PASEA 2022

Postgraduate Stream, October 11, 2022

Aarya Patil

Finance committee & voting member, The Astropy Project

PhD Candidate, University of Toronto

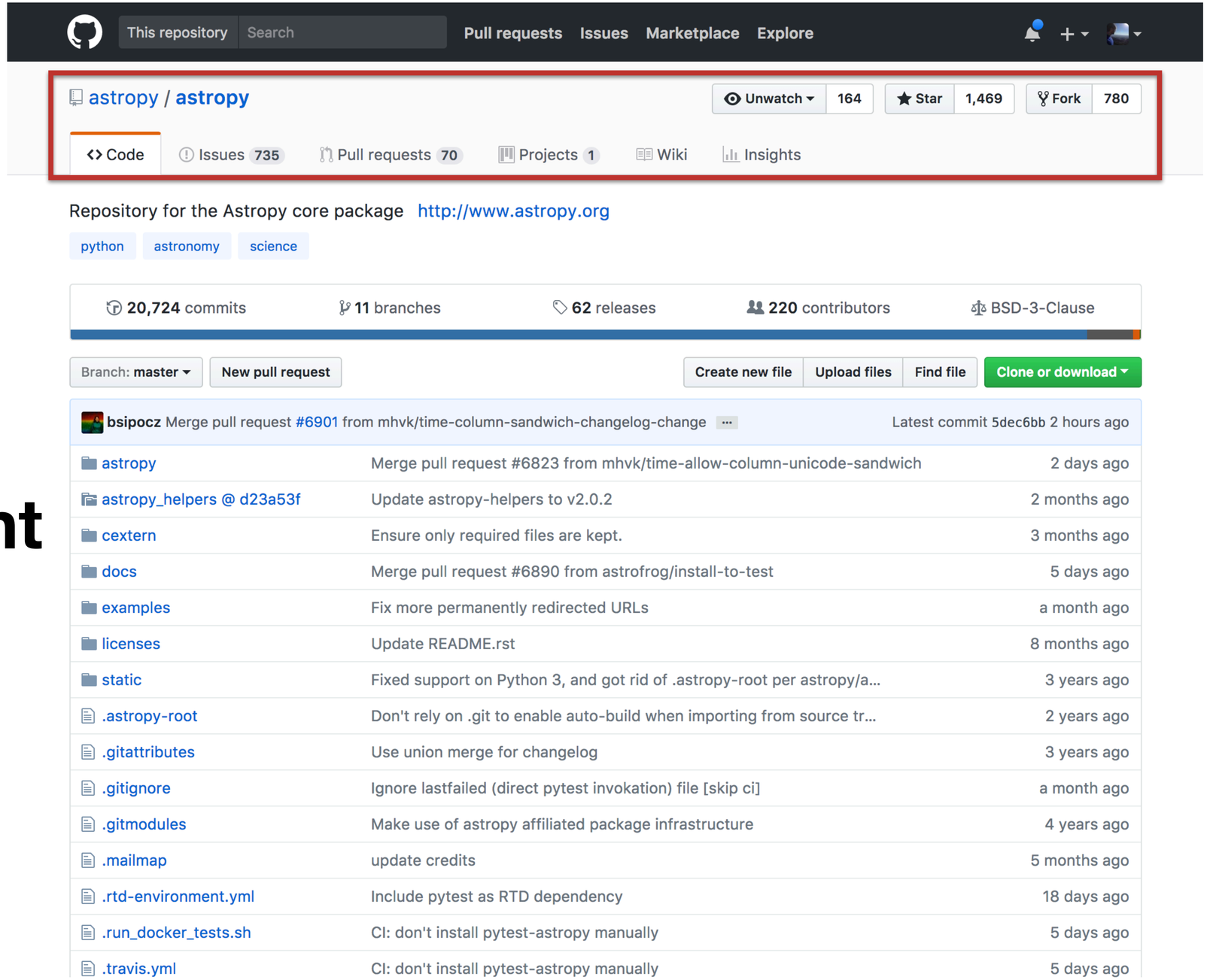
Contributing to

astropy core package

We always welcome new contributors!

