

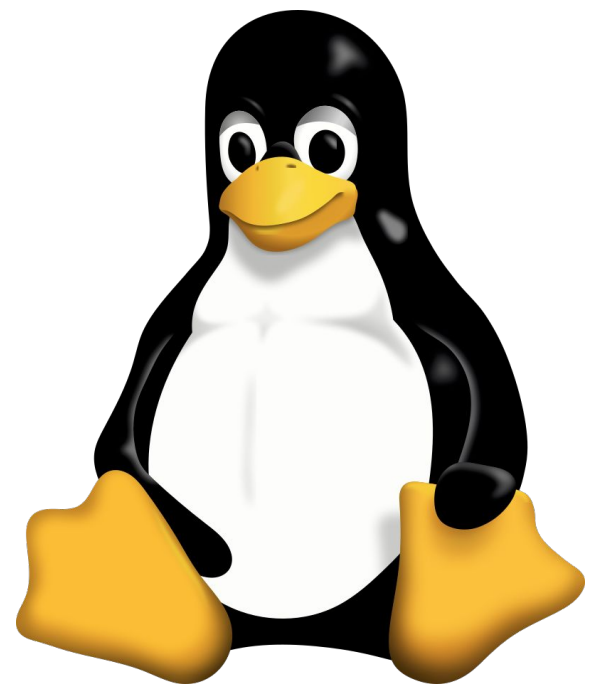
ssh

Adapted from materials from Dr. Carrier

[Paul Kapischka - Unsplash](#)

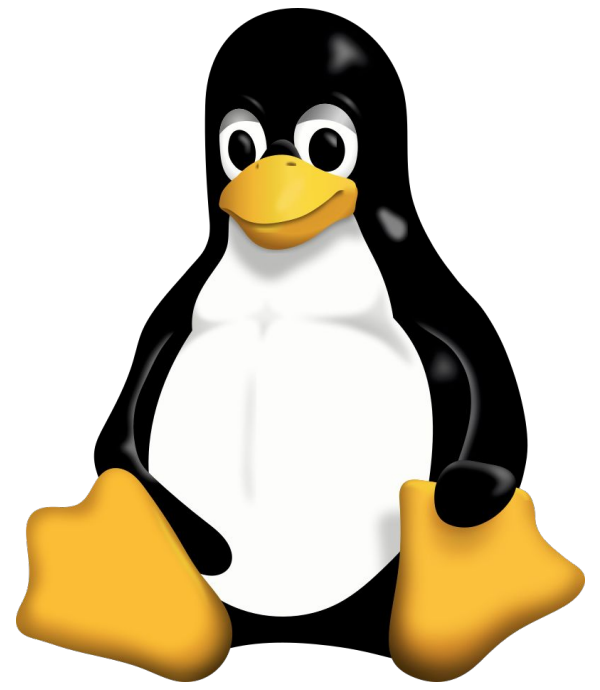


What is Linux???



