

The FastHTML Dairies

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2024-11-25

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Preface

This is supposed to be an experiment to use Quarto & GH Actions to document my journey in exploring the fastHTML ecosystem.

Why fastHTML? I suppose it is inspired by the fact that Jeremy Howard feels it is the best way to create web apps & I want to explore if I can create web apps that are oriented towards data science applications.

The idea is to figure out a way to rapidly create data applications & dashboards within the GH ecosystem.

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

2 Quarto

How to create a project in Quarto and have it executed and deployed in GH using Github Actions without any local processing.

GH Actions is working but now need to create a preview local & then upload it fully there.

- 0) <https://www.youtube.com/watch?v=arzBRW5XIkg>
- 1) Create `fbook` book project in quarto
- 2) No need to render it locally. Perhaps only preview.
- 3) `git init` & add required token, `user.name` & `user.email`
- 4) Create repo on GH `fbook`
- 5) Type this:

```
git remote add origin https://github.com/fortunewalla/fbook.git
git branch -M main
```

- 6) `git add .` & `git commit -m "initial"` & `git push -u origin main`
- 7) `git add .` & `git commit -m "initial"` & `git push --set-upstream origin main`
- 8) Create `gh-pages` branch in GH repo.
- 9) `mkdir` & create file `.github/workflows/publish-quarto.yml`
- 10) GH Actions File. Don't copy the file from GH Actions Samples Example repo. It has some YAML error. The below works.

```
on:
  workflow_dispatch:
  push:
    branches: main
name: Quarto Publish
jobs:
  build-deploy:
```

```

runs-on: ubuntu-latest
permissions:
  contents: write
steps:
  - name: Check out repository
    uses: actions/checkout@v4

  - name: Set up Quarto
    uses: quarto-dev/quarto-actions/setup@v2
    env:
      GITHUB_TOKEN: ${ secrets.GITHUB_TOKEN }
    with:
      tinytex: true

  - name: Install Python and Dependencies
    uses: actions/setup-python@v5
    with:
      python-version: '3.10'
      cache: 'pip'
  - run: pip install jupyter
  - run: pip install -r requirements.txt

  - name: Install R
    uses: r-lib/actions/setup-r@v2
    with:
      r-version: '4.4.1'

  - name: Install R Dependencies
    uses: r-lib/actions/setup-renv@v2
    with:
      cache-version: 1

  - name: Render and Publish
    uses: quarto-dev/quarto-actions/publish@v2
    with:
      target: gh-pages
    env:
      GITHUB_TOKEN: ${ secrets.GITHUB_TOKEN }

```

10) Add requirments.txt file in root with matplotlib

11) Add renv.lock file in root.

```

{
  "R": {
    "Version": "4.4.1",
    "Repositories": [
      {
        "Name": "CRAN",
        "URL": "https://cloud.r-project.org"
      }
    ]
  },
  "Packages": {
    "markdown": {
      "Package": "markdown",
      "Version": "1.0",
      "Source": "Repository",
      "Repository": "CRAN",
      "Hash": "4584a57f565dd7987d59dda3a02cfb41"
    },
    "mime": {
      "Package": "mime",
      "Version": "0.12.1",
      "Source": "GitHub",
      "RemoteType": "github",
      "RemoteHost": "api.github.com",
      "RemoteUsername": "yihui",
      "RemoteRepo": "mime",
      "RemoteRef": "main",
      "RemoteSha": "1763e0dcb72fb58d97bab97bb834fc71f1e012bc",
      "Requirements": [
        "tools"
      ],
      "Hash": "c2772b6269924dad6784aaa1d99dbb86"
    }
  }
}

```

11.1) Fill up the `requirements.txt` & `renv.lock` based on your needs. The above are put just to make the workflow finish up.

11) `git add .` & `git commit -m "added publish-quarto.yml"` & `git push -u origin main`

12) GH Settings -> Pages -> Branch change to `gh-pages` & directory as `/root` and then save.

13) It will start building & deploying to **gh-pages**

3 Summary

In summary, this book has no content whatsoever.

References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.