Chaste infrastructure

"Cancer Heart and Soft Tissue Environment"

- How to get help
- How to help out

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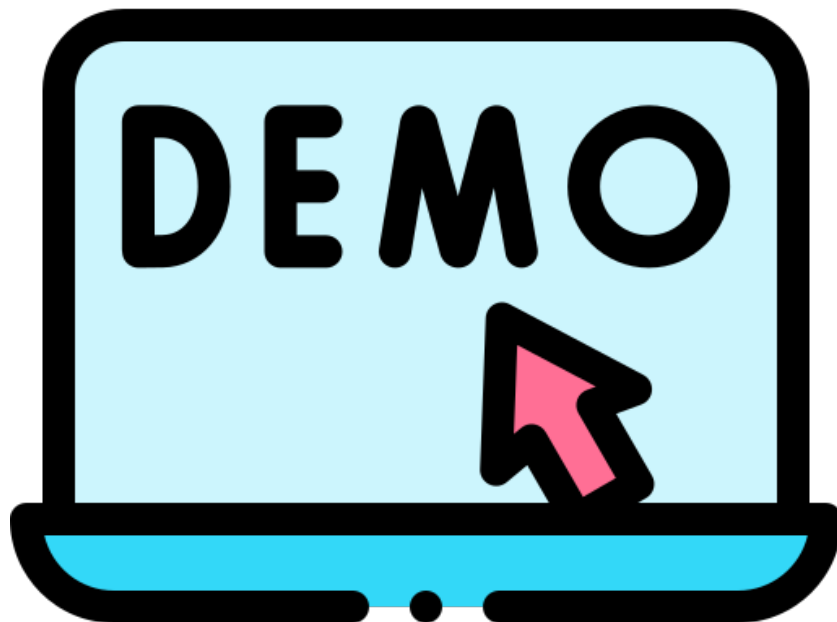
https://chaste.github.io/

Demonstrations

- Please try some of this, or ask for a live demo

Getting help: passive

- Tutorial pages (for now) https://chaste.cs.ox.ac.uk/trac/wiki/UserTutorials
- Code documentation (for now) https://chaste.cs.ox.ac.uk/public-docs/
- Chaste Github webpages (in future) https://chaste.github.io/

Getting help: active

- Github discussions

https://github.com/Chaste/Chaste/discussions
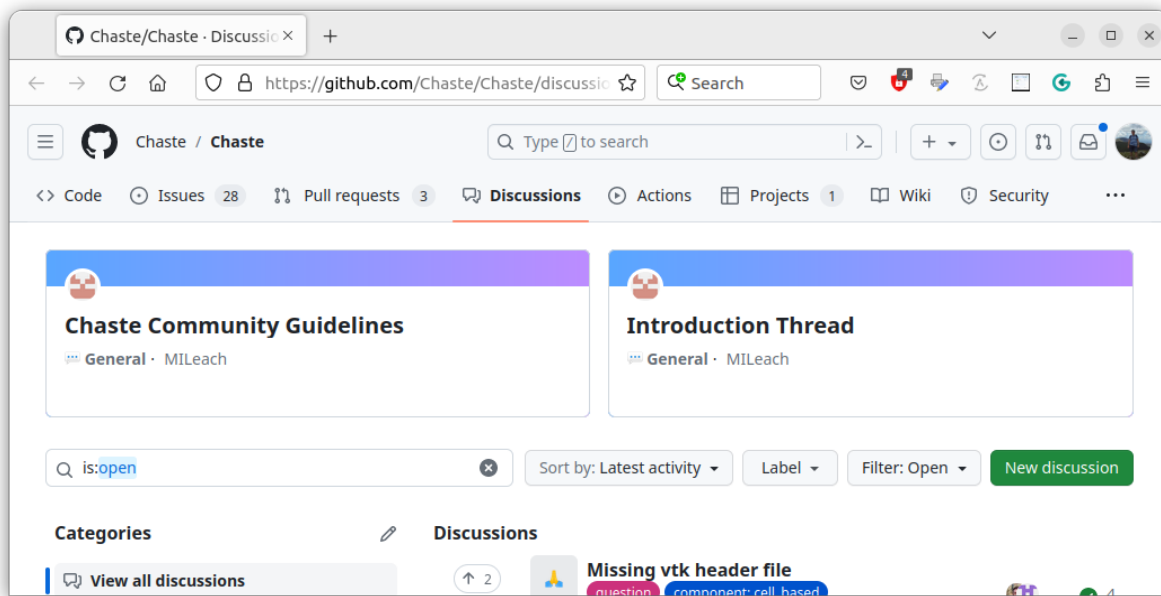
Getting help: more active

