Effectiveness of Tool: GitHub-default-branch - Samvera Branch Renaming Working Group

- Setup
  - Tool: gitHub-default-branch
    - Reference:
    - Usage:
    - Checklist:
    - Additional areas not tested
    - Case Study: samvera-circleci-orb:

Setup

- Create a test repo with a master branch, issues, PRs - See samvera-labs/branch-renaming-wg for a script to do this.
- Within the test repo, create a wiki page that references a branch in master.
- Within the test repo, add branch settings under Settings  Branches
- Create a Fork of the test repo.
- Clone the test repo to your local machine.
- Clone the Fork to your local machine.
- Create a second repo with a pin in the Gemfile to a master sha in the repo having the branch renamed

Tool: gitHub-default-branch

Reference:

- https://github.com/mheap/github-default-branch

Usage:

- install with

  ```
  npm install -g github-default-branch
  ```

- run with

  ```
  github-default-branch --pat <github_access_token> --repo <github_username>/branch-renaming-test
  ```

- Once complete, all local clones will need to run the following to update their master branch to be connected to origin/main

  ```
  From the directory for the local clone...
  git checkout master
  git pull
  git -m master main
  ```

  NOTE: git fetch is not sufficient. You need to use git pull for this to work.

Checklist:

- renames master to main
  - branch dropdown defaults to main
master is not in the branch dropdown

- Settings Branches
  - main is the default branch
  - branch rules were copied over to main
  - master branch is not in the branch dropdown under Default branch
  - master branch is not listed in the Branch protection rules area

- updates issues
  - changes reference to a sha in master to the same sha in main
  - changes links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.)

- updates PRs
  - updates 'commit into' branch to main for all PRs (NOTE:
  - updates links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.)

- wiki updated
  - updates links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.)

- local git repo
  - updates to local master tracking origin/master to local main tracking origin/main
  - updates branches based on origin/master to origin/main
  - updates branches based on local master to local main
  - in second repo, updates pin to master sha in the repo having the branch renamed

- working with Forks
  - TBD

Additional areas not tested

- automated builds and deployments that reference master branch
  - building images that aren't from tags but from branches
  - Jenkins
  - Ansible

- other tooling that references master branch
  - git aliases
  - local shell scripts
  - maintenance scripts for github API
  - git reflow or other 3rd party tools

- Integrations
  - Github hooks, coveralls, code climate, hound, circleci
  - mirroring with other sources (e.g. gitlab mirroring github)
  - notifications to tools (e.g. slack integration)

- documentation (eg. raw.github.com URLs)
  - wikis
  - READMEs
  - samvera.github.io
  - samvera.org
  - github pages for the project
  - Contributing

- references to master in code
  - Gemfile pins
  - To possible JSON documents in Github repos

- forks
  - Within "usual" contributors
  - Other "users"
    - In particular, Browse Everything has utility outside of Samvera's adopters

Case Study: samvera-circleci-orb:

https://github.com/samvera-labs/samvera-circleci-orb/issues/45

Ran:
Checklist:

- renames master to main
  - branch dropdown defaults to main
  - master is not in the branch dropdown

- Settings Branches
  - main is the default branch
  - branch rules were copied over to main
  - master branch is not in the branch dropdown under Default branch
  - master branch is not listed in the Branch protection rules area

- updates issues
  - changes reference to a sha in master to the same sha in main (N/A)
  - changes links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.) (See https://github.com/samvera-labs/samvera-circleci-orb/issues/29)

- updates PRs
  - updates 'commit into' branch to main for all PRs (NOTE:
    - updates links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.) (N/A)

- wiki updated
  - updates links to code in master branch to the same code in main (NOTE: Even though the link text and URL were not changed, GitHub forwards all 404 to the default branch which is main.) (N/A)

- local git repo (None as expected)
  - updates to local master tracking origin/master to local main tracking origin/main
  - updates branches based on origin/master to origin/main
  - updates branches based on local master to local main
  - in second repo, updates pin to master sha in the repo having the branch renamed

- working with Forks
  - TBD (One exists but no noticeable changes as expected)

- README and other documents (Untested - Already done in https://github.com/samvera-labs/samvera-circleci-orb/commit/dda15dde353dc8303382507ab5601757bd3651b8)

- Integrations:
  - CircleCI (Ran fine after rebasing a PR)

Locations text "master" still exists (mostly found via github search):

- Comments on PRs about repointing to main from tool running
- Links to code outside this repository
- Issues and PRs related to the renaming
- Closed PRs (not in github search)