My experience contributing to Open Source

Feat. CPython & Babel

About me

- Full-Stack Software Engineer @ CERN
- Interested in Python, Web, Programming languages, parsers ..
- I sometimes contribute to Open Source

About my current work

- Indico
  - We are **Open Source**
  - But we also rely on other Open-source Software

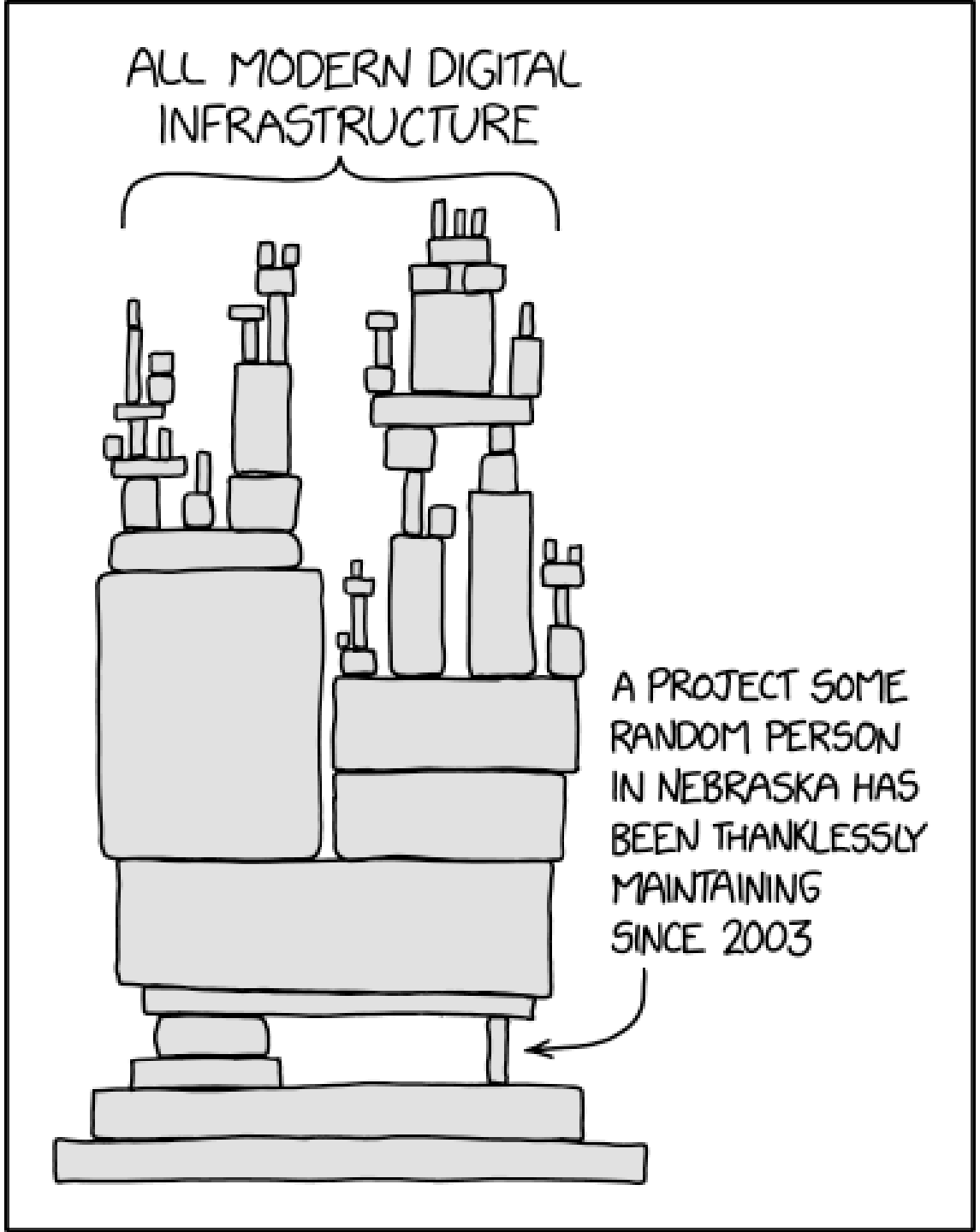
My motivations

- I get to work on things I find interesting
- To give back to projects we depend on in Indico

Babel

The internationalization (i18n) library for Python

```
format_date(dt, locale='en_GB')
# 21 February 2025
format_date(dt, locale='cs_CZ')
# 21. února 2025
```


