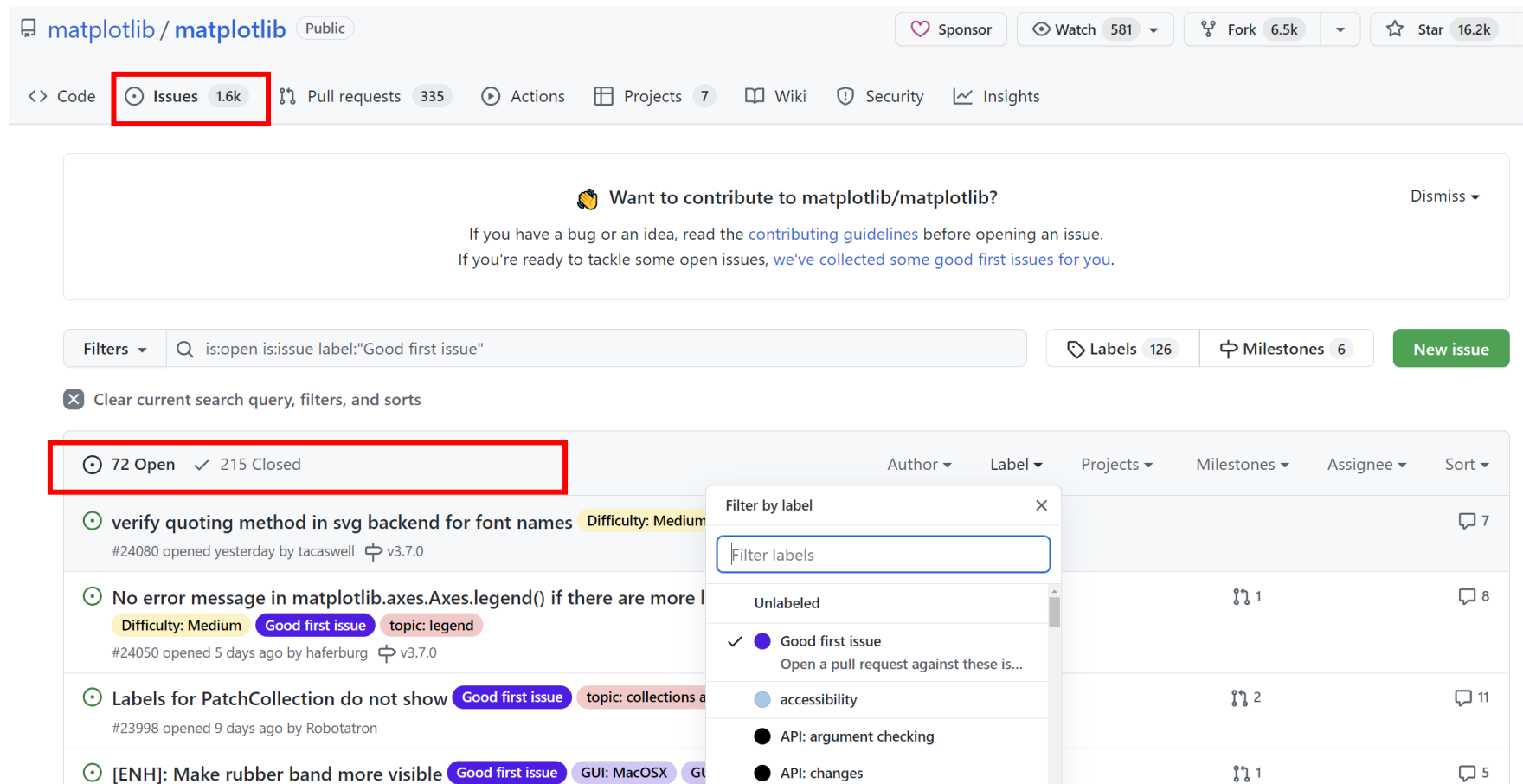
The question here is now: do we care enough about that eventuality to use f-strings to force a particular quoting or close this with no action?

