

Proposal for new organization of the documentation

General actions to achieve:

1. Remove current Wiki
2. Re-organize current README and github pages
3. Add new contents to documentation
4. Remove obsolete content from final documentation:
 - a. Wiki > Installation instructions > Binary packages
 - b. Wiki > Using Sun CC on Solaris
 - c. Wiki > Galleries and Examples

1. New organization proposal

Legend:

- **new**
A new section will be created
- **old-readme**
Copy corresponding content from current README at <https://github.com/fract4d/qnofract4d/blob/master/README.md>
- **old-wiki**
Copy corresponding content from current Wiki at <https://github.com/fract4d/qnofract4d/wiki>
- **old-gh-pages**
Copy corresponding content from current github pages at <https://fract4d.github.io/qnofract4d/>
- **new-user-manual**
New content related to regular users, composed by:
 - Program limitations
Explanation about the type precision limit, which causes software to limit zoom feature.
 - Comparison with similar software
Compare Gnofract to Ultrafractal and XaoS
 - Product history
Brief explanation about last 20 years regarding to current repo

- Theory and mathematical background
Explanation about the iterative principle and main Mandelbrot/Julia differences. Also expose interesting links to resources.
- **new-dev-manual**
New content related to developers, composed by:
 - Introduction (technical onboarding)
 - Algorithms
 - Data structures
 - Installation using docker

1.1 New structure

1. README

- a. About this Program **old-readme**
- b. Basic Installation
Notes: these instructions are for a regular user to install application on a Linux system
 - i. General instructions & dependencies **old-readme old-wiki > Installing From Source**
 - ii. Install on Ubuntu 15.04 **old-wiki**
 - iii. Install on Ubuntu 16.04 and later supported releases **old-wiki**
- c. Link to GH PAGES **new**
- d. Link to User Manual **new**
- e. Link to Developer Manual **new**

2. GH PAGES

- a. What is Gnofract 4D? **old-gh-pages**
 - i. Download
 - ii. Code, Docs and Issues
 - iii. User Manual **new**
 1. Installation **new**
 - a. Installation on Linux
Copy from NEW README > Basic Installation
 - b. Installation on FreeBSD **old-wiki**

- c. Installation on MAC OS X [old-wiki](#)
- 2. Introduction [old-gh-pages > manual](#)
 - a. Using Gnofract 4D
 - b. Interacting with the Fractal
 - c. Working with Files
- 3. Tools [old-gh-pages > manual](#)
 - a. Autozoom
 - b. Explorer
 - c. Formula Browser
 - d. Director
 - e. Randomize Colors
 - f. Painter
- 4. Toolbar buttons [old-gh-pages > manual](#)
- 5. Changing Fractal Settings [old-gh-pages > manual](#)
 - a. Fractal Settings
 - b. Preferences
- 6. Hints [old-gh-pages > manual](#)
- 7. Command Reference [old-gh-pages > manual](#)
- 8. About the math [old-gh-pages > manual](#)
 - a. The Mandelbrot Set
 - b. The Julia Set
 - c. The Julibrot
 - d. Viewing in Four Dimensions
 - e. Hypercomplex Fractals and Quaternions
- 9. Writing Your Own Functions [old-gh-pages > manual](#)
 - a. Writing Your First Formula
- 10. Formula Language Reference [old-gh-pages > manual](#)
- 11. Gnofract 4D Internals

- a. Source Code Layout [old-gh-pages > manual](#)
 - b. Compiler [old-gh-pages > manual](#)
 - c. Threading [old-gh-pages > manual](#)
 - d. Program limitations [new-user-manual](#)
 - e. Comparison with similar software [new-user-manual](#)
 - f. Product history [new-user-manual](#)
 - g. Theory and mathematical background [new-user-manual](#)
12. FAQ [old-wiki > faq](#)
13. Bugs and Known Issues [old-gh-pages > manual](#)
14. About Gnofract 4D [old-gh-pages > manual](#)
15. Credits and copyright [old-gh-pages > manual](#)
- iv. Developer Manual
- 1. Introduction [new-dev-manual > technical onboarding](#)
 - 2. Algorithms [new-dev-manual](#)
 - 3. Data structures [new-dev-manual](#)
 - 4. How to contribute [new](#)
 - a. Installation using Docker [new-dev-manual](#)
 - b. Testing [old-readme](#)
 - c. Linting [old-readme](#)
 - d. Generating Documentation [old-readme](#)
 - 5. FAQ [old-wiki > Compiler problems](#)
- v. Fast, Polished User Interface [old-gh-pages > manual](#)
- vi. Unlimited Variety [old-gh-pages > manual](#)
- vii. Innumerable Options [old-gh-pages > manual](#)
- viii. Four Dimensions [old-gh-pages > manual](#)