ALL MODERN DIGITAL INFRASTRUCTURE
A PROJECT SOME RANDOM PERSON IN NEBRASKA HAS BEEN THANKLESSLY MAINTAINING SINCE 2003

Babel

- First contributed because of Indico
- .. and then just continued doing it

What's Changed

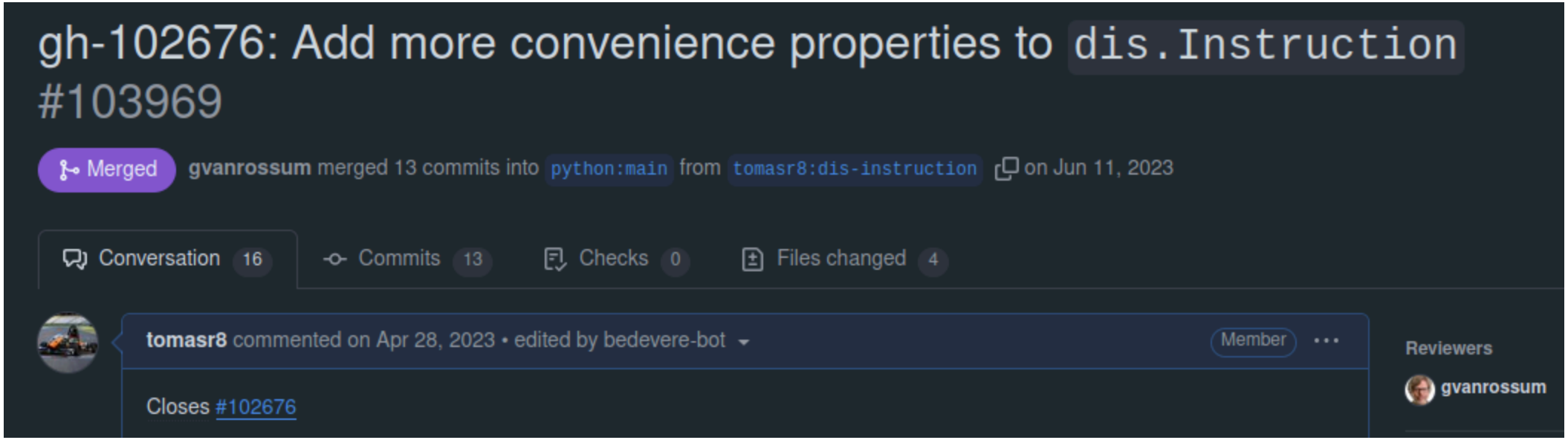
- Fix deprecation warnings for `datetime.utcnow()` by @tomasr8 in #1119
- Enclose white spaces in references by @Dunedan in #1105
- Replace `str.index` with `str.find` by @tomasr8 in #1130
- Replace more alternate characters in `format_skeleton` by @tomasr8 in #1122
- Fix extracted lineno with nested calls by @dylankiss in #1126
- "Deleted duplicate code in test" by @mattdiaz007 in #1138
- Fix of list index out of range error in PoFileParser.add_message when translations is empty by @gabe-sherman in #1135
- Make seconds optional in `parse_time` time formats by @tomasr8 in #1141
- Mark `wraptext` deprecated; use `TextWrapper` directly in `write_po` by @akx in #1140
- Fix the way obsolete messages are stored by @tomasr8 in #1132
- Replace `OrderedDict` with just `dict` by @tomasr8 in #1149
- Use CLDR 46 by @tomasr8 in #1145
- Update CI to use python 3.13 and Ubuntu 24.04 by @tomasr8 in #1153
- Adjust docs/conf.py to add compatibility with sphinx 8 by @hrnciar in #1155
- Allow specifying an explicit format in parse_date/parse_time by @tomasr8 in #1131
- Simplify `read_mo` logic regarding `catalog.charset` by @tomasr8 in #1148
- Bump CI/tool versions by @akx in #1160
- fix: check_and_call_extract_file uses the first matching method and options, instead of the first matching method and last matching options by @jpmckinney in #1121
- Prevent wrapping file locations containing white space by @tomasr8 in #1120
- Add tzdata as dev dependency and sync with tox.ini by @wandrew004 in #1159
- Support short and narrow formats for format_timedelta when using `add_direction` by @akx in #1163
- Improve handling for `locale=None` by @akx in #1164
- Use `pytest.raises(match=...)` by @akx in #1166
- Strip extra leading slashes in `/etc/localtime` by @akx in #1165
- Remove redundant assignment in `Catalog.__setitem__` by @tomasr8 in #1167
- Small cleanups by @akx in #1170
- Small test cleanup by @akx in #1172
- Add `Message.python_brace_format` by @tomasr8 in #1169
- Import `Literal` from the typing module by @tomasr8 in #1175
- Prefer LC_MONETARY when formatting currencies by @akx in #1173
- Fix dates formatting `Y`, `w` and `W` symbols for week-numbering by @jun66j5 in #1179
- Increase test coverage of the `python_format` checker by @tomasr8 in #1176
- Prepare for 2.17.0 by @akx in #1182

