

# 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!



**bugs**

**feature requests**

**some specific questions**

<> Code

🔔 Issues 735

🔗 Pull requests 70

📊 Projects 1

📖 Wiki

📈 Insights

Filters ▾









🔍 is:issue is:open

Search

Labels

Milestones

New issue

<input type="checkbox"/>	🔔 735 Open ✓ 1,887 Closed	Author ▾	Labels ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	 <b>Fails to create large bintable</b> <span>Docs</span> <span>Effort-low</span> <span>io.fits</span> #6900 opened 13 hours ago by Acrisel						💬 4
<input type="checkbox"/>	 <b>Logarithmic quantities should support some ufuncs</b> <span>Bug</span> <span>units</span> #6897 opened 2 days ago by mhvk						
<input type="checkbox"/>	 <b>Changes to integer column values with bzero set in opened fits tables are not written back to file</b> <span>Affects-release</span> <span>Bug</span> <span>io.fits</span> <span>table</span> #6887 opened 6 days ago by kgabor						
<input type="checkbox"/>	 <b>HTML download of docs yields very old version</b> <span>Docs</span> #6886 opened 6 days ago by bwinkel						💬 1
<input type="checkbox"/>	 <b>Respect tied values in model parameters should be respected</b> <span>Feature Request</span> <span>modeling</span> #6881 opened 6 days ago by mhvk						
<input type="checkbox"/>	 <b>Bayesian Blocks type error</b> <span>Bug</span> <span>stats</span> #6877 opened 7 days ago by ebouff						💬 2
<input type="checkbox"/>	 <b>instructions for updating from Astropy 1.x to Astropy 2.x in Anaconda</b> <span>Docs</span> <span>installation</span> #6874 opened 9 days ago by richardgcmahon						💬 4
<input type="checkbox"/>	 <b>Start checking for component name-frame attribute overlaps at frame class creation</b> <span>coordinates</span> #6870 opened 10 days ago by eteq						💬 1



# 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**

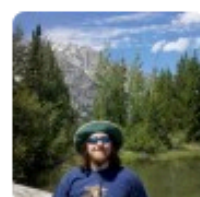
# Add equality for representations (to fix #8138) #8205

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

279 279

+ - Representations now have equality comparison. [#8205]

280 280

+

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

504 174

+ def \_\_eq\_\_(self, other):

504 174

+

565 565

- # In principle, could gain time by testing unit is self.unit

566 566

- # as well, and then quantity\_subclass = self.\_\_class\_\_, but

567 567

- # Constant relies on going through ``\_\_quantity\_subclass``.

568 571

unit = Unit(unit)

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.



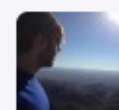
astrofrog 18 days ago Owner

@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](https://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*