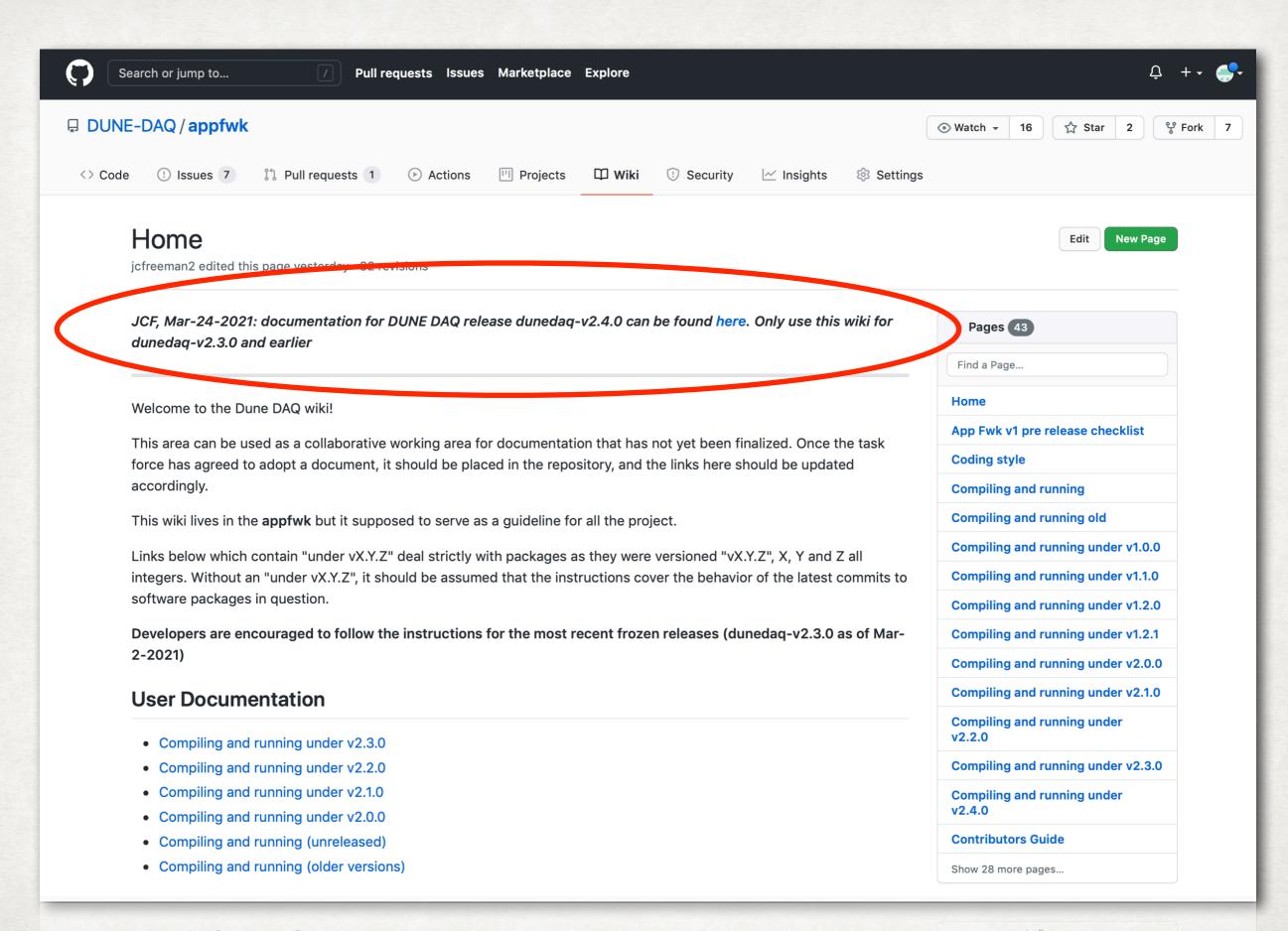
TOWARD OFFICIAL DUNE DAQ SOFTWARE DOCUMENTATION