KOSKENKORVA
SALMIAKKI
Flavor
SALTY LIQUORICE
From
A VILLAGE
Stamp
1953
KOSKENKORVA FINLAND
Info
IN THE VILLAGE OF KOSKENKORVA WE MAKE A SMOOTH, HONEST VODKA. WE'VE ADDED SCANDINAVIAN SALTY CANDY TO CREATE A SPICY LIQUORICE LIQUEUR. IT'S AS SIMPLE AS THAT.
LIQUEUR/LIKÖÖRI/LIKÖR

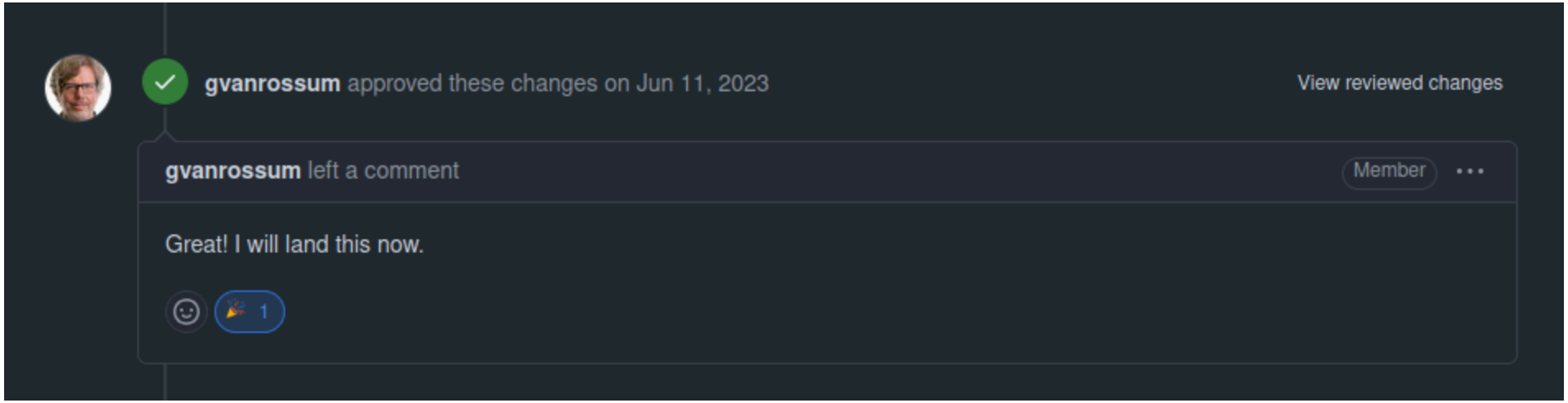
CPython

- The reference Python implementation
- It's on GitHub!