You don't have to contribute *code*:
documentation changes & clarification, tutorials,
bug reports are all valuable contributions!

code contributions, review, & management is done on GitHub:



What is GitHub?

GitHub is a collaboration platform that uses Git for versioning.
It is a popular place to share and contribute to open-source software.

📺 Video: What is GitHub?

Quoted from https://github.com/skills/introduction-to-github

What is GitHub?

GitHub is a collaboration platform that uses Git for versioning.
It is a popular place to share and contribute to open-source software.

📺 Video: What is GitHub?

What is open-source software?

- Code is freely (“openly”) available.
- You may redistribute and/or modify it.

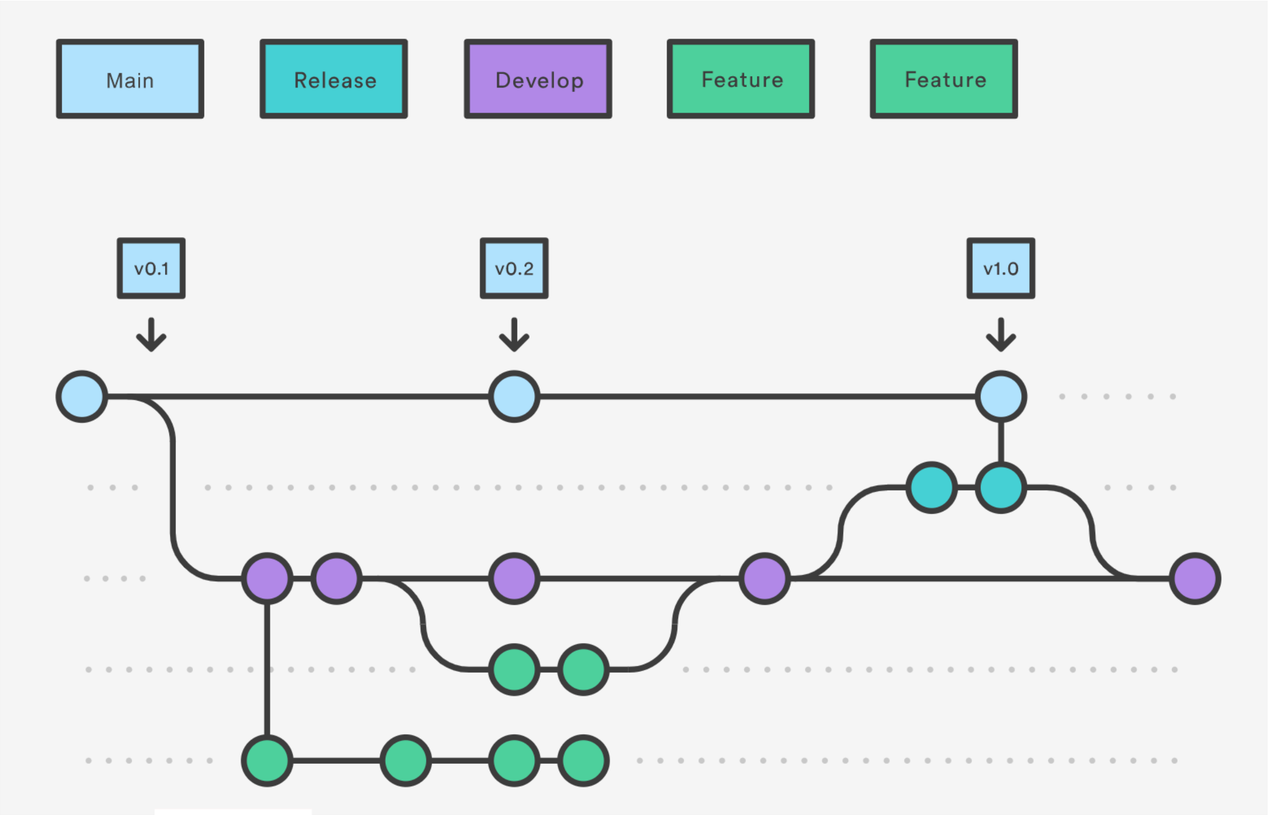
What is GitHub?

