3 things I learned while writing my own text editor

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... it all started with a crash.

The only possible solution: write my own text editor!!!

… it all started with a crash.

apeiron: a concept from the Greeks that relates to infinity.

see: the infinite scope of too many of my software projects.

… it all started with a crash.

see: the amount of knowledge needed to build your own text editor.

see: the amount of interesting rabbit holes you can fall in :)

let's go!

préambules

First stop: finding the right tutorial.

https://viewsourcecode.org/snaptoken/kilo/

préambules

Accomodate your needs: apeiron is written in Python!

First thing I learned

... on the history of the Control key.

How the Control key worked

The control key on teletypewriters: "The way it worked was clever:

if the operator held down the Ctrl key while typing a character, the Teletype machine in effect subtracted 64 from the value of that letter."
https://www.visualthesaurus.com/cm/wc/
ctrlshiftreturn-keys-to-your-computer/

... wait, what are teletypewriters?

- ▶ computers connected to a network - without a screen ?
- ▶ communications !
- ▶ electromechanical (with magnets)

... wait, what are teletypewriters?

Here is how to use a 1930 teletype as a Linux terminal:
https://www.youtube.com/watch?v=2XLZ4Z8LpEE

… wait, what are teletypewriters?

- predates ascii coding….
- … so which coding does it uses?

which brings us to telegraphy...

It uses the Baudot code! Invented by Émile Baudot in 1874.

The baud unit comes from his name.

...and now to Gauss!

The Baudot code is said to be based on the works of Gauss and Weber, for telegraphy.

- ▶ 1833, electromagnetic telegraph
  `https://www.uni-goettingen.de/en/62596.html`
- ▶ More about telegraphs : `https:`
  `//archive.org/stream/telegraphmanualc00shafrich`
  (page 137)

Back to the future: The Internet for teletypes ??

Teletype-compatible time-sharing systems:
https://tools.ietf.org/html/rfc206

Thank you, control characters

Ring a bell if you agree!

How? It depends on your OS :

https://en.wikipedia.org/wiki/Bell_character#Usage

Thank you!!