CPython

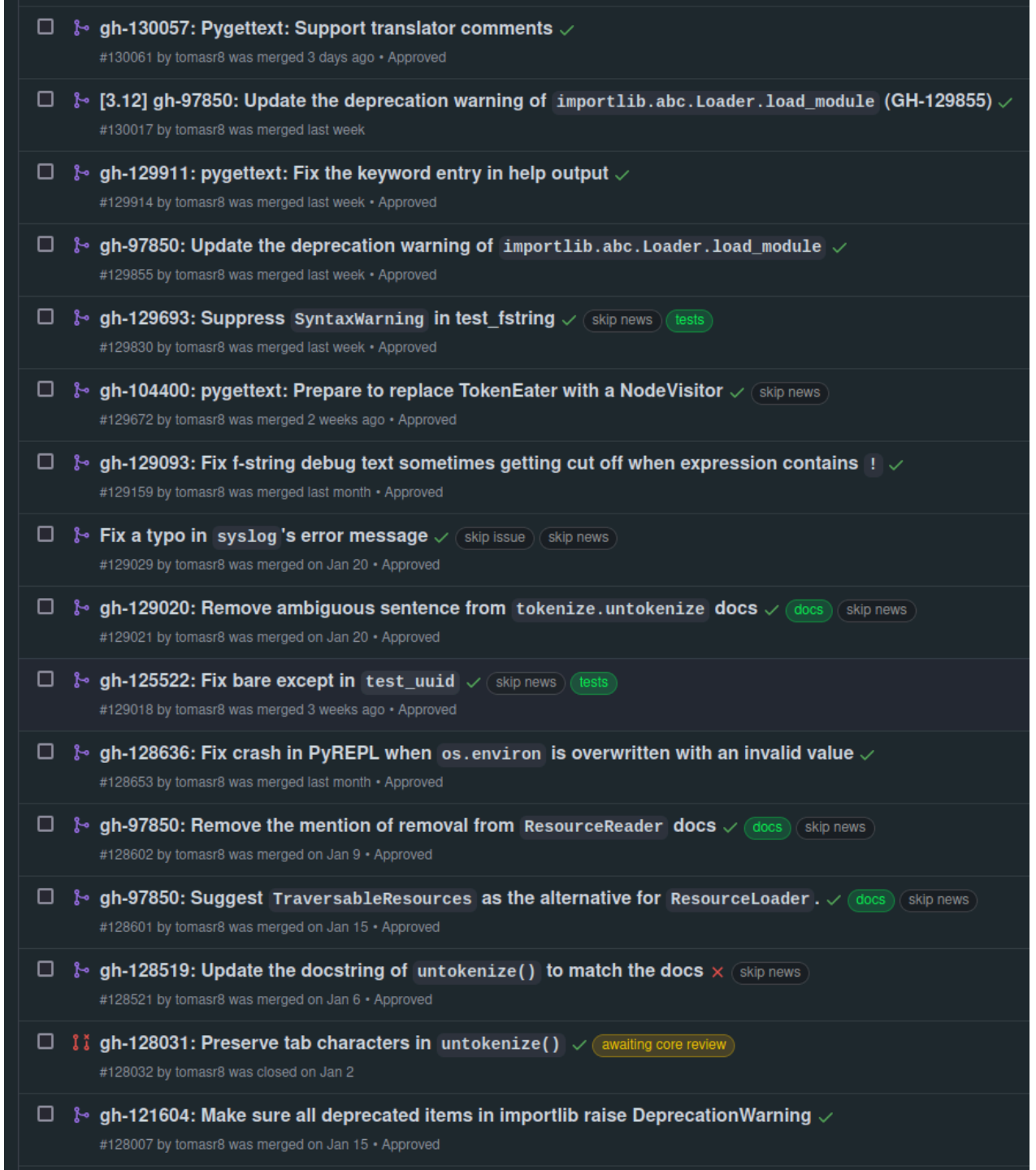

gh-102676: Add more convenience properties to dis.Instruction #103969
Merged
gvanrossum merged 13 commits into python:main from tomasr8:dis-instruction on Jun 11, 2023
Conversation 16
Commits 13
Checks 0
Files changed 4
tomasr8 commented on Apr 28, 2023 • edited by bedevere-bot
Member
Closes #102676
Reviewers
gvanrossum

CPython


gvanrossum approved these changes on Jun 11, 2023
View reviewed changes
gvanrossum left a comment
Member
Great! I will land this now.
1

