

ctools - Bug #3156

show_pull_histogram.py broken with matplotlib > 3.1.0

02/05/2020 12:14 PM - Cardenzana Josh

Status: Closed	Start date: 02/05/2020
Priority: Normal	Due date:
Assigned To: Cardenzana Josh	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version: 1.7.0	
Description This issue only affects source builds. I noticed an issue with show_pull_histogram.py failing the tests. The issue appears to be that the script uses the <code>matplotlib.mlab.normpdf</code> function which was removed in matplotlib v3.1.0 (see here). Running the script with matplotlib v3.1.3 confirms this method does not exist and throws: AttributeError: module 'matplotlib.mlab' has no attribute 'normpdf' I believe issue #3136 is related.	
Related issues: Related to ctools - Bug # 3136: make check fails with test_examples.py Closed 01/13/2020	

History

#1 - 02/05/2020 12:19 PM - Cardenzana Josh

- Related to Bug #3136: make check fails with test_examples.py added

#2 - 02/05/2020 12:29 PM - Cardenzana Josh

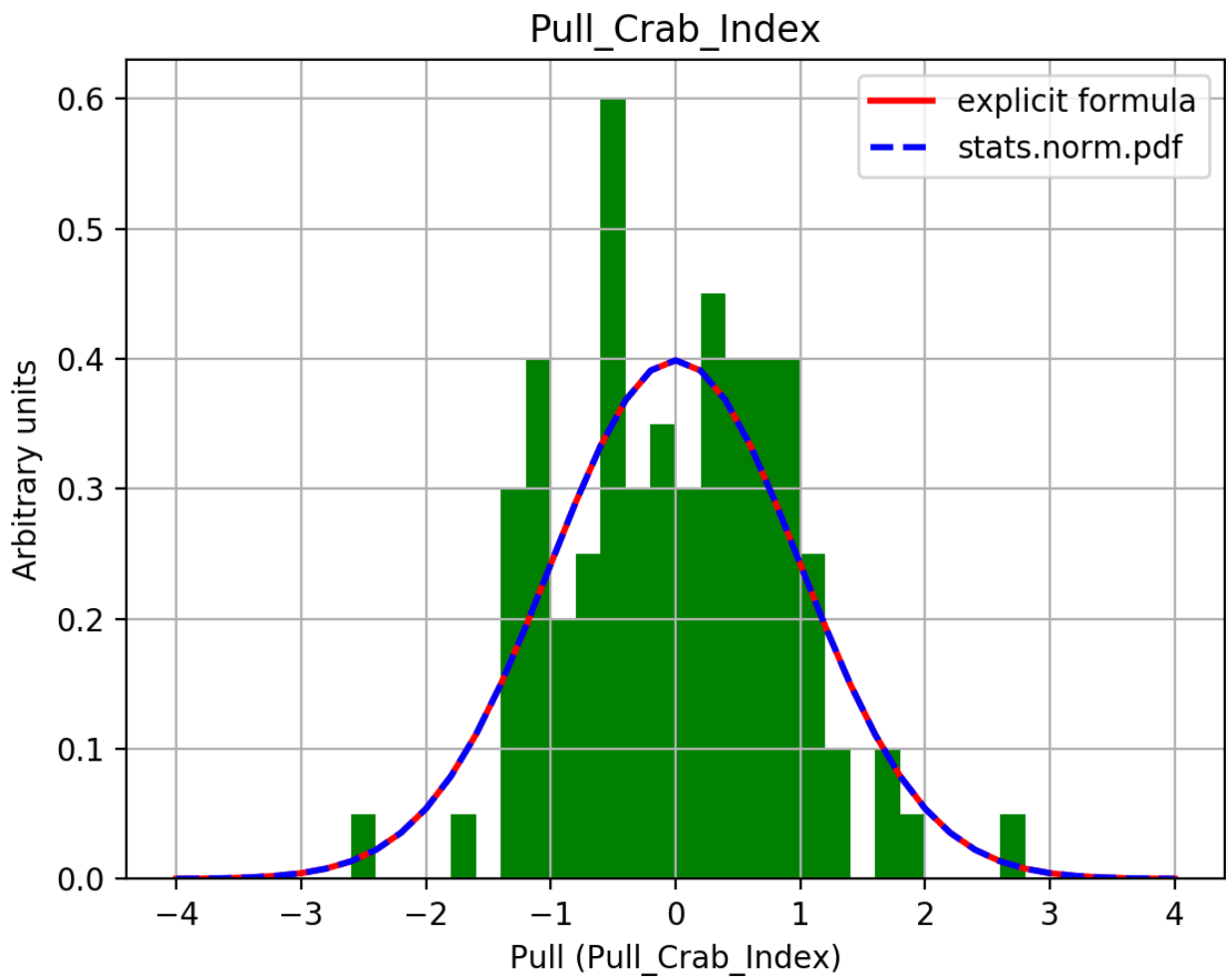
- File cspull_test.png added

The documentation suggests using `scipy.stats.norm.pdf` instead, but that would introduce another dependency.

Instead I propose the simple replacement by the following (which just does the calculation explicitly):

```
y = np.exp(-0.5*bins*bins) / np.sqrt(2.0*np.pi)
```

NumPy is already a dependency in the script, but it removes the need for matplotlib.mlab. The results are exactly the same using the suggested workaround and the explicit formula:



#3 - 02/05/2020 04:49 PM - Cardenzana Josh

- % Done changed from 0 to 100

I've implemented the above changes here:

Pull information:

- Username: jcardenzana
- repository: ctools
- branch: 3156_remove_normpdf

#4 - 02/17/2020 02:07 PM - Knödlseher Jürgen

- Status changed from New to Pull request

#5 - 02/17/2020 04:55 PM - Knödlseher Jürgen

- Status changed from Pull request to Closed

Merged into devel.

Files

cspull_test.png	69 KB	02/05/2020	Cardenzana Josh
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