





High Rate Analysis Documentation: First Steps

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Why a documentation?

Several reason, mainly:

- Development:
 - ► Keep track of changes
 - Uniform different structures and contents
 - Continuous cross-checks between people and adopted procedures
- Final deliverable: to allow external people to use the infrastracture without hassles
- ► KPI2.2.2.2 to fulfill: > 1 *dedicated website*









Tool Comparison

Main idea: keep everything in one place, i.e. HighRateAnalysis-WP5

Wiki

- Contents are stored in some sort of side-repository (like GitLab)
- Automatically online
- Limited to pure Markdown
- No requirements
- ▶ No compilation

Jupyter Book

- Contents in a dedicated folder docs of the main repo
- GitHub-Page feature need to be activated
- Flexible and advanced Markdown
- One package to install (Docker image available, if needed):
 pip install jupyter-book
- One command to generate html files, automatically done by a GitHub workflow







Preview

- Input material mainly from Tommaso Tedeschi slides
- Prototype built from scratch (in a private repo), ready to be migrated to HighRateAnalysis-WP5
- Pull Request ready to be submitted: 1 folder + 1 workflow yml file



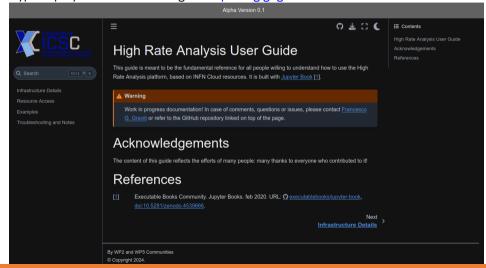








Prototype deployed with GitHub Pages: https://frgigr.github.io/testbook/sections/intro.html











A few extras



On the left: General *Table of Contents* + Search function



On the right: *Table of Contents* for the current page



On top of the page:

- One banner for general announcements
- 4 buttons:
 - Links to the *GitHub repo* and *Issues* tab
 - Download the full guide as pdf (suggested) or markdown
 - Full screen mode
 - Night/Day mode







Workflow

- Implementation quite straightforward, but not as GitLab. Added comments for every step
- Dependencies: Python only
- ► Two main jobs defined:
 - Setup the environment and build the project
 - 2. Deploy the website using the generated files
- Possibility to trigger the workflow when pushing to a dedicated branch, currently main
- Basically ready, no need to touch it unless to upgrade versions







Conclusions

- First draft of documentation ready!
- Developed with Jupyter Book and deployed with GitHub pages: https://frgigr.github.io/testbook/sections/intro.html
- Completely automatic deployment and a Docker image is available for development, if you don't want to pollute your computer
- Just one click to submit a Pull Request to the HighRateAnalysis-WP5
- ► This is my personal choice, feel free to adopt/reject it
- Every kind of feedback/contribution is more than welcome!