3 things I learned while writing my own text editor

2 of 3

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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.

last talk: a brief history of the control key that brought us back to 19th century mathematicians followed!!

building things in the terminal

so we are building the user interface in the terminal...

building things in the terminal

which means...

building things in the terminal

... we need to deactivate the terminal canonical mode...

building things in the terminal

...apparently?

... wait!

what IS the canonical mode

default mode of your terminal.

the characters are pre-processed before being served!

line-based system: a line ends when you press the Enter key.

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https://unix.stackexchange.com/questions/21752/
what-s-the-difference-between-a-raw-and-a-cooked-device-dr:
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what IS the raw mode?

the characters are sent straight the program!

"The usual reason to use noncanonical mode is when the program accepts single-character commands or provides its own editing facilities. "

https://www.gnu.org/software/libc/manual/html_node/
Canonical-or-Not.html

How to do this, in C

with termios !

https://manpages.debian.org/buster/manpages-dev/
termios.3.en.html

How to do this, in Python

also with termios!

https://docs.python.org/fr/3/library/termios.html

it is a UNIX system!

"Most users make mistakes while typing, so a backspace key is often useful. This could of course be implemented by the applications themselves, but in accordance with the UNIX design philosophy, applications should be kept as simple as possible. So as a convenience, the operating system provides an editing buffer and some rudimentary editing commands (backspace, erase word, clear line, reprint), which are enabled by default inside the line discipline."

https://www.linusakesson.net/programming/tty/

demo... ?

and our own ....!

https://vinayak.io/2020/05/04/
the-hitchhikers-guide-to-clis-in-python-part-1-anatomy-of-a

demo time !!

open question

How would you do a bottom-up instead of top-down terminal??