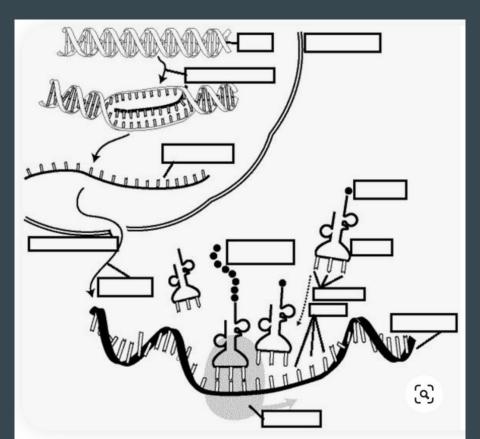
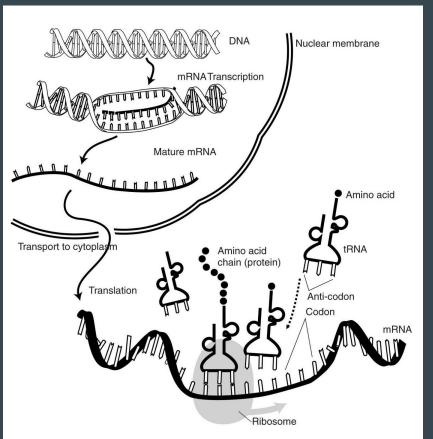
First, a word about who knows what...



DNA transcription and translation



A History of Unix/Linux

•••

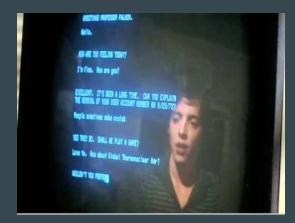
December 2, 2019 #dataSanJose19 Diggs, S.

Why?

Lots of things in a Unix (Linux) system only make sense in a historical context.

Bonus Movie Quote: "Shall we play a game?"

- What movie / year?
- Who said this?



From Nepohualtzintzin to the transistor











The Mayan Abacus

Pre-colonial Americas

Loom Punch Card

The inspiration for the IBM computer punch card, ca. 1850-1900

ENIAC (ca. 1940's)

Electronic Numerical Integrator and Computer, 20,000 vacuum tubes.

Transistors

Semiconductor successor to the vacuum tube, ca. 1950's

From the mainframe to the Android (and IOS)



IBM (ca. 1954)

First mass-produced transistor-based computer (mainframe)



PDP-11 (ca. 1970)

Digital Equipment
Corporaton's personal data
computer, ~ \$10,000 USD



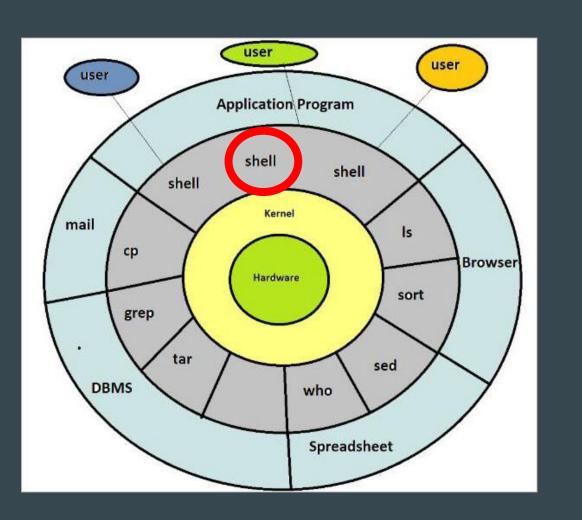
UNIX (ca. 1970)

D. Ritchie authored the C
Programming Language and
then he and K. Thompson
wrote a multitasking
operating system



MINIX/Linux

Tannenbaum's free version of UNIX inspired Linus Torvalds to write Linux (ca. 1987 and 1993 respectively) You're Learning the **Shell**, not (necessarily) Linux



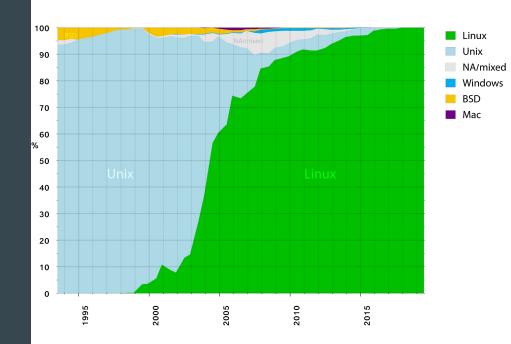
The screen is in your head (or it used to be)