GitHub is a collaboration platform that uses Git for versioning.
It is a popular place to share and contribute to open-source software.

📺 Video: What is GitHub?

What is Git?

- A commonly used version control system



https://github.com/skills/introduction-to-github

What is GitHub?

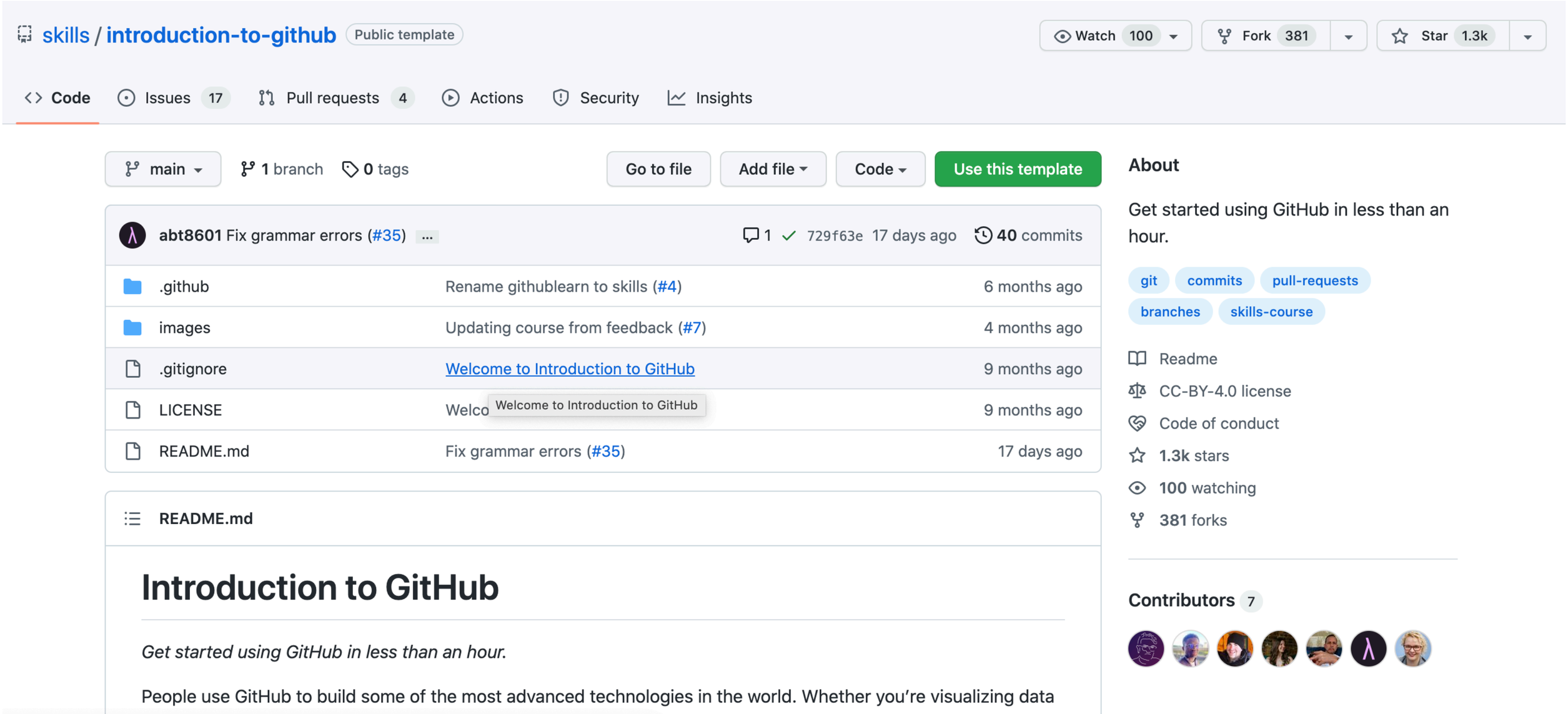
GitHub is a collaboration platform that uses Git for versioning.
It is a popular place to share and contribute to open-source software.