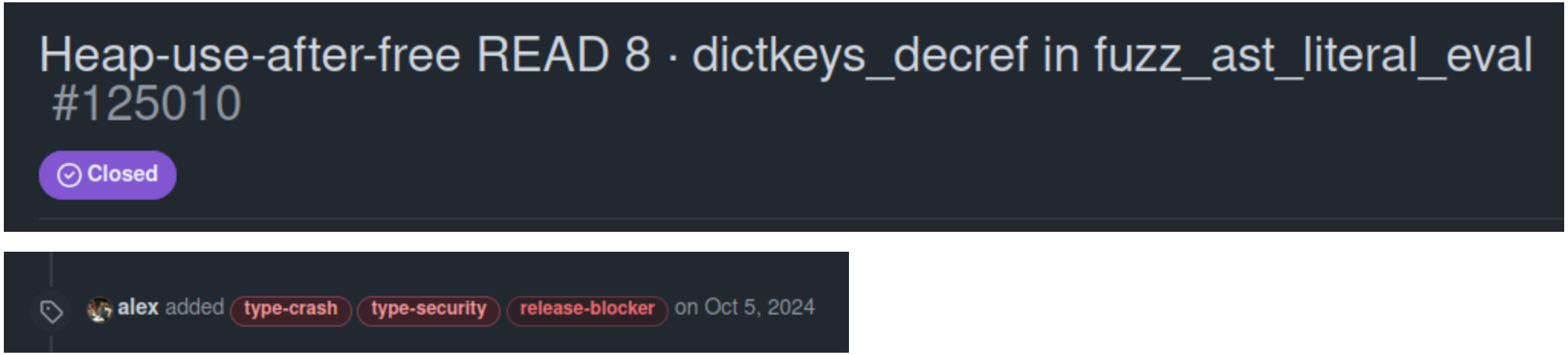
CPython

- Got to work on many exciting parts of CPython
  - Interpreter internals
  - Interactive REPL
  - Parser
  - Standard Library
  - ...

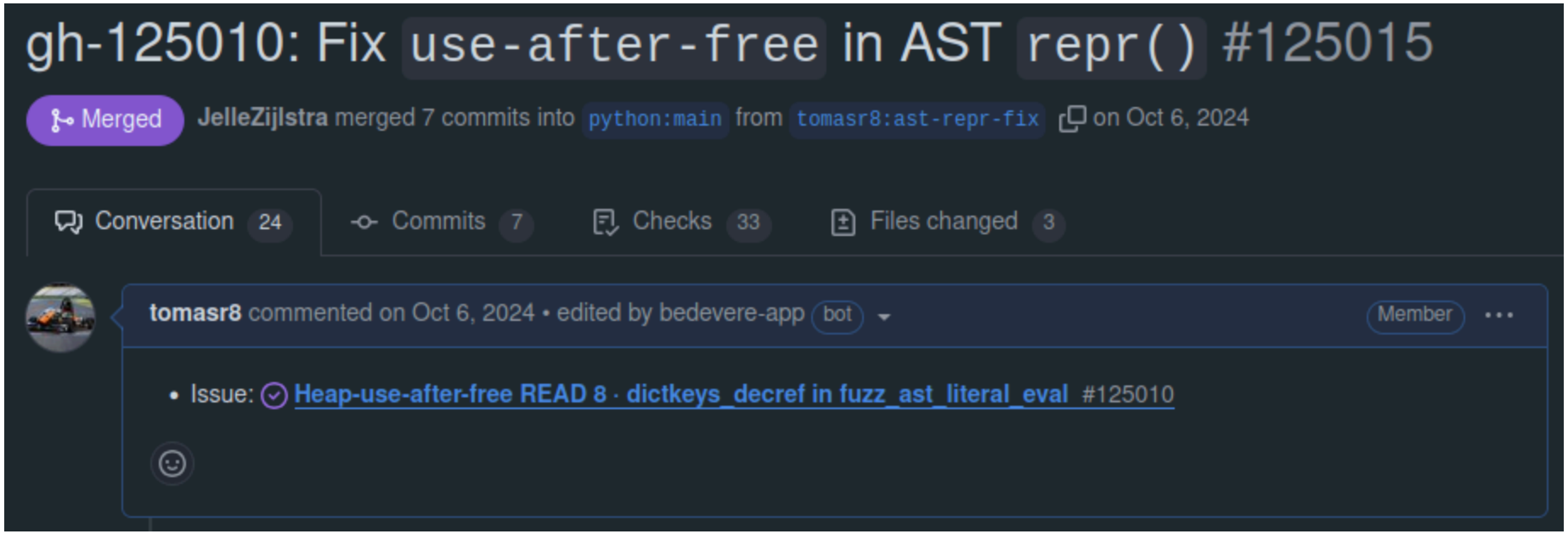


CPython

... and security vulnerabilities?