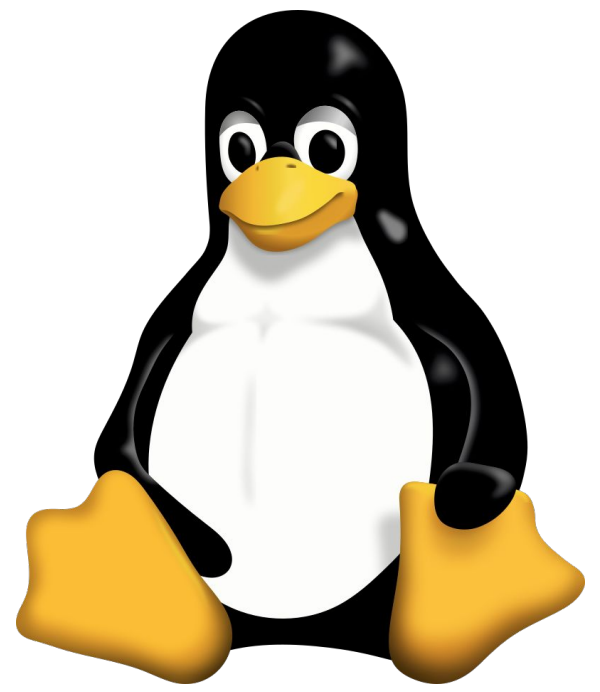
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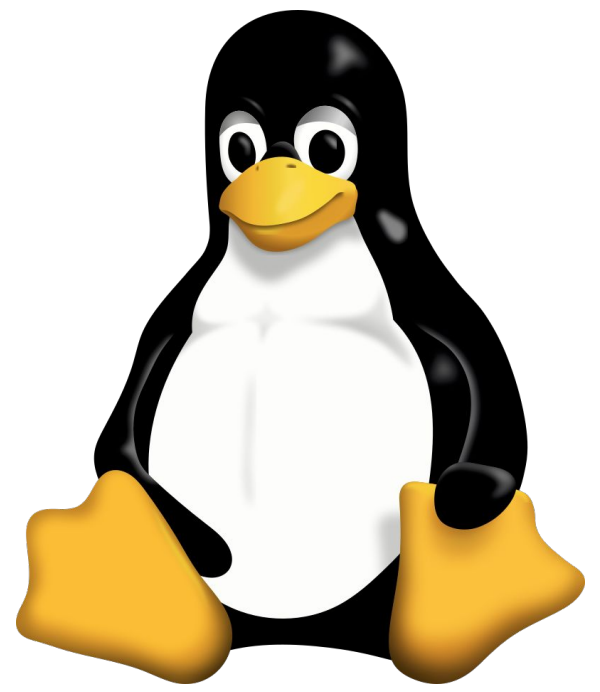
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