



Implementing change in CF:
An idea's journey

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#### **Contents**

 How are changes made to the CF Conventions?

How is this implemented in GitHub?

What improvements might we introduce?

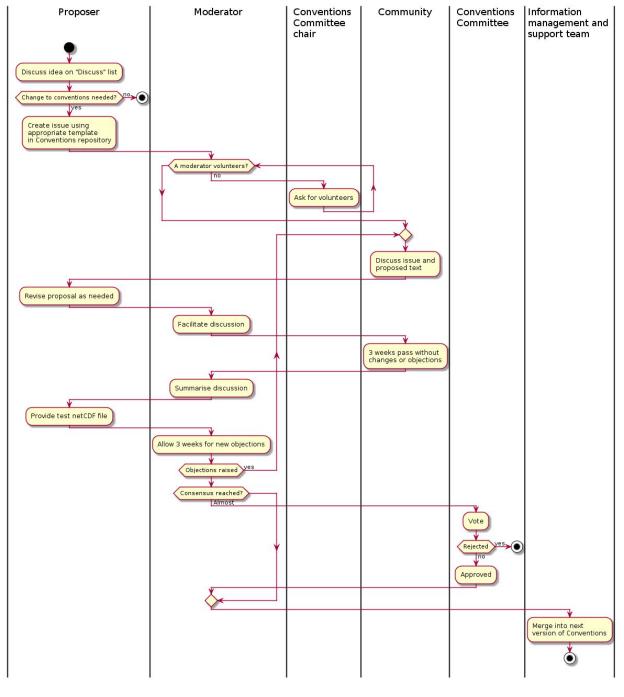


#### Changes: Process spec

Text form in Rules

• Fear not! This is actually pretty straightforward

Exception: Errata



#### Implementation in GitHub

- This is a snapshot, see the repository's CONTRIBUTING.md for current rules
- Issue is discussed in a single issue
- Text proposal is a pull request
- Moderator volunteers to guide discussion
- After content of pull request is agreed, it is merged



#### Implementation in GitHub: Example

- Blue sky discussion on Discuss
  - Volunteers swarm and begin work via issue, telcon, etc.
- Proposal issue on Conventions all discussion goes here
- <u>Linked pull request proposing text</u> review of changes takes place here (diffs and artefacts available)
- After discussion is concluded, a successful proposal is merged for the next release
- Throughout: Guidelines in CONTRIBUTING.md should help you!



#### What could be improved?

- Process improvements:
  - 1. Clarify when netCDF sample data is needed
  - 2. ?: Work packaging a release could be "shifted left"
  - 3. ?: Streamline the "3 week rules"
- Technical issues based off #267:
  - 1. Easy to lose track a proposal's status
  - 2. Hard to recognize what changed and why
  - 3. Reduction of technical debt via use of aliases
    - also potential for general cleanup



#### Process improvement: 1. Sample data

- Currently sample netCDF files are needed in all cases. This is not always enforced.
  - Specify when it is (not) needed?

#### Process improvement: 2. Packaging earlier

 When a release is created, the changelog is updated and authors are added to the Conventions. Should this be done as part of the Pull Request?

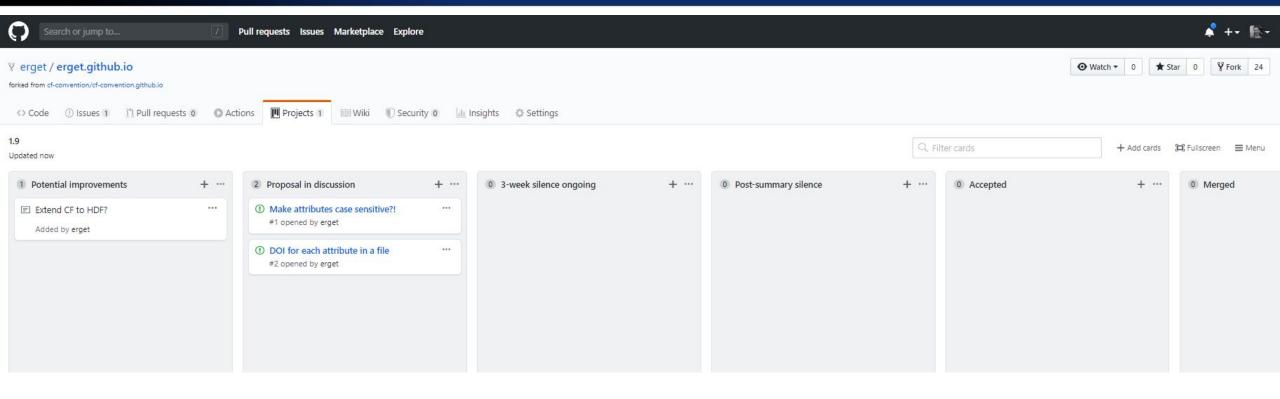


#### Process improvement: 3. The long silence

- The Rules specify 2 periods of 3 weeks silence each before a merge
  - Waiting for further contributions
  - Waiting for objections following the moderator's summary
- This inserts 2 time-triggered events into the workflow
- It might be better to request the summary and require silence thereafter only