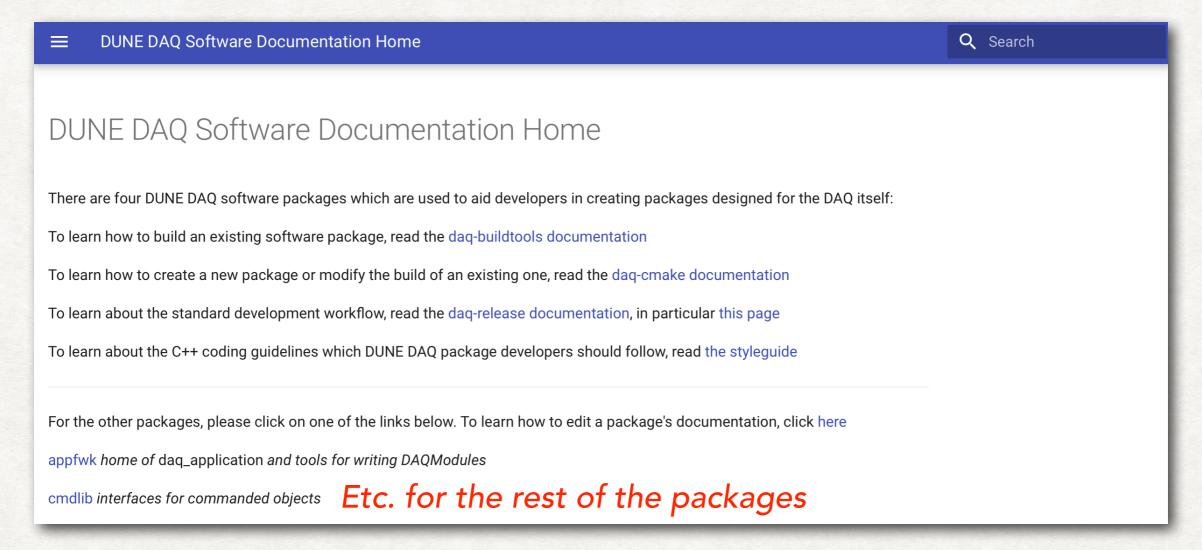
JOHN FREEMAN MAR-29-2021

CURRENT SITUATION

- For the last year, the de-facto homebase of the DUNE DAQ software documentation has been the appfwk GitHub Wiki
- Has provided versioned links to Wiki pages covering daq-buildtools ("Compiling and running") and daq-cmake ("Creating a new package") which have been regularly maintained by the Software Coordination Group
- Also contains links to numerous pages which became obsolete months ago and sometimes weren't even completed
- Documentation for other packages found in their READMEs and/or GitHub wikis
 - Not always versioned or kept up to date, and the purpose of the information has varied (notes for developers, meeting minutes, etc.)
- In this talk I'll describe the new, official home of the DUNE DAQ software documentation and how we can fill it out



HTTPS://DUNE-DAQ-SW.READTHEDOCS.IO/EN/LATEST/



- At the top, links to documentation for packages designed to help develop DAQ-focused packages
- Then alphabetical list of DAQ-focused packages
- · Goal is that users can click on any package's link and get the info they need

CONCERNING THE TECHNOLOGY

- We thought about a couple of different technologies, and went with ReadTheDocs to display our documentation, using MkDocs to generate the html from Markdown
- You can use Markdown in your GitHub repo's page to edit your documentation (known syntax, ability to preview documentation)
- My favorite quotes from readthedocs.org:
 - "We will host your documentation for free, forever."
 - "We can host and build multiple versions of your docs."