@victorian177 Please look at the code again now that #24066 is merged.

<https://github.com/matplotlib/matplotlib/issues/24080>

Notes about Good First Issues

- Generally, scarce



The screenshot shows the GitHub repository for matplotlib/matplotlib. The 'Issues' tab is selected and highlighted with a red box. Below the repository header, a notification banner asks if the user wants to contribute. The search bar contains the query 'is:open is:issue label:"Good first issue"'. The search results show 72 open issues and 215 closed issues, with the '72 Open' count highlighted by a red box. A list of issues is displayed, including 'verify quoting method in svg backend for font names', 'No error message in matplotlib.axes.Axes.legend() if there are more l', 'Labels for PatchCollection do not show', and '[ENH]: Make rubber band more visible'. A 'Filter by label' dropdown menu is open, showing 'Good first issue' as the selected filter.

matplotlib / matplotlib Public

Sponsor Watch 581 Fork 6.5k Star 16.2k

Code Issues 1.6k Pull requests 335 Actions Projects 7 Wiki Security Insights

Want to contribute to matplotlib/matplotlib? Dismiss

If you have a bug or an idea, read the [contributing guidelines](#) before opening an issue.
If you're ready to tackle some open issues, [we've collected some good first issues for you](#).

Filters is:open is:issue label:"Good first issue" Labels 126 Milestones 6 New issue

Clear current search query, filters, and sorts

72 Open 215 Closed

verify quoting method in svg backend for font names Difficulty: Medium #24080 opened yesterday by tacaswell v3.7.0 7

No error message in matplotlib.axes.Axes.legend() if there are more l Difficulty: Medium Good first issue topic: legend #24050 opened 5 days ago by haferburg v3.7.0 8

Labels for PatchCollection do not show Good first issue topic: collections a #23998 opened 9 days ago by Robotatron 11

[ENH]: Make rubber band more visible Good first issue GUI: MacOSX GU 5

Filter by label

Filter labels

Unlabeled

✓ Good first issue
Open a pull request against these is...

accessibility

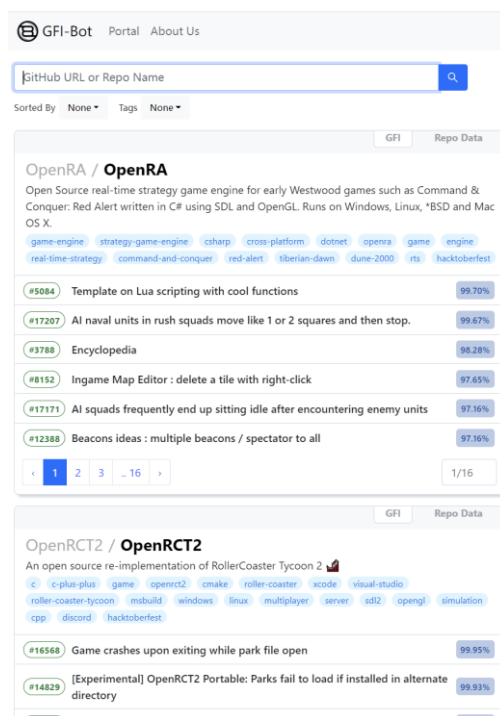
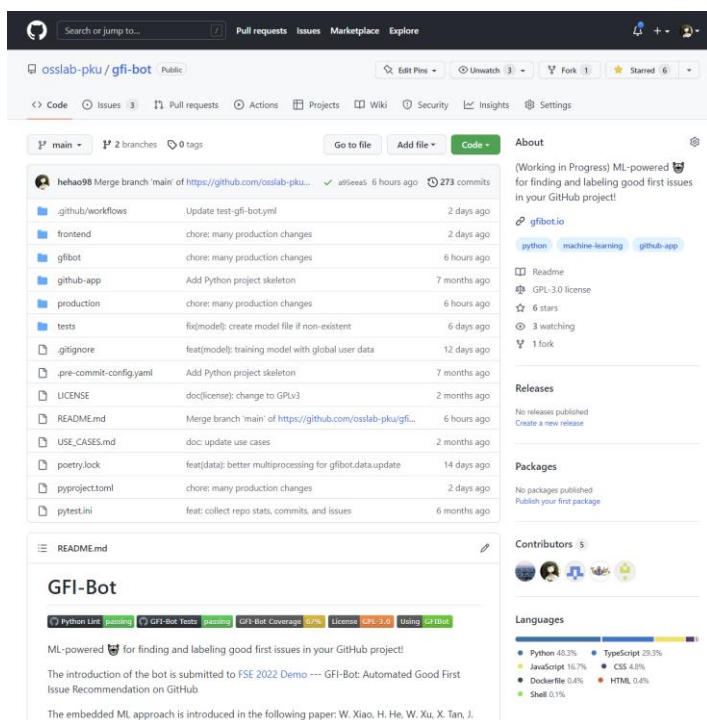
API: argument checking