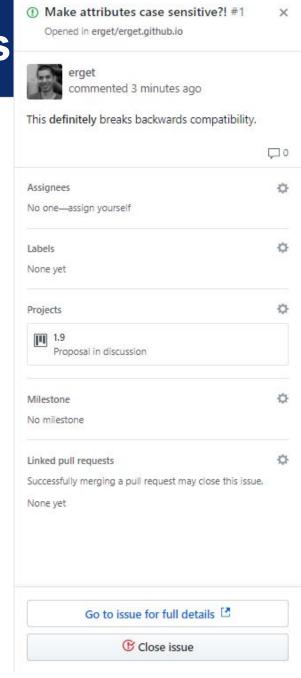


#### Technical improvements: 1. Proposal status



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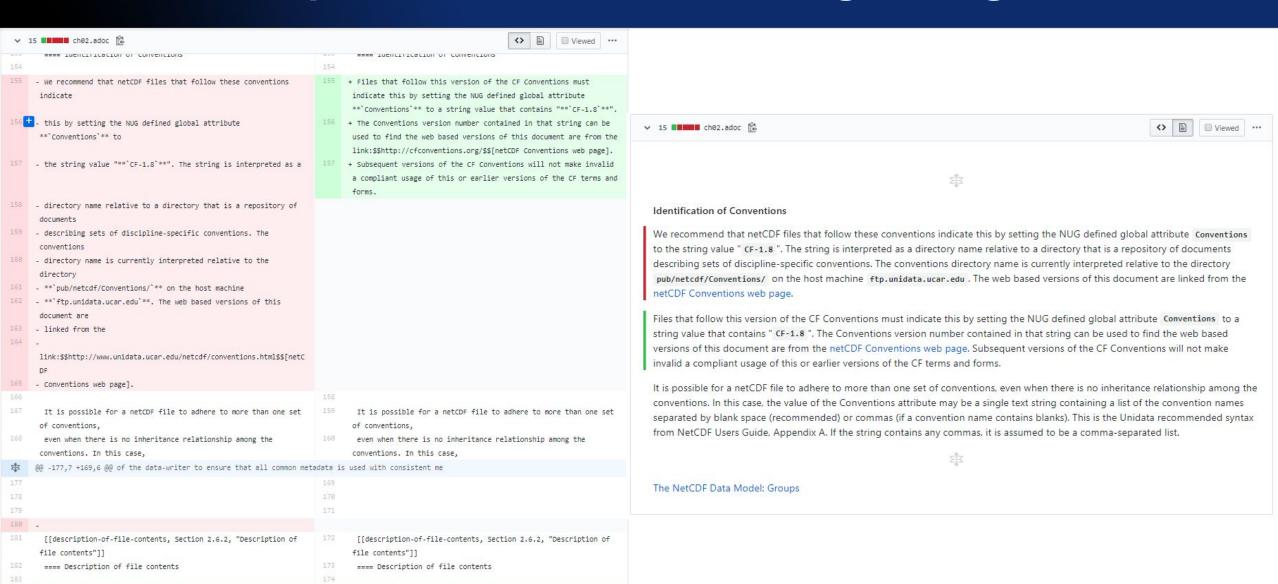
- Issues are treated as "cards" that transition status along columns
- This reveals at a glance where an issue is located in its lifecycle without having to parse the comment thread
- Cards are "pulled" along horizontal axis



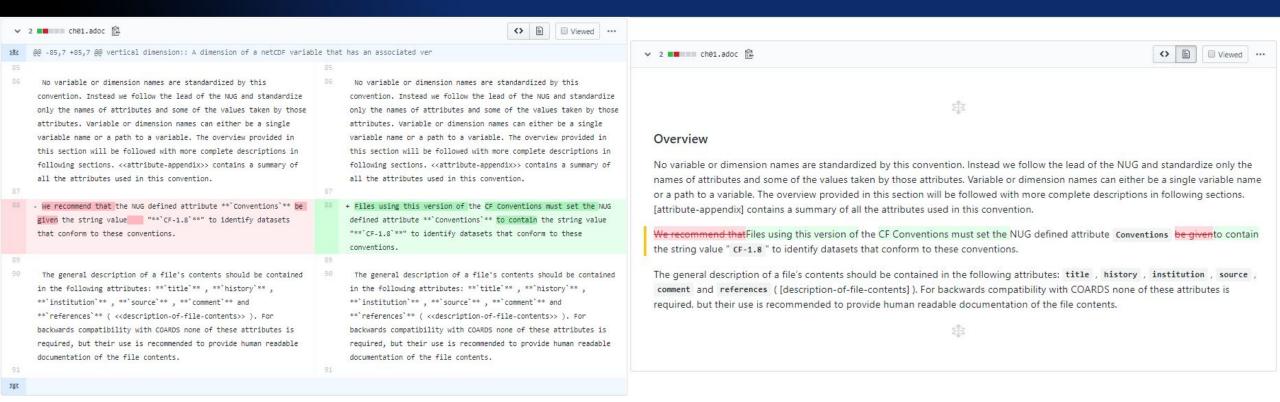


### Technical improvements: 2. Following changes 😕





#### 



# Line flowTrailing whitespace



#### Technical improvements: 3. Maintainable links

Recent PR adjusted the same link.
 60 lines touched.

```
- __Notes:__:: Notes on using the **`PROJ.4`** software package
for computing the mapping may be found at

- __Notes:__:: Notes on using the **`PROJ`** software package for computing the mapping may be found at

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+ link:$$https://proj.org/operations/projections/laea.html$$[http://proj4.org/
projections/laea.html]

**PROJ`** software package for computing the mapping may be found at

+ link:$$https://proj.org/operations/projections/laea.html$$[http://proj4.org/
projections/laea.html]
```

- An alias would have reduced that by a lot
- We have a lot of links to maintain!

```
http://cfconventions.org/Data/cf-conventions/cf-conventions-1.8/cf-conventions.html
100% scanned - 131/131 URLs checked, 111 OK, 20 failed
Scan completed with 20 errors. Full report Retry dead links
```

- · Check multiple sites at the same time free login or sign up for a free account.
- Check sites automatically on a regular basis with the Auto-Checker see options.



## Way forward

•Big bang?

•Adjust when touched?

•Leave as-is?

