

Sharpening your saw before cutting down the tree

– Personal development environment (PDE)

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Using git/github to track your progress

What is Git?

Basic Git Commands

What is GitHub?

Getting Started with Git and GitHub

Conclusion

Introduction to vi/vim/nvim

Gallery generated by Midjourney

Acknowledgement

What is Git?

- ▶ Distributed version control system
- ▶ Tracks changes to code over time
- ▶ Enables collaboration and easy rollback

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- ▶ Git and GitHub are powerful tools for managing code and collaborating with others
- ▶ By using Git and GitHub, you can easily keep track of changes to your code and work more efficiently with others
- ▶ Practice using Git and GitHub regularly to become proficient in using these tools

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- ▶ Decouples Vim from its legacy architecture to enable easier maintenance and extension
- ▶ Built-in support for features such as asynchronous plugins, better integration with terminals, and remote plugins

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History of Vim and NeoVim

- ▶ 1976 - vi is created by Bill Joy at UC Berkeley
- ▶ 1991 - Vim (Vi Improved) is released by Bram Moolenaar
- ▶ 2014 - NeoVim is forked from Vim by Thiago de Arruda and other developers
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Advantages of NeoVim

- ▶ Asynchronous plugins - Plugins can run in the background without blocking the editor
- ▶ Better terminal integration - Built-in terminal emulator for running shell commands
- ▶ Simplified configuration - NeoVim uses a Lua-based configuration system that is easier to read and write than Vim's configuration
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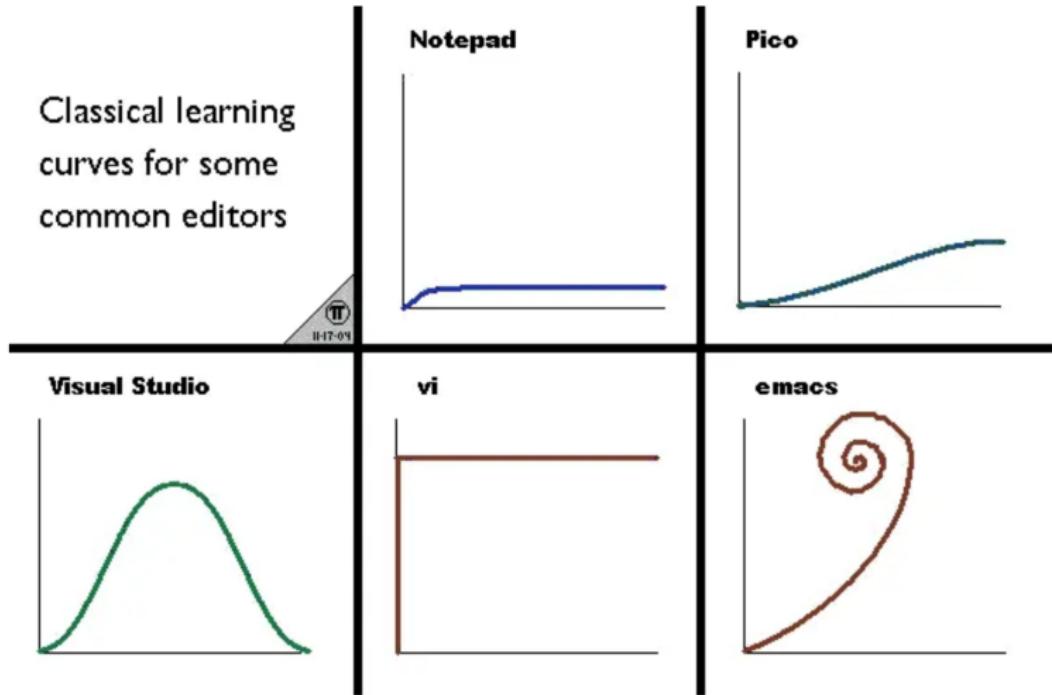
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Editor holy war

Classical learning
curves for some
common editors



¹Image from <https://prajwollamichhane11.medium.com/vim-vs-emacs-the-editor-war-b63ecb12ea92>

VIM

usable in just about
any environment.

does one thing, well.



EMACS

flexible, customizable, and
packed with every feature
known to man.



2

²Image from <https://prajwollamichhane11.medium.com/vim-vs-emacs-the-editor-war-b63ecb12ea92>

Basic Vim Commands

- ▶ Three modes: normal, insert, and visual
- ▶ Navigation: h, j, k, l, w, b, e, 0, \$, gg, G, f, F, t, T
- ▶ Editing: i, a, o, I, A, O, r, d, D, y, Y, p, P, u, x
- ▶ Saving and quitting: :w, :wq, :q, :q!, :w!, :wq!