API: changes

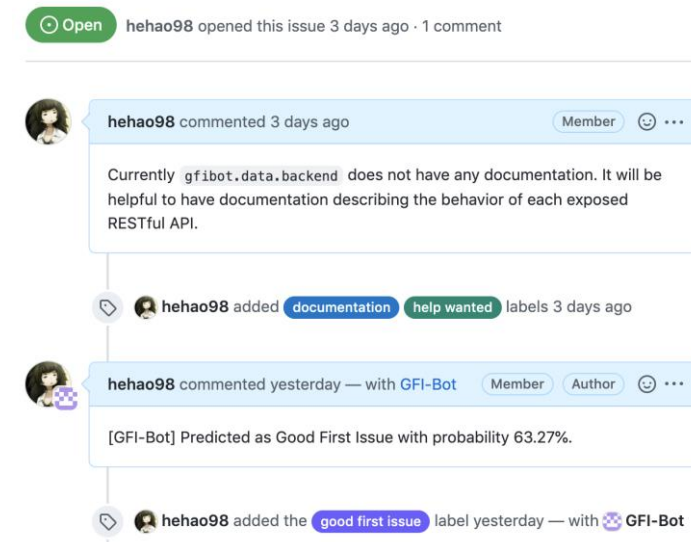
Some Research about Good First Issues...

- W Xiao, J Li, H He, R Qiu, M Zhou. Personalized First Issue Recommender for Newcomers in Open Source Projects. ASE 2023.
- Hao He, Haonan Su, Wenxin Xiao, Runzhi He, and Minghui Zhou. 2022. GFI-Bot: Automated Good First Issue Recommendation on GitHub. In Proceedings of the 2022 ACM 30th Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ESEC/FSE 2022, Singapore, November 14-16, 2022. ACM. <https://hehao98.github.io/files/2022-gfibot.pdf>
- Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, and Minghui Zhou. 2022. Recommending Good First Issues in GitHub OSS Projects. In Proceedings of the 44th International Conference on Software Engineering, ICSE 2022, Pittsburgh, PA, USA, May 21–29, 2022. ACM. <https://hehao98.github.io/files/2022-recgfi.pdf>
- X Tan, M Zhou, Z Sun. A first look at good first issues on GitHub. FSE 2020.

<https://github.com/osslab-pku/gfi-bot>
<https://gfibot.io/>



Add documentation for RESTful APIs #20



How to identify appropriate GFIs?

Extraction of Key Information in GFI Descriptions.

Compare the **description** of GFIs solved by newcomers and unsolved by newcomers.

