

Math 802: Intro to Course Tools

Nathan Albin

January 22, 2019

Before git

code_from_june

OLD_CODE_2

steves_version_2018

matrix_tools.py

matrix_tools_Dec_2018.py

matrix_tools_v2.py

run_test_2.py

run_tests.py

OLD_CODE

OLD_CODE_2(1)

working_2019_01_13

matrix_tools_Dec_2018 - Copy.py

matrix_tools_OLD.py


run_test.py


run_test_2_OLD.py

run_tests_broken.py

After git

 .git

 matrix_tools.py

 run_tests.py

```
$ git log
commit 83a257c9bc8e7ac48a520bd51a073c61dfbfff556 (HEAD -> master)
Author: Nathan Albin <albin@math.ksu.edu>
Date: Thu Jan 17 09:02:48 2019 -0600

    Fixed bug in 2x2 matrices.

commit 799572d76d146664294c85574171335b82b1715c
Author: Nathan Albin <albin@math.ksu.edu>
Date: Thu Jan 17 09:01:57 2019 -0600

    Changed the way tridiagonal matrices are stored.


commit b37ecb85e04fde0de158453446bc6bf49630b488
Author: Nathan Albin <albin@math.ksu.edu>
Date: Thu Jan 17 09:01:22 2019 -0600




    Added 2 more tests.








commit 4d9a294e3fb8bca22949fc761a893bf9b6fbf981
Author: Nathan Albin <albin@math.ksu.edu>
Date: Thu Jan 17 09:00:41 2019 -0600

    Initial version.
```

Managing repositories on GitHub





 **nathan-albin** / **modulus** Private

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Code for computing p -modulus on graphs. Edit










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 **70** commits  **5** branches  **0** releases  **1** contributor

Branch: **develop** New pull request Create new file Upload files Find file Clone or download

This branch is 38 commits ahead, 1 commit behind master. Pull request Compare

 **nathan-albin** Fixed broken examples. Latest commit 6d37978 on Jun 12, 2018

| | | |
|---|---|--------------|
|  big_tests/spanning_tree_tests | Attempted to implement both Cython and pure Python Goldfarb Idnani. | 7 months ago |
|  examples | Fixed broken examples. | 7 months ago |
|  goldfarb_idnani_basics | Renamed basics->goldfarb_idnani_basics. | 7 months ago |
|  img | Removed the git clone figures from README.md | a year ago |
|  jupyter | Added jupyter config file for non-vagrant users. | a year ago |
|  lib | Added tests for general p -modulus. | 7 months ago |
|  tests | Added tests for general p -modulus. | 7 months ago |
|  vagrant | Added CDD and triangle blocker example. | 9 months ago |
|  .gitignore | Added old Cythonized Goldfarb-Idnani back (optionally). | 7 months ago |

Static code analysis with pylint

```
(math802) C:\Users\natha\Desktop\tmp>pylint -f colorized my_code.py
***** Module my_code
my_code.py:1:25: C0326: No space allowed before bracket
def blah(x_value, _value ):
                ^ (bad-whitespace)
my_code.py:4:17: C0326: Exactly one space required after comma
    print(x_value,x_value)
                ^ (bad-whitespace)
my_code.py:6:0: C0304: Final newline missing (missing-final-newline)
my_code.py:1:0: C0111: Missing module docstring (missing-docstring)
my_code.py:1:0: C0111: Missing function docstring (missing-docstring)

-----
Your code has been rated at -2.50/10 (previous run: -2.50/10, +0.00)
```

Testing with pytest

```
(math802) C:\Users\natha\Dropbox\wrk\teaching\MATH802\MATH802S19\assignments\release>pytest -v --tb=n
o 01-1d-elliptic-fd
===== test session starts =====
platform win32 -- Python 3.7.1, pytest-4.1.0, py-1.7.0, pluggy-0.8.1 -- C:\Users\natha\Miniconda3\env
s\math802\python.exe
cachedir: .pytest_cache
rootdir: C:\Users\natha\Dropbox\wrk\teaching\MATH802\MATH802S19\assignments\release, inifile:
collected 13 items

01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_2[D-D] FAILED [ 7%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_2[D-N] FAILED [ 15%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_2[N-D] FAILED [ 23%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_4[D-D] PASSED [ 30%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_4[D-N] PASSED [ 38%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_system_4[N-D] PASSED [ 46%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_2[D-D] FAILED [ 53%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_2[D-N] FAILED [ 61%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_2[N-D] FAILED [ 69%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_4[D-D] FAILED [ 76%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_4[D-N] FAILED [ 84%]
01-1d-elliptic-fd/test_elliptic_tools.py::test_poisson_solver_4[N-D] FAILED [ 92%]
01-1d-elliptic-fd/test_fd_tools.py::test_fd_vandermonde PASSED [100%]

===== 9 failed, 4 passed in 0.35 seconds =====
```