📺 Video: What is GitHub?

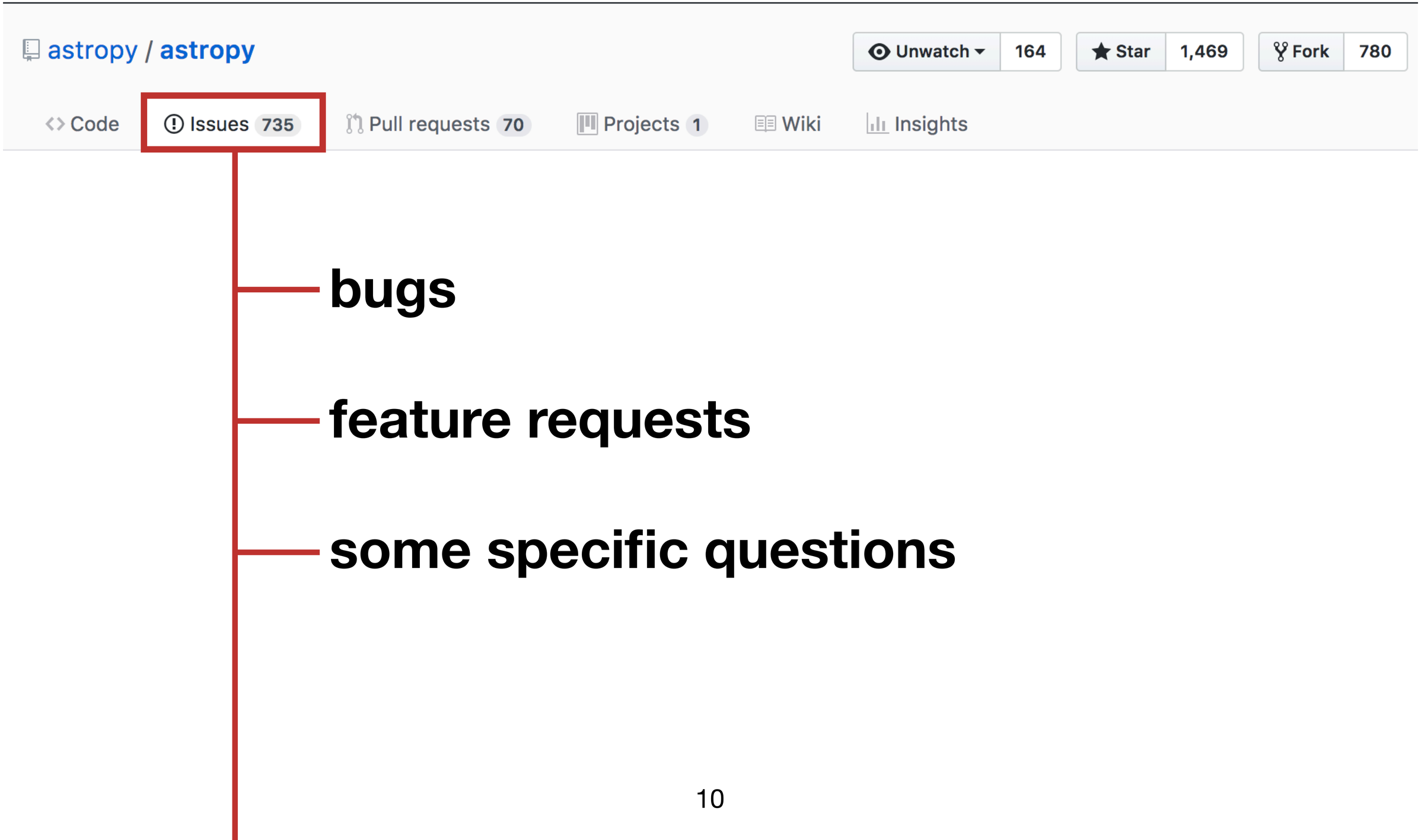
What is a repository?
A repository is a project containing files and folders. It tracks versions of files and folders.