Table 4: Comparison of keywords in solved GFIs and unsolved GFIs. (■: Solved ■: Unsolved)

Keywords	Comparison	Keywords	Comparison
version	■ 107	map	■ 37
documentation / doc	■ 89	platform	■ 36
return	■ 49	subsystem	■ 34

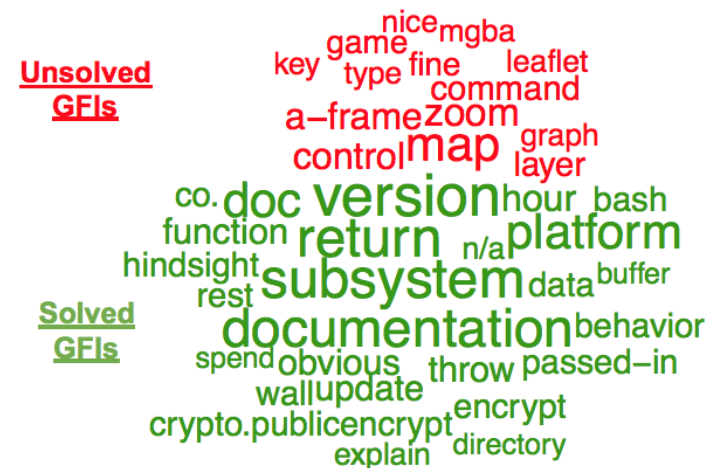


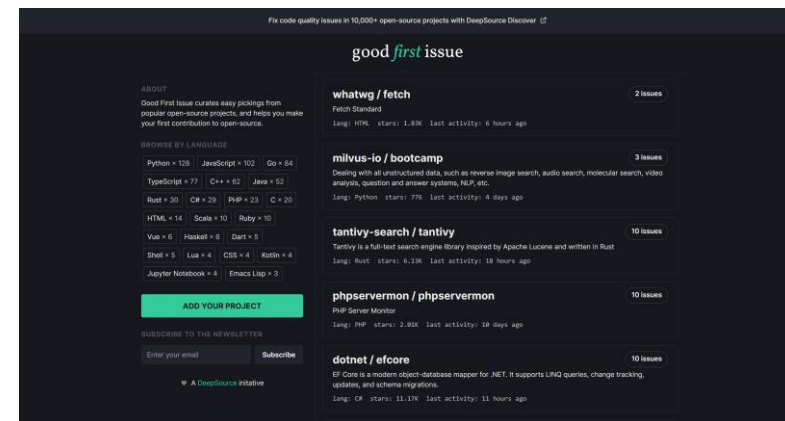
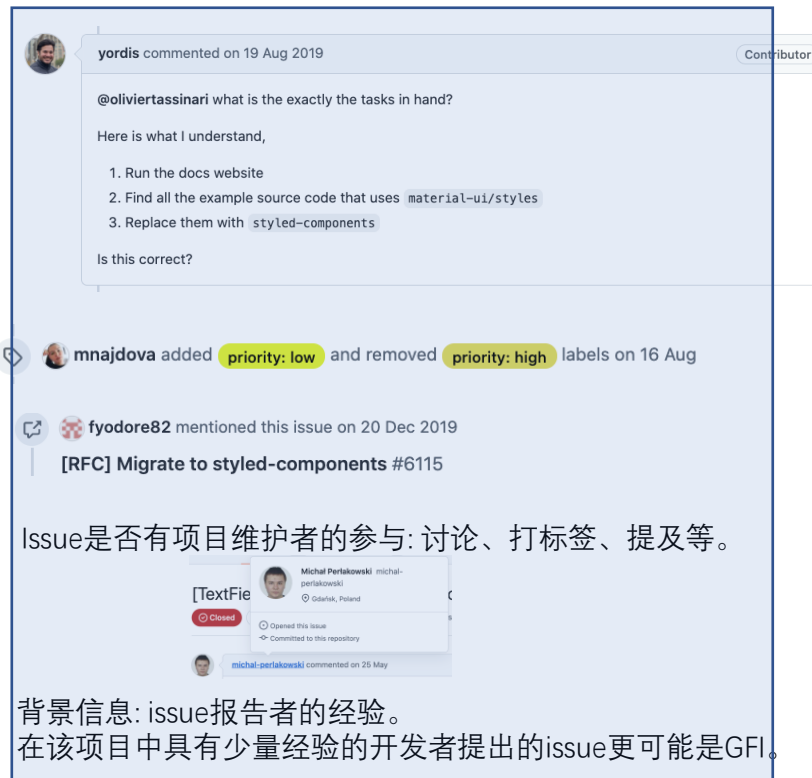
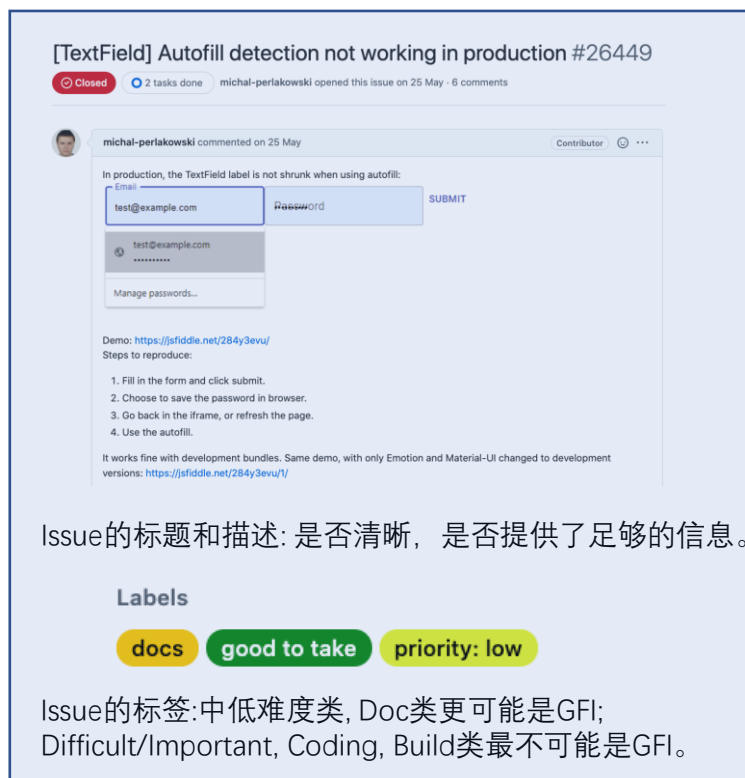
Figure 10: Comparison of solved GFIs and unsolved GFIs. The top 50 keywords with the highest frequency are shown.

