Create and Publish Websites with Quarto

Using GHA Upload

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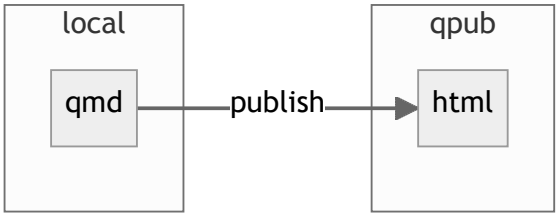
Overview

- Quarto Pub
- GitHub Pages
  - Render to `docs`
  - `quarto publish`
  - GitHub Action
    - quarto-actions
    - deploy-pages

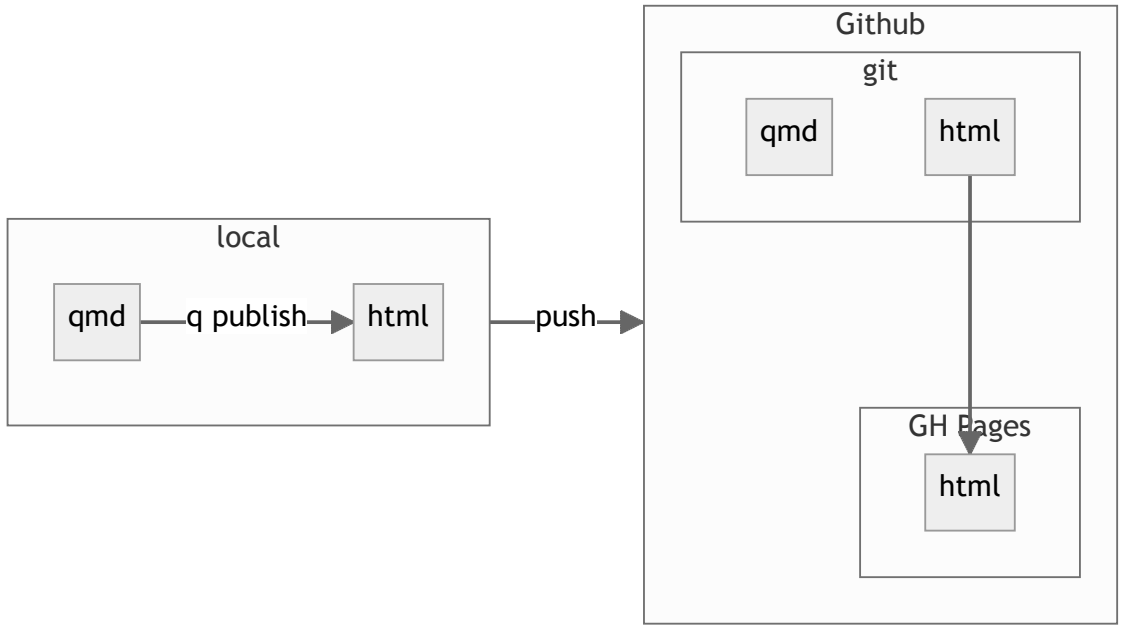
Quarto Pub

Just works.



Can set up as a default page.

GH Pages render to docs



Requires 2 config changes and 2 actions.

- Change _quarto.yml
- Render `doc`
- Push `doc` to GH
- Change GH config to display `doc`

Change _quarto.yml

```yaml
project:
  type: website
  output-dir: docs
```

Render doc

```
quarto render
```

Push rendered site to GH

```
git add docs
git commit -m "Publish site to docs/"
git push
```

Change GH pages config

Live Demo.

Reminder: change Title Slide

GH Pages quarto publish

Requires config change, one one-off action and one action to publish.