What is a branch?
A branch is a parallel version of your repository. You can use branches to have different versions of a project at one time. On additional branches, you can make edits without impacting the main version. In other words, everyone's work is safe while you contribute.

Quoted from https://github.com/skills/introduction-to-github



https://github.com/skills/introduction-to-github


astropy / astropy
Unwatch 164
Star 1,469
Fork 780
Code
Issues 735
Pull requests 70
Projects 1
Wiki
Insights
bugs
feature requests
some specific questions

astropy / astropy

Unwatch 164 | Star 1,469 | Fork 780

Code | Issues 735 | Pull requests 70 | Projects 1 | Wiki | Insights

Filters | is:issue is:open **Search** | Labels | Milestones | New issue

735 Open | 1,887 Closed | Author | Labels | Projects | Milestones | Assignee | Sort

- **Fails to create large bintable** Docs Effort-low io.fits — 4
  #6900 opened 13 hours ago by Acrisel
- **Logarithmic quantities should support some ufuncs** Bug units
  #6897 opened 2 days ago by mhvk
- **Changes to integer column values with bzero set in opened fits tables are not written back to file** Affects-release Bug io.fits table
  #6887 opened 6 days ago by kgabor
- **HTML download of docs yields very old version** Docs — 1
  #6886 opened 6 days ago by bwinkel
- **Respect tied values in model parameters should be respected** Feature Request modeling
  #6881 opened 6 days ago by mhvk
- **Bayesian Blocks type error** Bug stats — 2
  #6877 opened 7 days ago by ebouff
- **instructions for updating from Astropy 1.x to Astropy 2.x in Anaconda** Docs installation — 4
  #6874 opened 9 days ago by richardgmcmahon
- **Start checking for component name-frame attribute overlaps at frame class creation** coordinates — 1
  #6870 opened 10 days ago by eteq

astropy / astropy

Unwatch 178 | Star 1,959 | Fork 1,002

Code | Issues 900 | Pull requests 70 | Projects 0 | Wiki | Insights

ABmag not documented on units page #8244

Edit | New issue

Open **parejkoj** opened this issue on Dec 6, 2018 · 2 comments

parejkoj commented on Dec 6, 2018 — Member

The `ABmag` unit is mentioned twice on the logarithmic units page, but has no documentation and is not even mentioned on the main units page.

@pllim made sure that the new photometry units documentation got into the release.

@mhvk was mentioned as who to contact about getting ABmag documented there.

pllim added **units** **Docs** labels on Dec 6, 2018

mhvk commented on Dec 6, 2018 — Member

Indeed, we now at least include http://docs.astropy.org/en/latest/units/index.html#module-astropy.units.photometric - but that doesn't mention any of the `mag*` actual logarithmic units.

Assignees

No one—assign yourself

Labels

Docs
Effort-low
Package-novice
good first issue
units

Projects

None yet

Milestone

No milestone

contributed code

bug fixes

documentation edits

astropy / astropy

Watch 178 | Star 1,959 | Fork 1,002

Code | Issues 900 | Pull requests 70 | Projects 0 | Wiki | Insights

Add equality for representations (to fix #8138) #8205

New issue

Open **eteq** wants to merge 7 commits into `astropy:master` from `eteq:fix-repr-is-equiv`

Conversation 9 | Commits 7 | Checks 0 | Files changed 5 | +126 −0

eteq commented on Dec 3, 2018 — Member

This fixes #8138 by adding an equality comparison for representation objects. Some implementation notes:

- It does the reasonable thing of converting to cartesian if the two objects aren't the same
- It yields False (not TypeError) if the right-hand-side is not a representation
- It does *not* try to do fancy differential-converting - it will only return True if the classes of the representation match and the differentials are all equal.

Note that this is high priority as it is currently a blocker for release of 3.1 because it fixes #8138 (somewhat counter-intuitively by creating a new feature

cc **@adrn @bsipocz @astrofrog** (the latter mostly because it probably needs a 👍 since we're post feature-freeze... although debatable since it's both a new feature *and* a bug fix?)

👍 1

Reviewers

mhvk ✗

adrn ●

Requested changes must be addressed to merge this pull request.