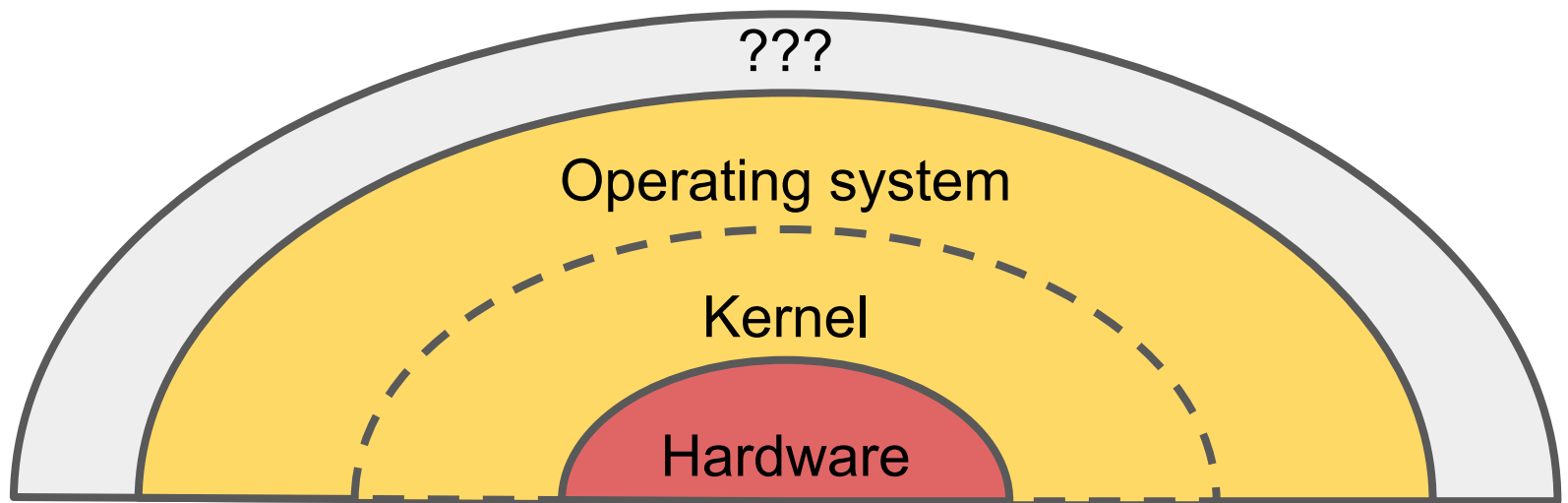
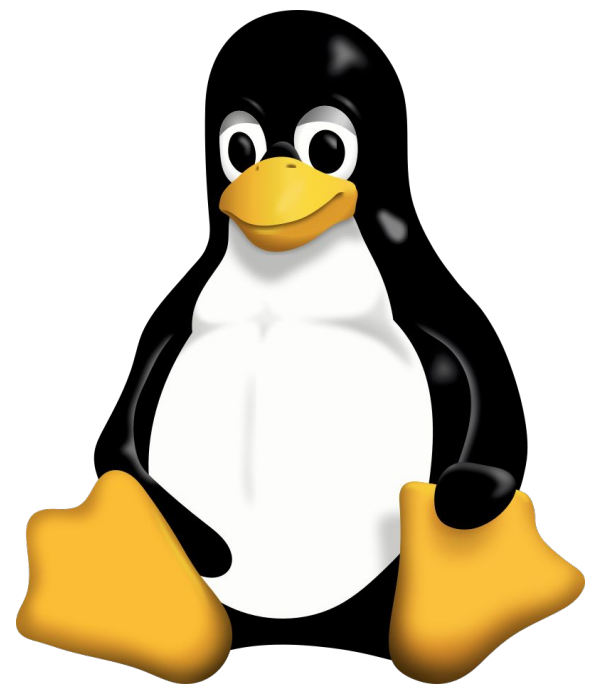
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 - ***Kernel*** - core of the operating system