- Raise a Github issue (bug report)

  https://github.com/Chaste/Chaste/issues
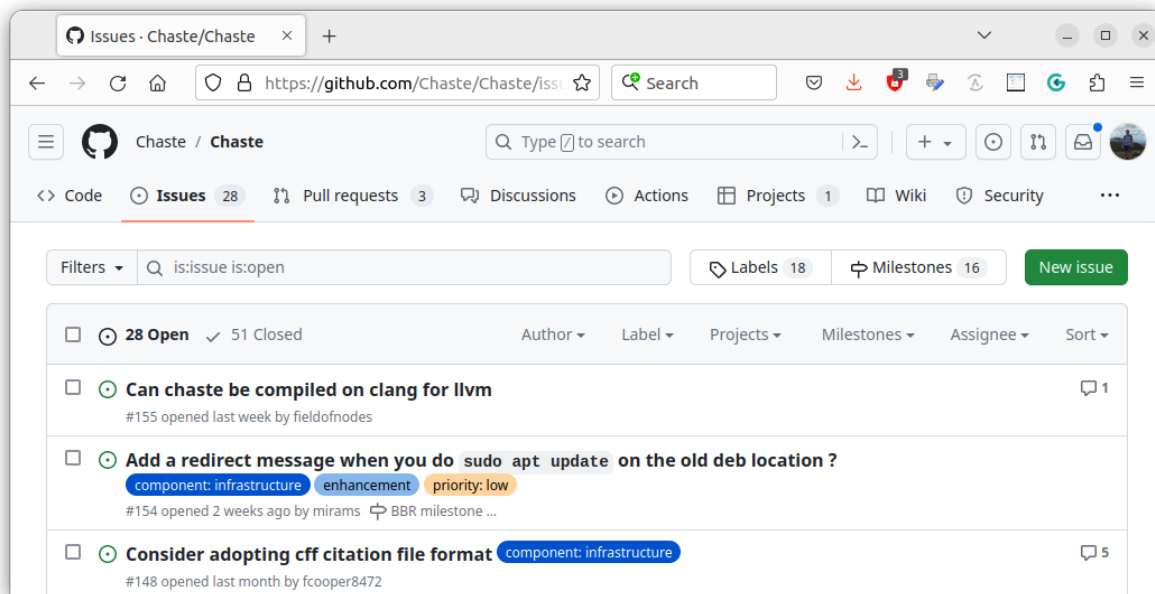
Getting help: more active

- A new "bug" issue contains a template
- You can edit, add or delete things as needed

Helping out: overview

- Main code in the Github *develop* branch
- *develop* is updated with tested, reviewed code
- Work is only pushed via other branches
- Changes tested **before** appearing in *develop*
- Automatic testing on Pull Request
- Testing on Github/University hardware
- Peer-review **before** merge to *develop...*
- ...but you get to merge your own changes

Helping out: fixing stuff

- Work and commit in a branch (or a fork)
- Use your C++ development environment (Ubuntu/Docker)

```
### Get code
$ git clone https://github.com/Chaste/Chaste.git
### Make a local branch from devel
$ git checkout develop
$ git branch issue_999_my_bug
$ git checkout issue_999_my_bug
### Do the work and regularly keep it up-to-date
$ git merge develop
$ git commit -m "#999 First attempt at fix"
### Push local commits back to Chaste Github
$ git push
```