Important information in descriptions :

- Detailed environment of the version, subsystem, and platform where the issue occurs
- The actual return of the issue.
- The expected return of the issue.
- Documentations.

自动化新手任务推荐: GFI-Bot

- AI-Powered智能推荐: 为开源项目issue自动打标签 (即判断其是否“新手”任务)



<https://github.com/osslab-pku/gfi-bot>

模型(f): 回归模型(XGBoost等): $p = f(x)$

训练集: 历史issue, 令被新人解决的issue的 $p=1$, 其余issue的 $p=0$

测试点: 任一未被分配的open issue

输出(p): 一个issue是GFI的概率

探索开源贡献的过程：以我自己为例 – 何昊

- 我最近主要在深度使用什么样的开源项目，而且对改进他们很有兴趣？
 - Python数据分析与机器学习相关：pandas, scikit-learn, matplotlib, seaborn...
 - GitHub爬虫：PyGitHub
- 我有没有自己遇到一些想要去改进的地方？
 - PyGitHub可太多了
 - 其他这些好像没有我自己会遇到的使用问题（非常成熟）
- 有没有good first issue？活不活跃？
 - PyGitHub好像不太活跃。。。其他的都很活跃
 - pandas, scikit-learn, matplotlib有good first issue
- 能不能找到我想贡献的good first issue？
 - 简单的good first issue被抢占的也太快了
 - Matplotlib倒是会给一些medium难度的issue标记为good first issue，感觉可以试试！
- 开始了解Matplotlib的贡献流程与开发环境...