- Set up gh-pages branch (one-off)
- Change GH config to display `gh-pages` branch
- `quarto publish gh-pages`

Set up gh-pages branch

```
git checkout --orphan gh-pages
git reset --hard # make sure all changes are committed before running this!
git commit --allow-empty -m "Initialising gh-pages branch"
git push origin gh-pages
```

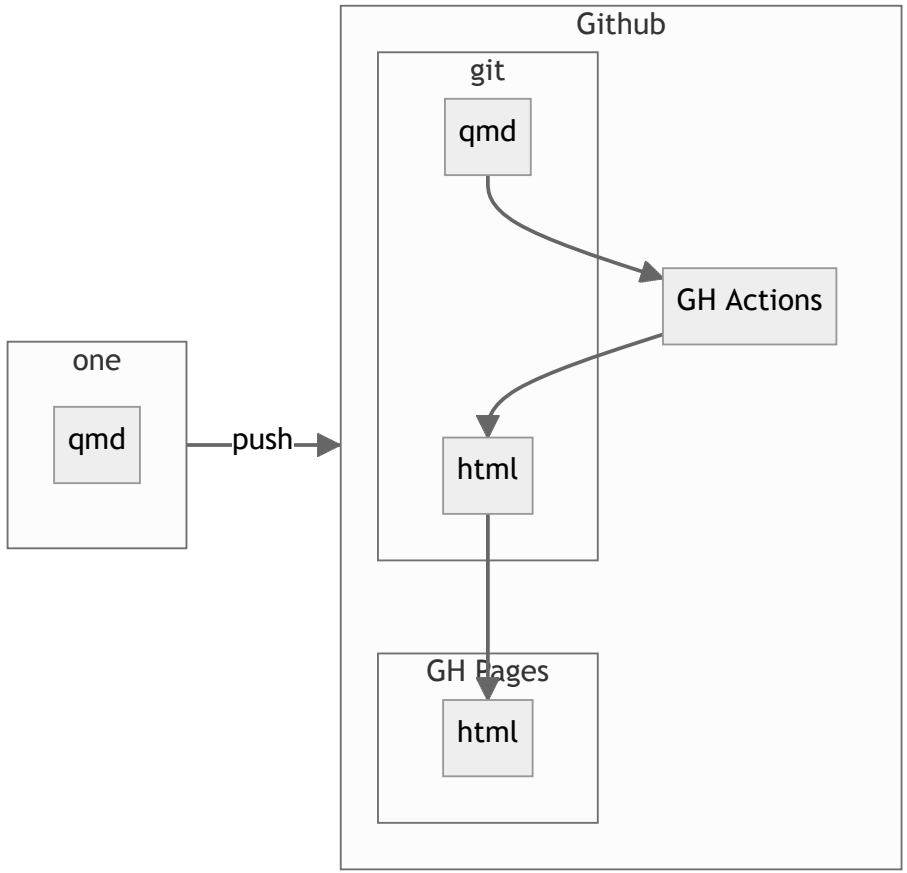
Change GH config to display `gh-pages` branch

Live demo

quarto publish gh-pages

```
quarto publish gh-pages
```

GH Pages GH Actions quarto-actions



Requires config change,

- Set up gh-pages branch (one-off)
- Change GH config to display `gh-pages` branch
- GH Actions `quarto publish gh-pages`

GHA yaml - triggers

```yaml
on:
  workflow_dispatch:
  push:
    branches: main
  pull_request:
    branches:
      - main
```