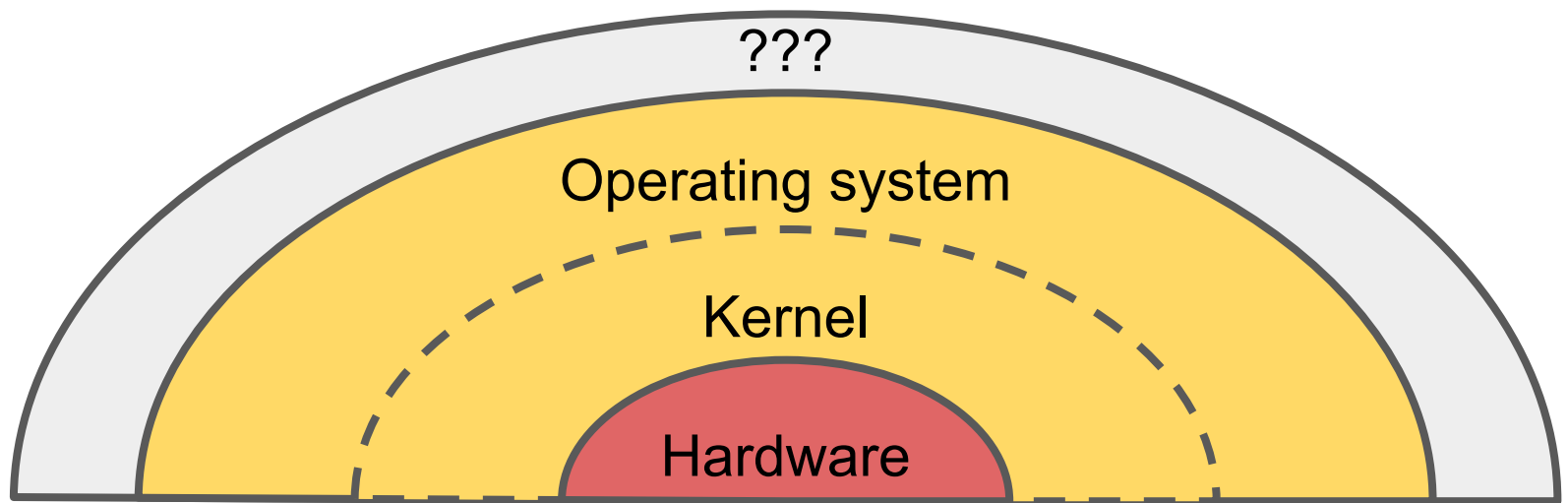
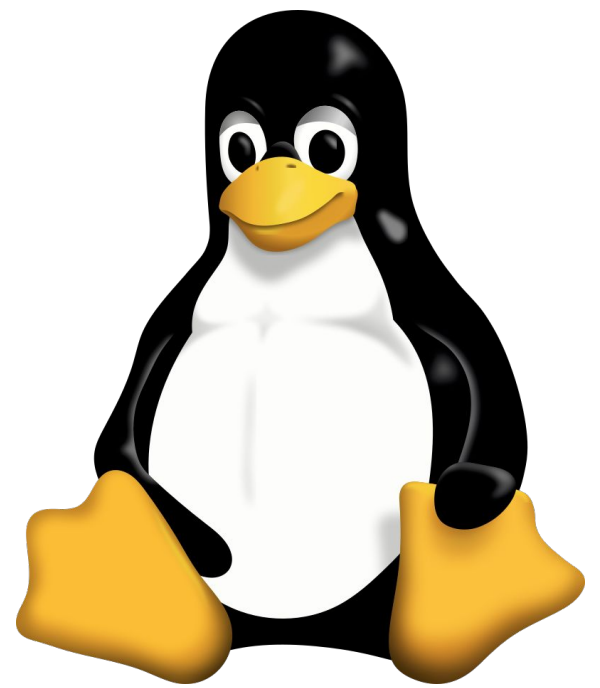
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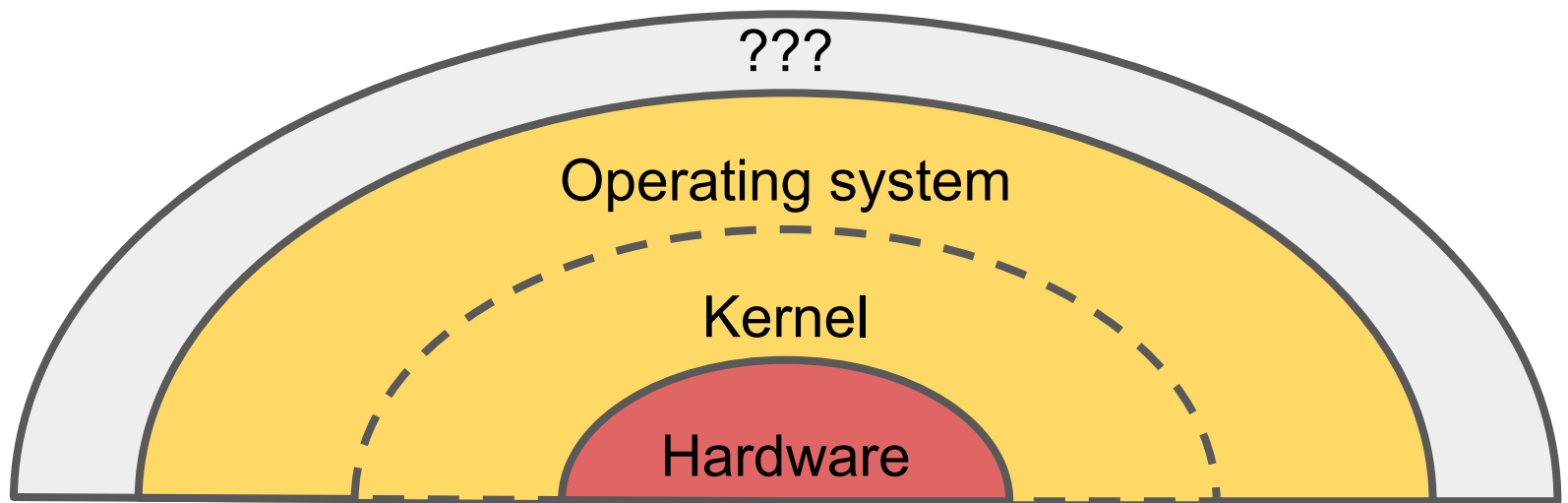
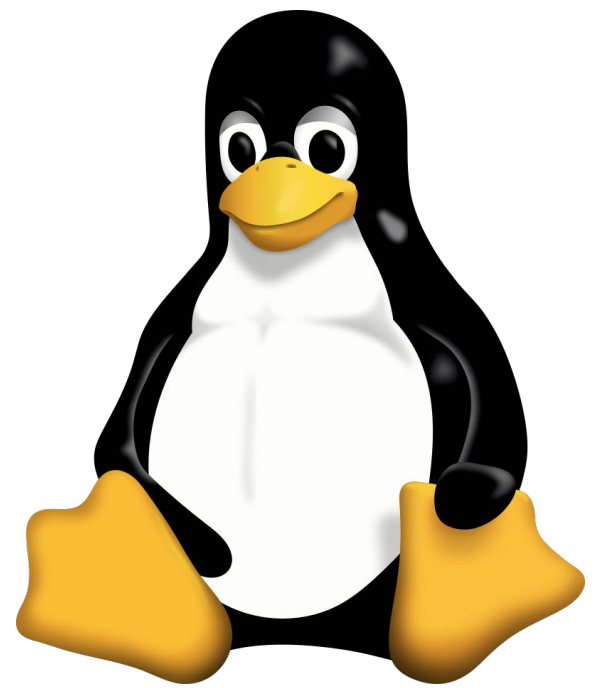