探索开源贡献的过程：寻找贡献指南

- <https://matplotlib.org/devdocs/devel/contributing.html>

Do I really have something to contribute to Matplotlib?

100% yes. There are so many ways to contribute to our community.

When in doubt, we recommend going together! Get connected with our community of active contributors, many of whom felt just like you when they started out and are happy to welcome you and support you as you get to know how we work, and where things are. Take a look at the next sections to learn more.

Contributor incubator

The incubator is our non-public communication channel for new contributors. It is a private gitter room moderated by core Matplotlib developers where you can get guidance and support for your first few PRs. It's a place you can ask questions about anything: how to use git, github, how our PR review process works, technical questions about the code, what makes for good documentation or a blog post, how to get involved in community work, or get "pre-review" on your PR.

To join, please go to our public gitter community channel, and ask to be added to '#incubator'. One of our core developers will see your message and will add you.

New Contributors meeting

Once a month, we host a meeting to discuss topics that interest new contributors. Anyone can attend, present, or sit in and listen to the call. Among our attendees are fellow new contributors, as well as maintainers, and veteran contributors, who are keen to support onboarding of new folks and share their experience. You can find our community calendar link at the [Scientific Python website](#), and you can browse previous meeting notes on [github](#). We recommend joining the meeting to clarify any doubts, or lingering questions you might have, and to get to know a few of the people behind the GitHub handles 😊. You can reach out to @noatamir on gitter for any clarifications or suggestions. We <3 feedback!

Issues for new contributors

While any contributions are welcome, we have marked some issues as particularly suited for new contributors by the label `good first issue`. These are well documented issues, that do not require a deep understanding of the internals of Matplotlib. The issues may additionally be tagged with a difficulty. `Difficulty: Easy` is suited for people with little Python experience. `Difficulty: Medium` and `Difficulty: Hard` require more programming experience. This could be for a variety of reasons, among them, though not necessarily all at the same time:

- The issue is in areas of the code base which have more interdependencies, or legacy code.
- It has less clearly defined tasks, which require some independent exploration, making suggestions, or follow-up discussions to clarify a good path to resolve the issue.
- It involves Python features such as decorators and context managers, which have subtleties due to our implementation decisions.


In general, the Matplotlib project does not assign issues. Issues are "assigned" or "claimed" by opening a PR; there is no other assignment mechanism. If you have opened such a PR, please comment on the issue thread to avoid duplication of work. Please check if there is an existing PR for the issue you are addressing. If there is, try to work with the author by submitting reviews of their code or commenting on the PR rather than opening a new PR; duplicate PRs are subject to being closed. However, if the existing PR is an outline, unlikely to work, or stalled, and the original author is unresponsive, feel free to open a new PR referencing the old one.


- 13

探索开源贡献的过程：寻找可以解决的issue

- <https://github.com/matplotlib/matplotlib/issues/23176>
- <https://github.com/matplotlib/matplotlib/issues/23626>

[Doc]: Bracket ArrowStyle Angle Unclear #23176

 story645 opened this issue on 2 Jun · 8 comments

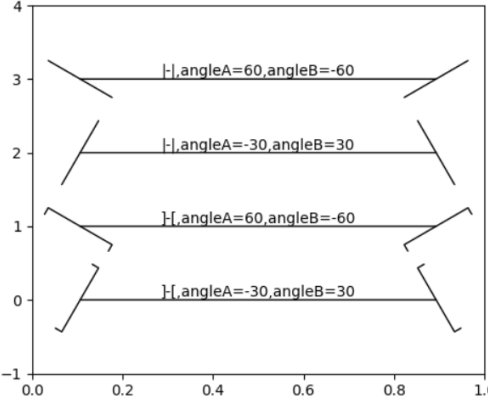

story645 commented on 2 Jun · edited
Member

Documentation Link

https://matplotlib.org/devdocs/users/prev_whats_new/whats_new_3.4.0.html?highlight=bracket#angles-on-bracket-arrow-styles