Freeze

Just any graph to trigger freeze

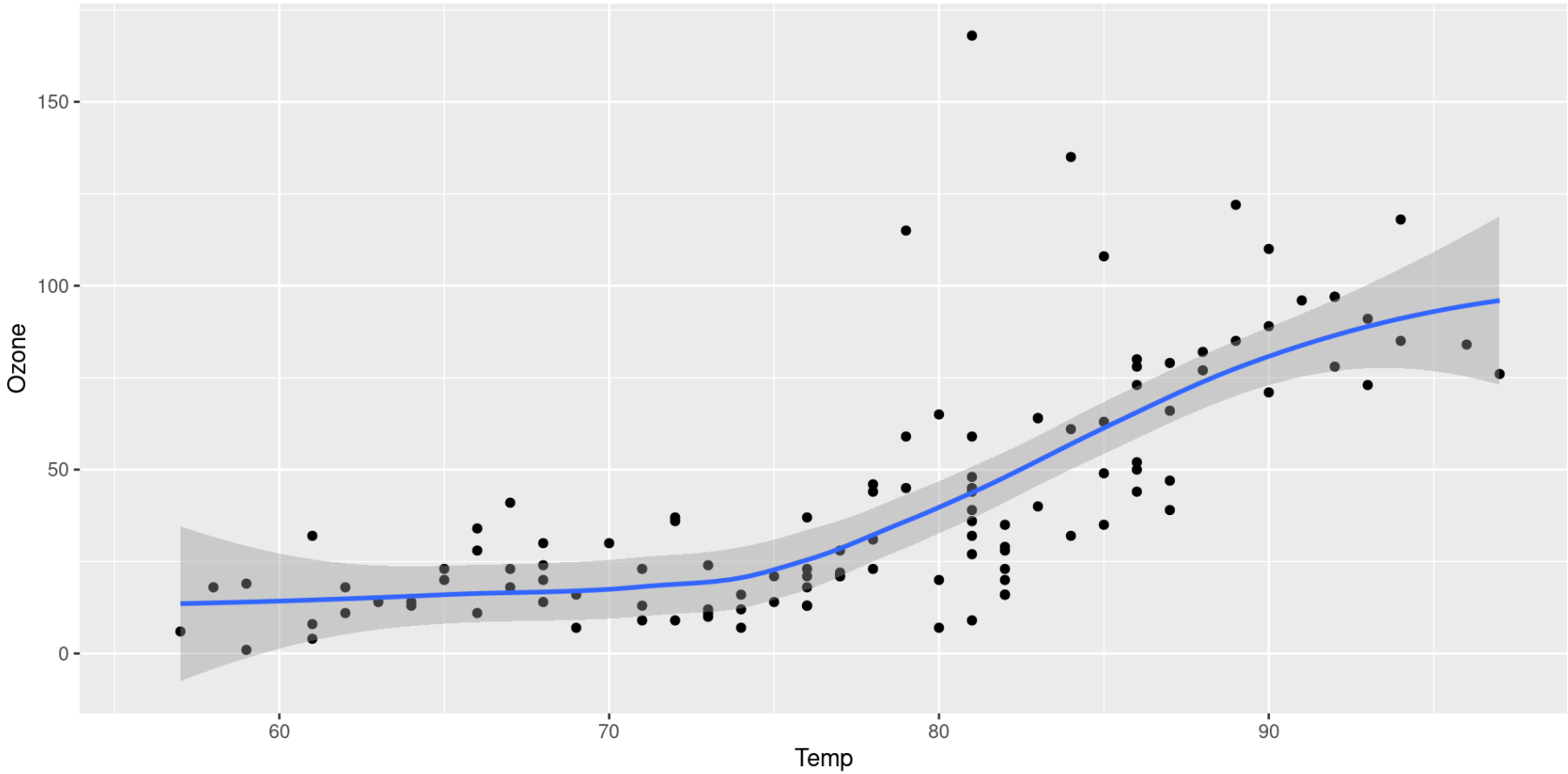
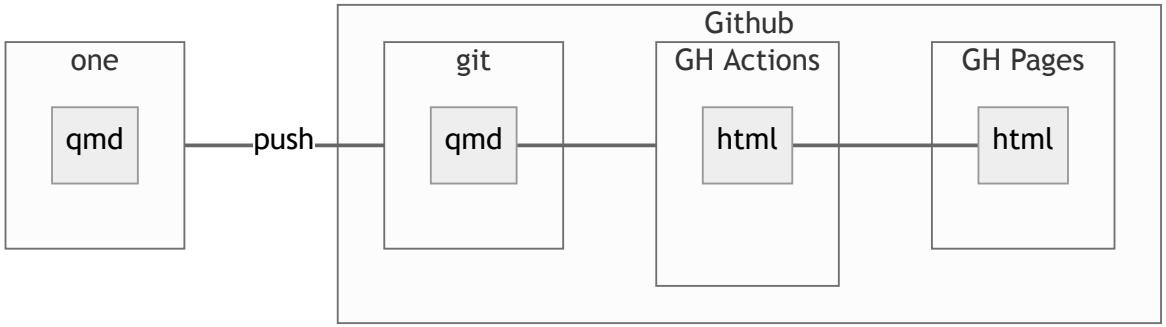


Figure 1: Temperature and ozone level.

GH Pages GH Actions deploy-pages