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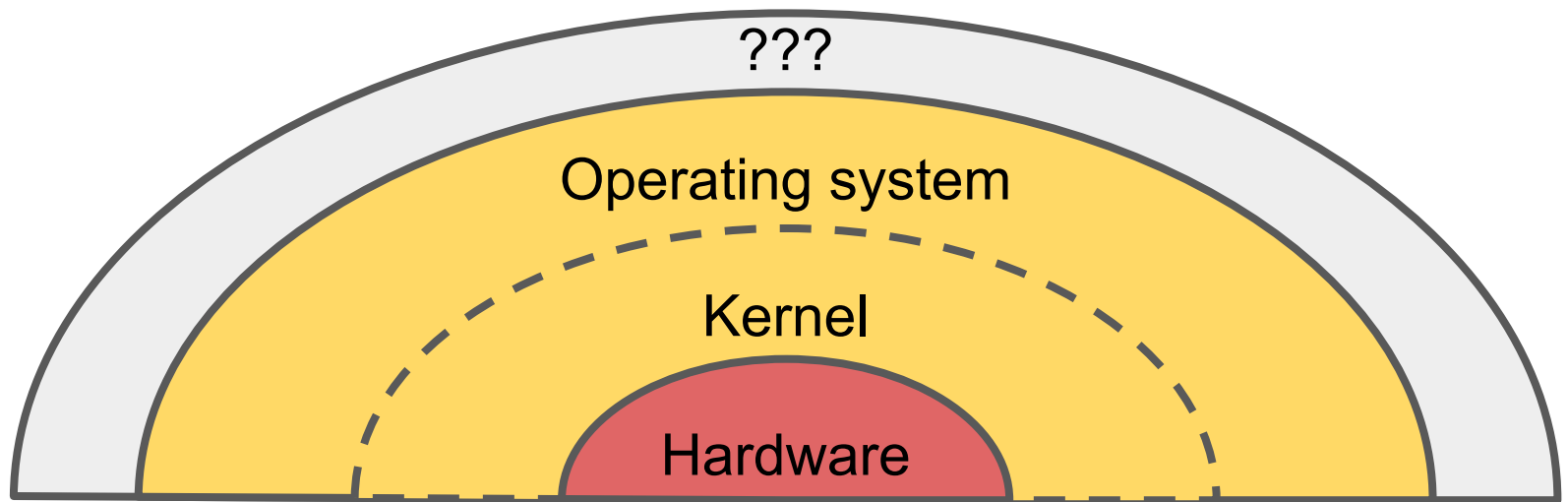
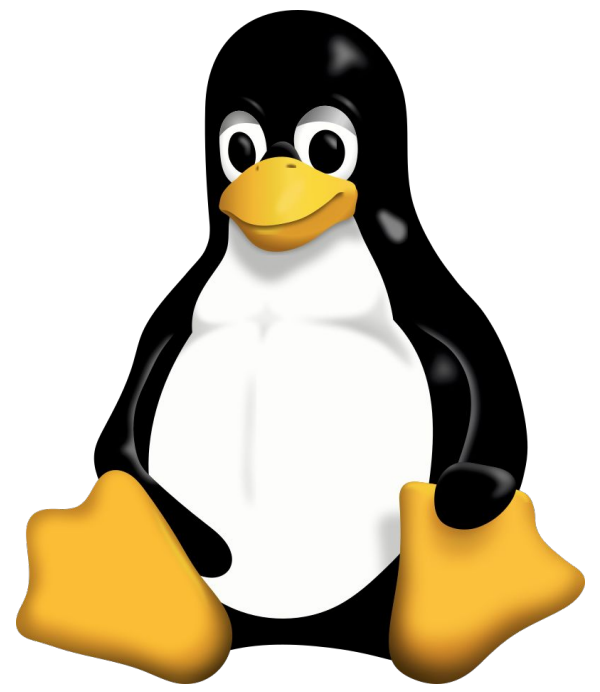
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