THE DOCS REPO

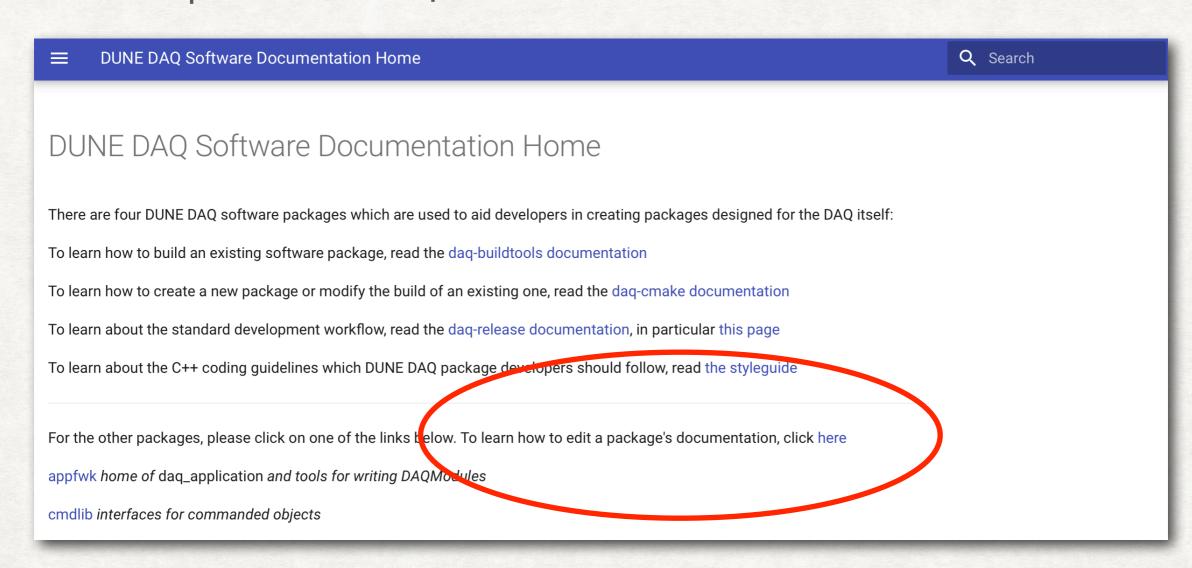
- A couple of weeks ago, we created a new repo called "docs"
- Whenever a change gets pushed to docs, ReadTheDocs can (via MkDocs) re-generate the documentation
- We run a script which grabs the documentation from each repo and sticks it in docs → this is how your edits become the perpackage documentation on the official website
- Can be versioned. Technically, the website is currently the head of docs' develop branch, but we can also have versions in the future (e.g., https://dune-daq-sw.readthedocs.io/en/dunedaq-v2.4.1, https://dune-daq-sw.readthedocs.io/en/dunedaq-v2.6.0, etc.)

THIS IS WHERE YOU COME IN

- The script expects that:
 - Your repo has a subdirectory called docs/ (not to be confused with the repo named docs)
 - Its homepage is in docs/README.md _will display in GitHub
 - Other pages are Markdown files in docs/; they can be linked to from docs/ README.md
- Step 1 (timescale one week): move any existing README.md into your (new?) docs/directory and copy your GitHub Wiki pages into it (Issues will be filed)
- Can see, e.g., the johnfreeman/dont-readme branch of minidaqapp for an example of Step 1
- Can perform edits of docs/*.md files on your repo's GitHub page and hit "Preview" to check for syntax errors

MORE DETAILS ON HOW TO DOCUMENT

• From https://dune-dag-sw.readthedocs.io/en/latest/, click here:



THIS IS WHERE YOU COME IN, PT. 2

- Step 2 (timescale a couple of weeks, for dunedaq-v2.4.1 release): provide the first official version of your package's documentation for users
- Things to think about:
 - "Have I minimized the number of emails I'll receive from users with questions about this package?"
 - "Is this existing page more appropriate for the official documentation (user-facing), or for the GitHub wiki (developer-facing)?"
 - "Do I want this link on my page to still point to that package's GitHub page, or should it now point to its official page?"

• ...

CONCLUSIONS

- For each package, for each version, we want a reliable source of information for its users
- For those writing their package's documentation, steps 1 and 2
 await. This talk, https://dune-daq-sw.readthedocs.io/en/latest/editing_package_documentation/, and myself will all be resources which can help.