

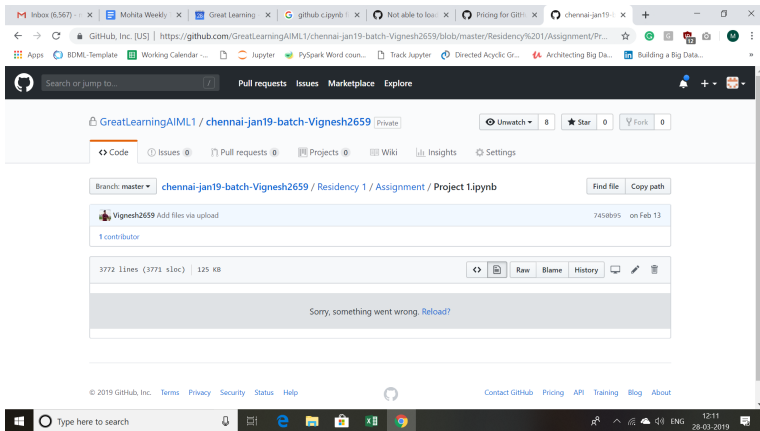
Café LoOPS - notebooks rendering

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What were the problems ?

- How to be sure notebooks are not broken by a commit ?
- Broken render message:



The screenshot shows a web browser window displaying a GitHub repository page. The browser's address bar shows the URL: `https://github.com/GreatLearningAIML1/chennai-jan19-batch-Vignesh2659/blob/master/Residency%201/Assignment/Pr...`. The repository name is `GreatLearningAIML1 / chennai-jan19-batch-Vignesh2659`. The file path is `chennai-jan19-batch-Vignesh2659 / Residency 1 / Assignment / Project 1.ipynb`. The file is 125 KB and has 3772 lines (3771 sloc). The render message is: "Sorry, something went wrong. Reload?".

How to be sure notebooks are not broken by a commit ?

cf. [.circleci/config.yml](#)

```
for notebook in *.ipynb
do
  echo "Processing $notebook file..."
  jupyter nbconvert --to notebook \
    --inplace --execute $notebook
done
```

Other iPython notebooks render tools

- [Jupyter nbviewer](#)
 - ... usage is limited




JUPYTER FAQ

503 : Service Unavailable

GitHub API rate limit exceeded. Try again soon.

[Read the FAQ for more information.](#)

Other iPython notebooks render tools

- Binder
 - requires a [.binder/environment.yml](#) file
 -  launch binder
 - ... can be slow to be installed

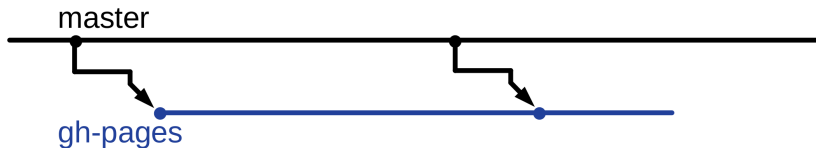
Render html from notebooks

cf. [.circleci/config.yml](#)

```
for notebook in *.ipynb
do
  echo "Processing $notebook file..."
  jupyter nbconvert --to html \
    $notebook
done
```

GitHub pages

Deploying documentation to github pages with CI



gh-pages node.js module

cf. [.circleci/config.yml](#)

```
notebook-html-deploy:
```

```
  docker:
```

```
    - image: node:8.10.0
```

```
  steps:
```

```
    - checkout
```

```
    - attach_workspace:
```

```
      at: _doc
```

```
    - run:
```

```
      name: Install and configure dependencies
```

```
      command: |
```

```
        npm install -g --silent gh-pages@2.0.1
```

```
        git config user.email "gudhi-ci@lists.gforge.inria.org"
```

```
        git config user.name "gudhi-ci"
```

```
    - run:
```

```
      name: Deploy docs to gh-pages branch
```

```
      command: gh-pages --dist _doc/html
```


ERROR: The key you are authenticating with has been marked as read only.

- Create SSH key

```
ssh-keygen -t rsa -b 4096 -C "gudhi-ci@lists.gforge.inria.fr"
# Accept the default of no password for the key (This is a
# Choose a destination such as 'docs_deploy_key_rsa'
```

- Add a SSH key

cf. [.circleci/config.yml](#)

steps:

- add_ssh_keys:
fingerprints:
 - "a2:9d:91:b2:4d:ef:4c:95:d3:75:fb:dc:56:d0:67:c3"

Final fixups

cf. [.circleci/config.yml](#)

```
steps:
```

```
...
```

```
- run:
```

```
  name: Disable jekyll builds
```

```
  command: |
```

```
    touch _doc/html/.nojekyll
```

```
...
```

```
- run:
```

```
  name: Deploy docs to gh-pages branch
```

```
  command: |
```

```
    gh-pages --dotfiles --message "[skip ci] Update" \  
      --dist _doc/html
```

Conclusion