- ▶ Text objects in VimTeX:
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Some fun images generated by Midjourney
for this talk.

Enjoy !

Illustrate the idea If you sharpen the saw you would...



Illustrate the idea If you sharpen the saw you would...



Illustrate the idea If you sharpen the saw you can cut...



Two guys are lumbering one with advanced tool doing...



Illustrate the idea of Time taken for sharpening...



Show sharp tools are superior than dull tools...



Illustrate An artisan must first sharpen his tools if...

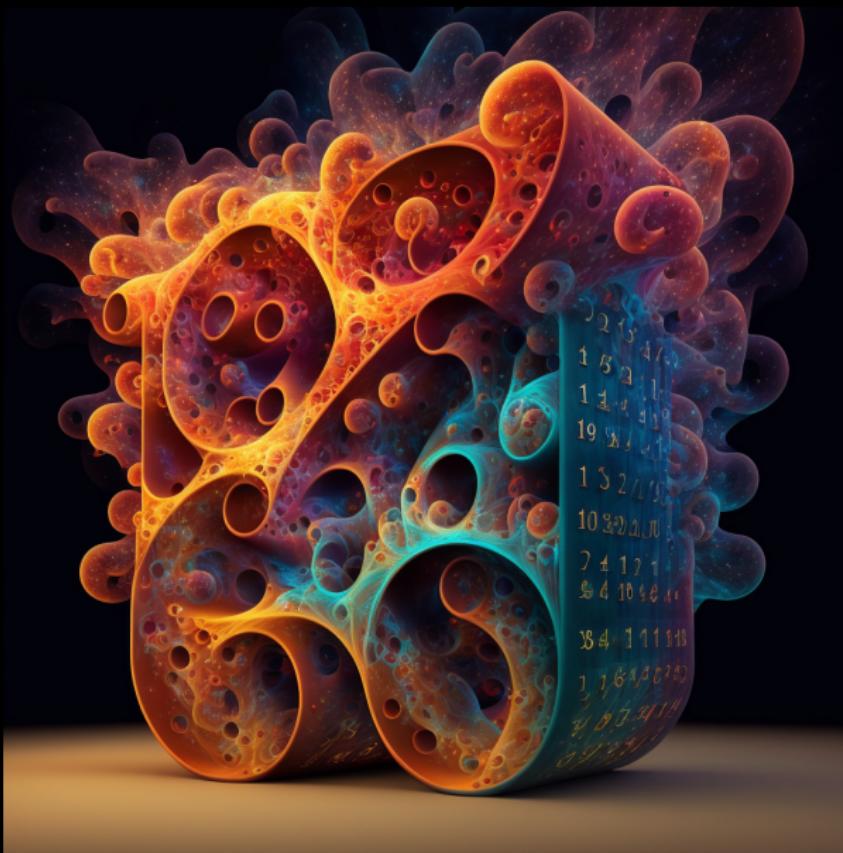


Chaotic stochastic heat flow on a torus...

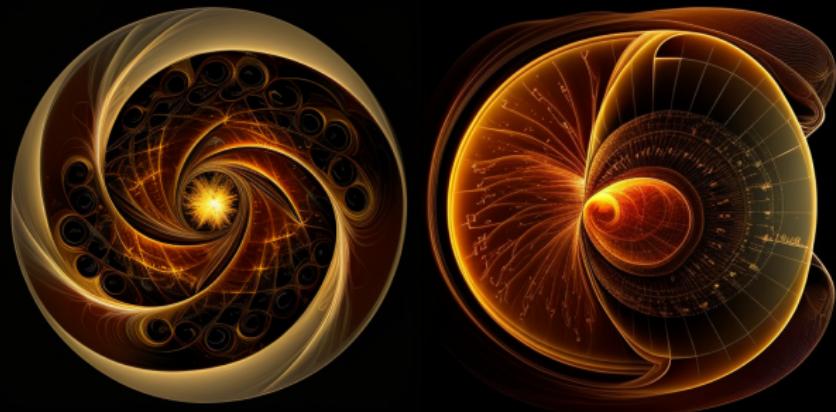




Stochastic heat equation...



Intermittency parabolic Anderson model Brownian motion...



A gitar placed in the sand storm in a desert show.png



Show rain drops on a small pond in a foggy raining day...



Lightning clouds dramatic light zigzag highly detailed...



Mushrooms in clusters in a forest with sun shades...



Was it nuclear explosion or cosmic forces beyond comprehension...



Standing on the planet Mars looking at home the earth...



A homesick guy looking back to earth from Mars...



A person in front of the whole universe galaxies...



Cosmic forces beyond comprehension...



Most famous mathematicians and physicist in the history...



Acknowledgement

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