

Fourier Series - Changelog

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1 Changelog

2021-09-09

- Created GitHub repository
- Added Readme
- Read Wikipedia

Work time: 4.5 hours

2021-09-16

- Gantt
- Requirements Analysis
- Conceptual library structure

Work time: 4.5 hours

2021-09-22

- First Fourier 2D series draft
- Written abstract and scope

When the path is being drawn, sometimes the animation starts to play, as if I stopped drawing for a moment.

Work time: 4.5 hours

2021-09-23

- Continued Fourier series test code
- Updated documentation

Work time: 3.5 hours

2021-09-30

- Written discrete Fourier transform code
- Pause/Resume button
- Interactive timeline
- Code cleanup
- Imported MathJax

Work time: 4.5 hours

Fixed the drawing bug.

2021-10-07

- Modularity of the interactive boxes
- Created `Example.js` and `InteractiveBox.js`

The timeline does not work when moved around. Setting the value of the timeline to a value $[0;1]$ doesn't work even if it should.

Abstract functions don't exist in JavaScript. The 'abstract' functions throw an error unless they are over-written.

Work time: 4.5 hours

2021-10-14

- Modularity of the interactive boxes
- Complex plot of a given signal
- Files rearrangement

Work time: 4.5 hours

2021-10-21

- MathJax settings
- Implemented JavaScript Hierarchy
- Code Refactor
- Pause/Resume on visibility

The first point was being skipped. The time increment was wrong.

Optimizing complex plot drawing Using actual hierarchy in JavaScript classes. Using a function to detect whether the canvas is seen by the user, stop/resume the animation depending on this.

Work time: 4.5 hours

2021-10-28

- Written website content
- InteractiveBox library cleanup

Work time: 4.5 hours

2021-11-11

- Written website content

Work time: 4.5 hours

2021-11-18

- Written website content
- Started writing Fourier transform box

Work time: 4.5 hours

The Fourier transform box completely doesn't work.

2021-11-25

- Implementing a template for the website
- Formatting the website

Work time: 4.5 hours

2021-11-27

- Fit all the already written content into the template
- Written website content
- Imported Desmos dependency

Work time: 2.5 hours

2021-11-28

- Written website content
- Changed website colors

Work time: 1 hour

2021-12-03

- Removed junk files
- Written website content
- Fixed some css

Work time: 4.5 hours

2021-12-05

- CSS Styling
- SVG Background

Work time: 4 hours

2021-12-09

- Interactive Boxes CSS

Work time: 3 hours

2021-12-16

- Written website content
- CSS styling and colors
- Removed unused css classes
- Began translating documentation into LaTeX

I tried implementing the CSS snap-scroll effect, but it conflicted with the JS-driven scrolling buttons.

Work time: 5 hours

2021-12-18

- Added LaTeX files to `.gitignore`
- Removed junk files
- Implemented interactive boxes

Work time: 12 hours

2021-12-19

- Written documentation
- Written website content
- Fixed interactive boxes (JS)
- Fixes interactive boxes (CSS)

Work time: 10 hours

2021-12-20

- Translated changelogs to LaTeX
- Written documentation
- Fixed website typos

Work time: 2 hours

2021-12-21

- Written documentation
- Added image captions
- Fixed typos
- Fixed date formats

Work time: 4 hours

2021-12-22

- Written documentation
- Bibliography and sitography

Work time: 4 hours

2021-12-23

- Code documentation

Work time: 3 hours