Assignees

No one assigned

Labels

coordinates

Projects

None yet

Add equality for representations (to fix #8138) #8205

New issue

Open **eteq** wants to merge 7 commits into `astropy:master` from `eteq:fix-repr-is-equiv`

Conversation 9 | Commits 7 | Checks 0 | Files changed 5

Changes from **all commits** | File filter... | Jump to... | +126 −0 | Diff settings

2 CHANGES.rst — Copy path | View file

```
@@ -276,6 +276,8 @@ astropy.coordinates
276 276    - Added a ``directional_offset_by`` method to ``SkyCoord`` that computes a new
277 277      coordinate given a coordinate, position angle, and angular separation [#5727]
278 278
    279 +  - Representations now have equality comparison. [#8205]
    280 +
279 281    astropy.cosmology
280 282    ^^^^^^^^^^^^^^^^
281 283    - The default cosmology has been changed from ``WMAP9`` to ``Planck15``
```

added

46 astropy/coordinates/representation.py — Show comments | Copy path | View file

```
@@ -171,6 +171,19 @@ def __init__(self, *args, **kwargs):
171 171            for component, attr in zip(components, attrs):
172 172                setattr(self, '_' + component, attr)
173 173
    174 +      def __eq__(self, other):
565     -              # In principle, could gain time by testing unit is self.unit
566     -              # as well, and then quantity_subclass = self.__class__, but
567     -              # Constant relies on going through `__quantity_subclass__`.
```

removed

mhvk reviewed 18 days ago

View changes

astropy/io/fits/fitstime.py

```
...  ...  @@ -362,6 +362,10 @@ def _convert_time_column(col, column_info):
362  362              # [+/-C]CCYY-MM-DD[Thh:mm:ss[.s...]] where the number of chara
363  363              # from index 20 to the end of string represents the precision
364  364              precision = max(int(col.info.dtype.str[2:]) - 20, 0)
     365  +           if col.info.dtype.kind == 'S':
```


mhvk 18 days ago **Member**

I'd not be against solving this on the `Time` side - **@taldcroft** - what do you think? It would not be difficult (but definitely in another PR).

mhvk 18 days ago **Member**

Actually, `col` here is an astropy `Column`, which should sandwich the bytes already, so I think that this doesn't work automatically is a buglet.

mhvk 18 days ago **Member**

See #6823 for a fix. I think it is fairly trivial, so perhaps we can merge it before this PR, so that this change no longer is necessary.

astrofrog 18 days ago **Owner**

@mhvk - sounds good!

taldcroft 4 hours ago **Owner**

#6823 is merged now.

Reply...

Review required — Show all reviewers

At least one approved review is required by reviewers with write access. Learn more.

Some checks were not successful — Hide all checks

1 failing and 4 successful checks

✕	**astropy-bot** — There were failures in checks - see comments by @astropy-b...	Details
✓	**ci/circleci** — Your tests passed on CircleCI!	Details
✓	**continuous-integration/appveyor/pr** — AppVeyor build succeeded	Details
✓	**continuous-integration/travis-ci/pr** — The Travis CI build passed	Details
✓	**coverage/coveralls** — Coverage increased (+0.002%) to 84.889%	Details

Merging is blocked

Merging can be performed automatically with one approved review.

astropy affiliated packages

Astronomy Python packages that are **not part of the Astropy core package** but have requested to be a part of the **Astropy project**

Agree to good coding standards (testing, documentation), reduce duplication, open development

Use `astropy` when possible to improve interoperability

affiliated.astropy.org

General rules of thumb

Check the **issues** and **affiliated packages** page before proceeding

You may be duplicating some one else's work

Adhere to PEP-8 and similar **best coding practices**

i.e., Make your code readable!

Work in a branch (of your own fork) with an informative name

Submit pull requests from that branch

Leave files that cannot be "diffed" (e.g., fits, png, pdf) **out** of the repo

If they are absolutely necessary, use download or talk to an Astropy lead

Clear all outputs on jupyter notebooks (.ipynb) before any commit

This allows them to be "diffed"

If you forget, use git rebase to clear up the git history