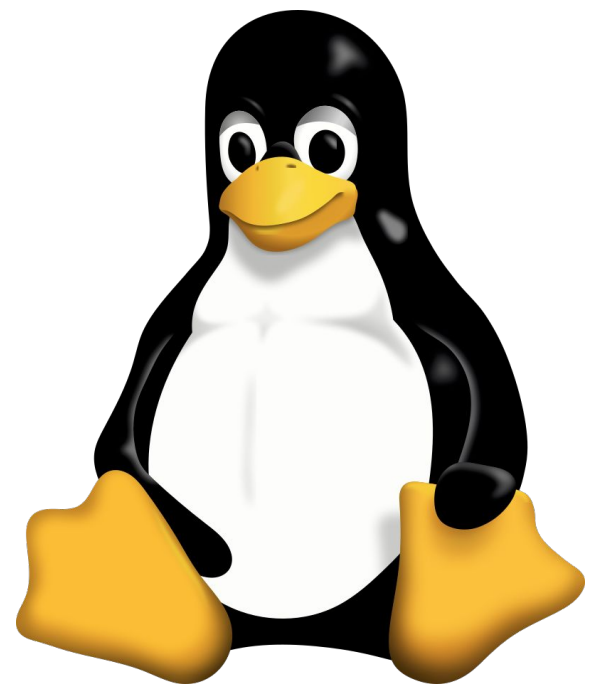
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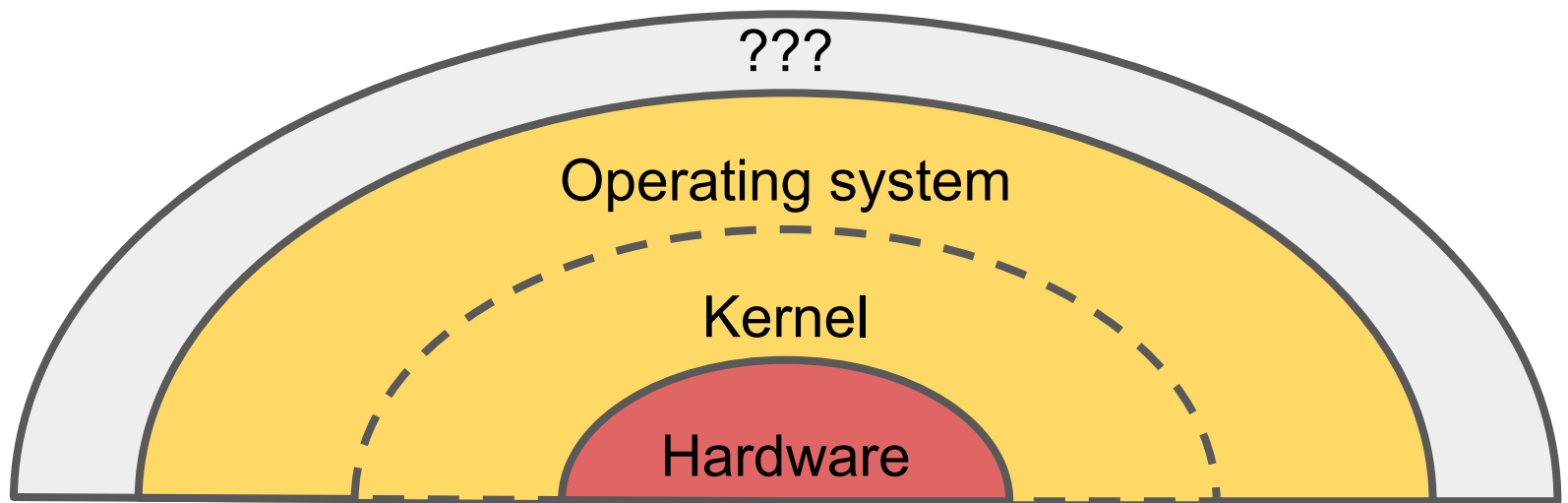


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- Confusingly, these