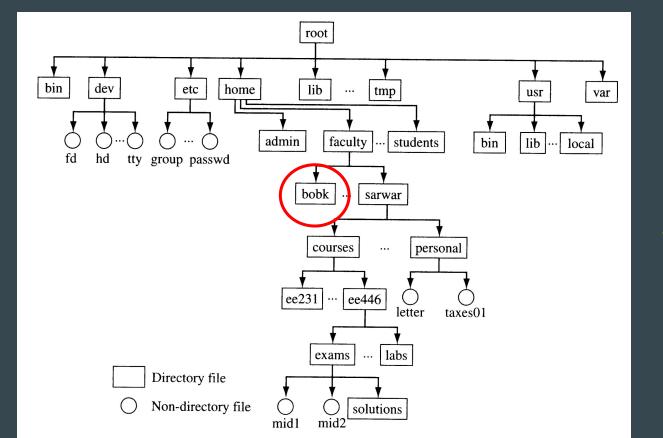
Why CLI?



Supercomputer O/S (and cloud instances)

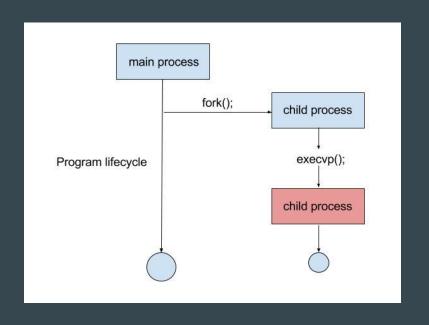


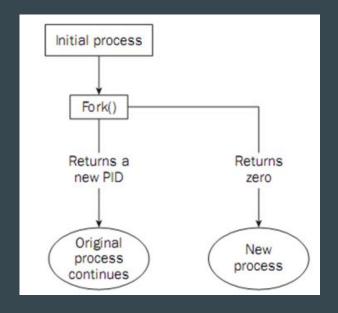
Remember, pwd is your friend



... one more thing ...

If you know this already...





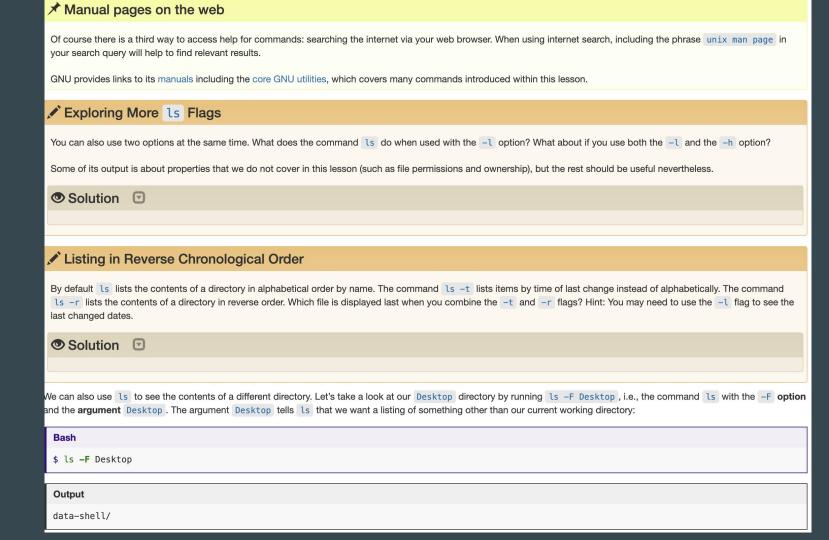
DEFINICIÓN DE <u>SPOILER</u>

Spoiler es un término inglés que, en nuestra lengua, suele emplearse para nombrar al texto que anticipa la trama de una película, un libro u otra obra. De este modo, al encontrarse con un spoiler, una persona pierde la oportunidad de sorprenderse al ver o leer la obra en cuestión, algo que sí podría suceder si no contase con dicha información. También puede ser una persona.



Schedule

	Setup	Download files required for the lesson
00:00	1. Introducing the Shell	What is a command shell and why would I use one?
00:05	2. Navigating Files and Directories	How can I move around on my computer? How can I see what files and directories I have? How can I specify the location of a file or directory on my computer?
00:45	3. Working With Files and Directories	How can I create, copy, and delete files and directories? How can I edit files?
01:35	4. Pipes and Filters	How can I combine existing commands to do new things?
02:10	5. Loops	How can I perform the same actions on many different files?
03:00	6. Shell Scripts	How can I save and re-use commands?
03:45	7. Finding Things	How can I find files? How can I find things in files?
04:30	Finish	



System Setup

https://swcarpentry.github.io/shell-novice/data/data-shell.zip

```
$ curl https://swcarpentry.github.io/shell-novice/data/data-shell.zip
> data-shell.zip
```

To follow along: https://swcarpentry.github.io/shell-novice