Helping out: fixing stuff

- Make the branch into a Pull Request
- Choose reviewers
- Start getting emails about automated tests
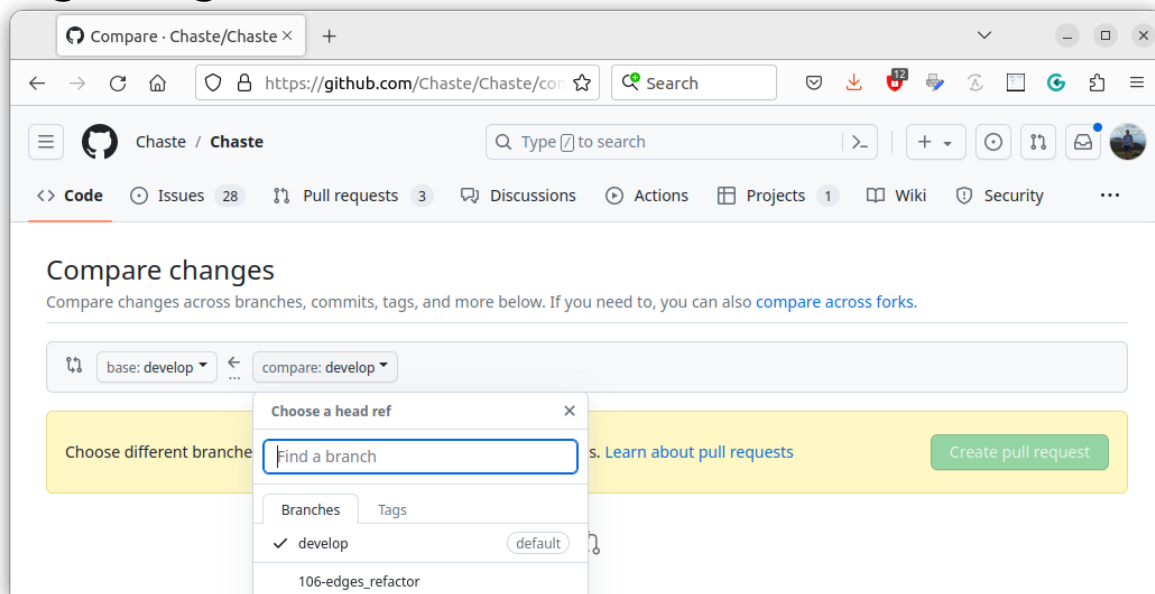
Helping out: fixing stuff

- Deal with criticism and failing tests

- Note that pushes to the branch will change the Pull Request and re-trigger the testing
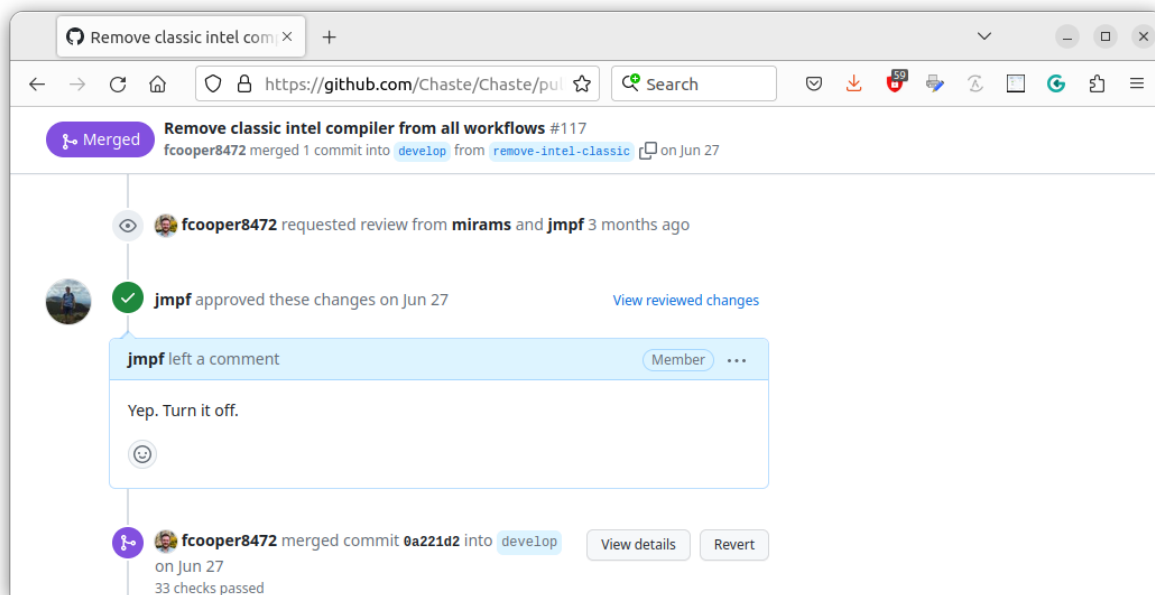
Helping out: fixing stuff

- After passing tests and an approval: merge
- Now close the issue and delete the branch

Overview

- How to get help
  - Read the tutorials
  - Ask a question in Discussions
  - Raise an issue (bug report)
- How to help out
  - Make a branch and write a fix/feature
  - Turn branch into Pull Request
  - Wait for approval, then merges as needed