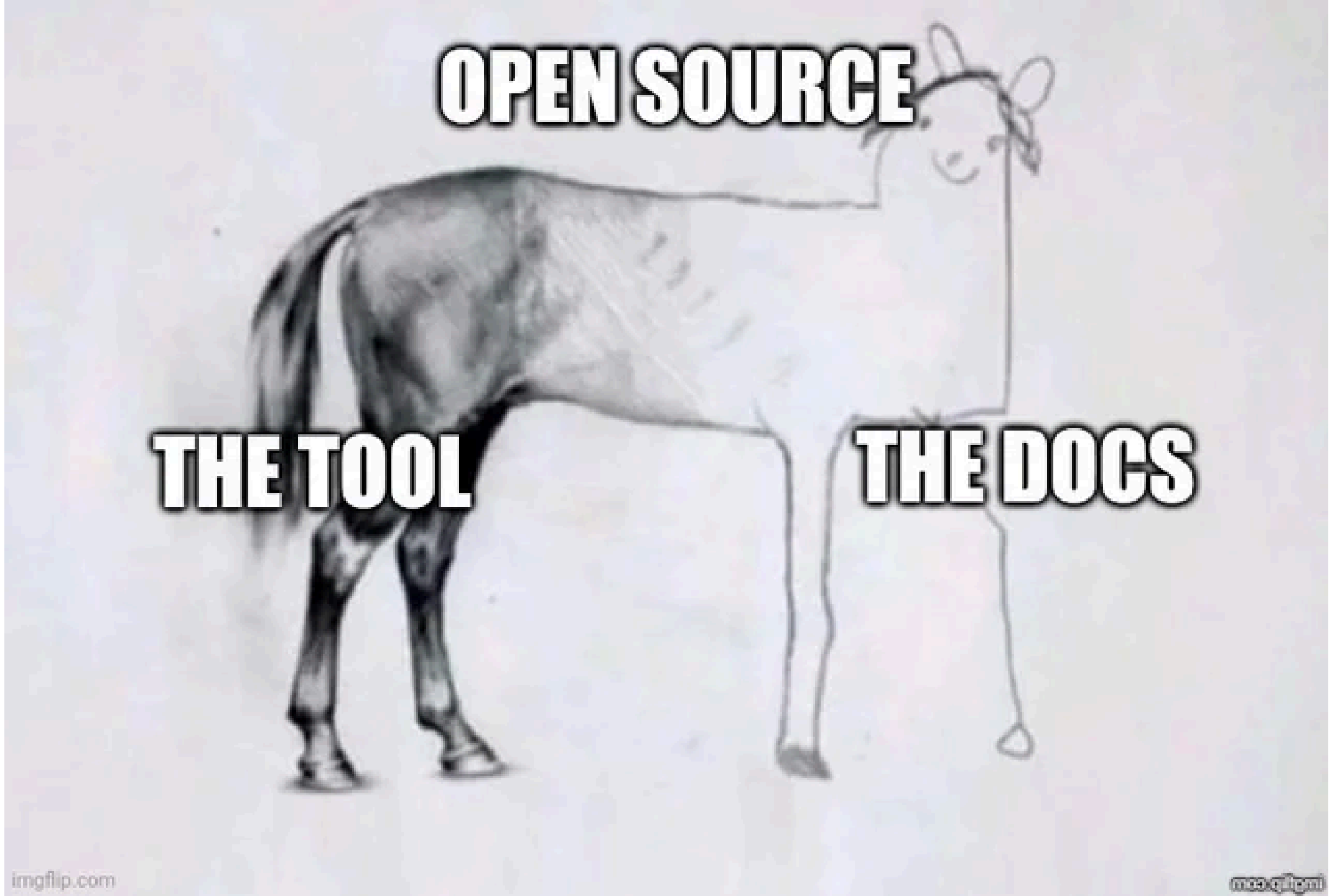
CPython


gh-125010: Fix use-after-free in AST repr() #125015
Merged
JelleZijlstra merged 7 commits into python:main from tomasr8:ast-repr-fix on Oct 6, 2024
Conversation 24
Commits 7
Checks 33
Files changed 3
tomasr8 commented on Oct 6, 2024 • edited by bedevere-app bot
Member
Issue: Heap-use-after-free READ 8 · dictkeys_decref in fuzz_ast_literal_eval #125010

What I learned

- Contributing is a two way street - The PR is not everything
- Be patient - Most people do this in their free time
- Start slow and build trust over time
- Adapt to the project - Each project works differently and has different needs

I'd like to contribute, where do I start?


OPEN SOURCE
THE TOOL
THE DOCS
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When your only contribution to open source software is typo pull requests