Problem

I can't tell from this figure what Angle = 60 is relative to, since the top angle is >60 and the lower angle is <60 in the first example, and '0 degrees means perpendicular to the line' is buried in the api docs (I missed what that means like 6 times)



[Bug]: unintended space between comma and digit when using useMathText = True together with comma as decimal separator #23626

New issue

 der-zi opened this issue on 16 Aug · 4 comments


der-zi commented on 16 Aug · edited

Bug summary

When I turn on "useMathText" in matplotlib in the intention to replace 1e6 by $\times 10^6$, the formatting of the commas in the tick labels themselves get wrong. Before they are correct in the form "3,5", with "useMathText" they become "3.5", with (half?) a whitespace between the comma and the following digit.



Code for reproduction

Assignees
No one assigned

Labels
Difficulty: Medium Good first issue
topic: text/mathtext

Projects
None yet


Milestone
No milestone

Development
No branches or pull requests

Notifications Customize
Subscribe
 You're not receiving notifications from this thread.

3 participants


另一个例子：PyGitHub

 README.md

PyGitHub

pypi v1.55 CI passing docs latest license LGPL Slack channel code helpers 3 codecov 99% code style black

PyGitHub is a Python library to access the [GitHub REST API](#). This library enables you to manage [GitHub](#) resources such as repositories, user profiles, and organizations in your Python applications.

Install

```
$ pip install PyGithub
```

Simple Demo

```
from github import Github

# First create a Github instance:

# using an access token
g = Github("access_token")

# Github Enterprise with custom hostname
g = Github(base_url="https://{hostname}/api/v3", login_or_token="access_token")

# Then play with your Github objects:
for repo in g.get_user().get_repos():
    print(repo.name)
```

Documentation

More information can be found on the [PyGitHub documentation site](#).

104 Open	1,217 Closed	Author	Label	Projects	Milestones	Assignee	Sort
Artifact support ?	#2313 opened 12 days ago by lelegard						7
getting AssertionError: unsupported encoding: none only on aws	#2312 opened 12 days ago by MaxOrtGit						1
This is an old issue	#2309 opened 18 days ago by abbi163						
List of repositories of an organization with topics information.	#2308 opened 20 days ago by slopez-lmes						
get asset api URL from browser download URL	#2302 opened 27 days ago by giomilan						
html_url is missing from Milestone	#2301 opened 27 days ago by dregad						
SSL Issue with Python 3.10.x	#2300 opened on 2 Sep by metalshanked						2
Feat Request : add support for required_conversation_resolution in edit branch protection rules	#2299 opened on 30 Aug by RoyBg						
A certain number in the search_code()	#2296 opened on 29 Aug by rekerok						
NamedUser.get_starred() does not do expected job	#2295 opened on 24 Aug by puiseux						
fail to explore some very simple repositories like near/near-docusaurus-styles	#2294 opened on 19 Aug by puiseux						1
Organisation.pyi is missing delete_branch_on_merge argument	#2291 opened on 14 Aug by tekumara						
Can't get public key for org	#2289 opened on 11 Aug by tzzh						1
Get events by date for a user	#2287 opened on 6 Aug by Shreyanand						

一些参考资料

- <https://opensource.guide/>
 - 关于如何参与开源的各种指南
- <https://github.blog/2020-01-22-browse-good-first-issues-to-start-contributing-to-open-source/>
 - GitHub官方对good first issue功能的介绍
- <https://github.com/topics/good-first-issue>
 - GitHub提供的good first issue主题页面
- <https://goodfirstissue.dev/>
 - 一个列出有good first issue的GitHub项目的网站
- <https://gfibot.io/>
 - 对一些GitHub项目推荐good first issue（来自我们实验室）

课堂练习

- Current Research Topics on newcomer onboarding
 - What are really good “good first issues”?
 - What good first issues are good for retaining newcomers?
- 你认为什么样的issue会是适合你解决的?