OS's are often referred to as "Linux"

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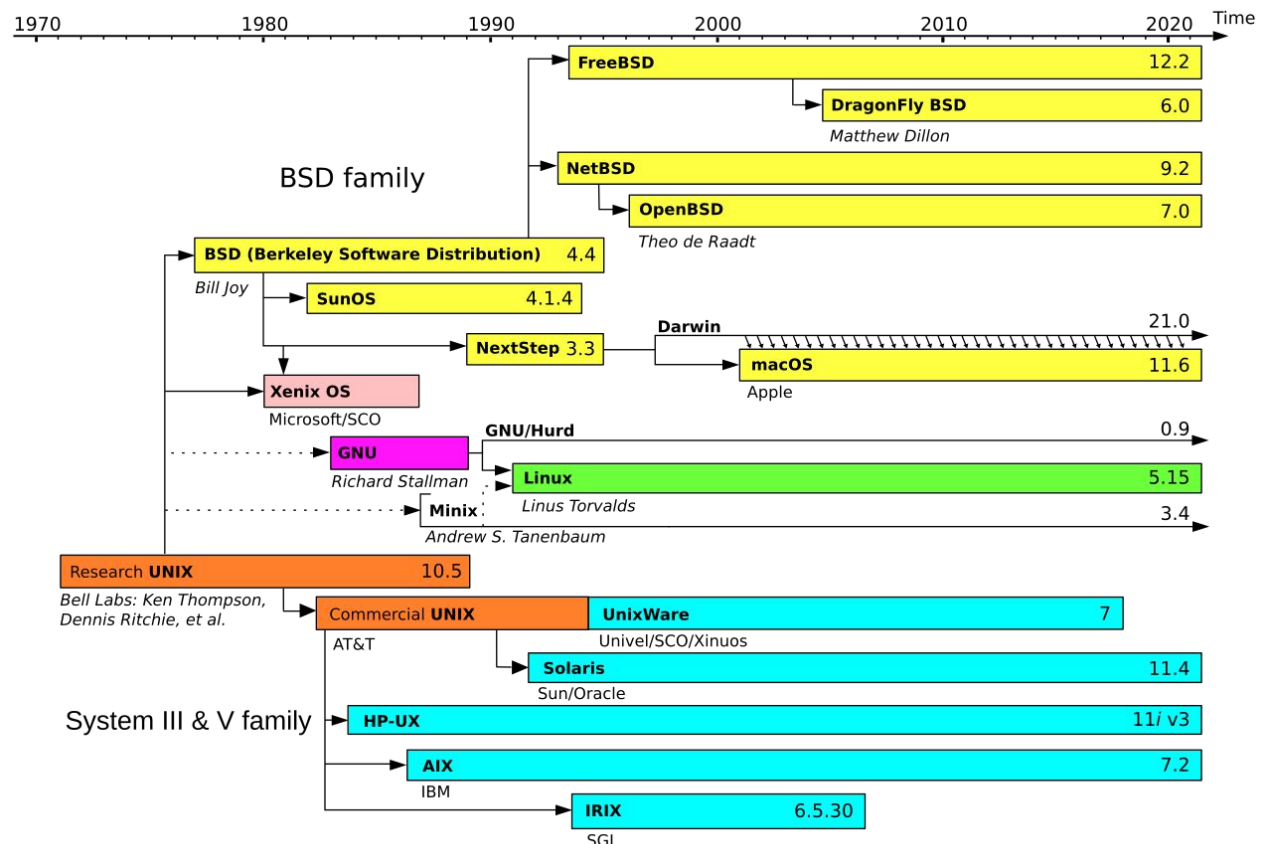
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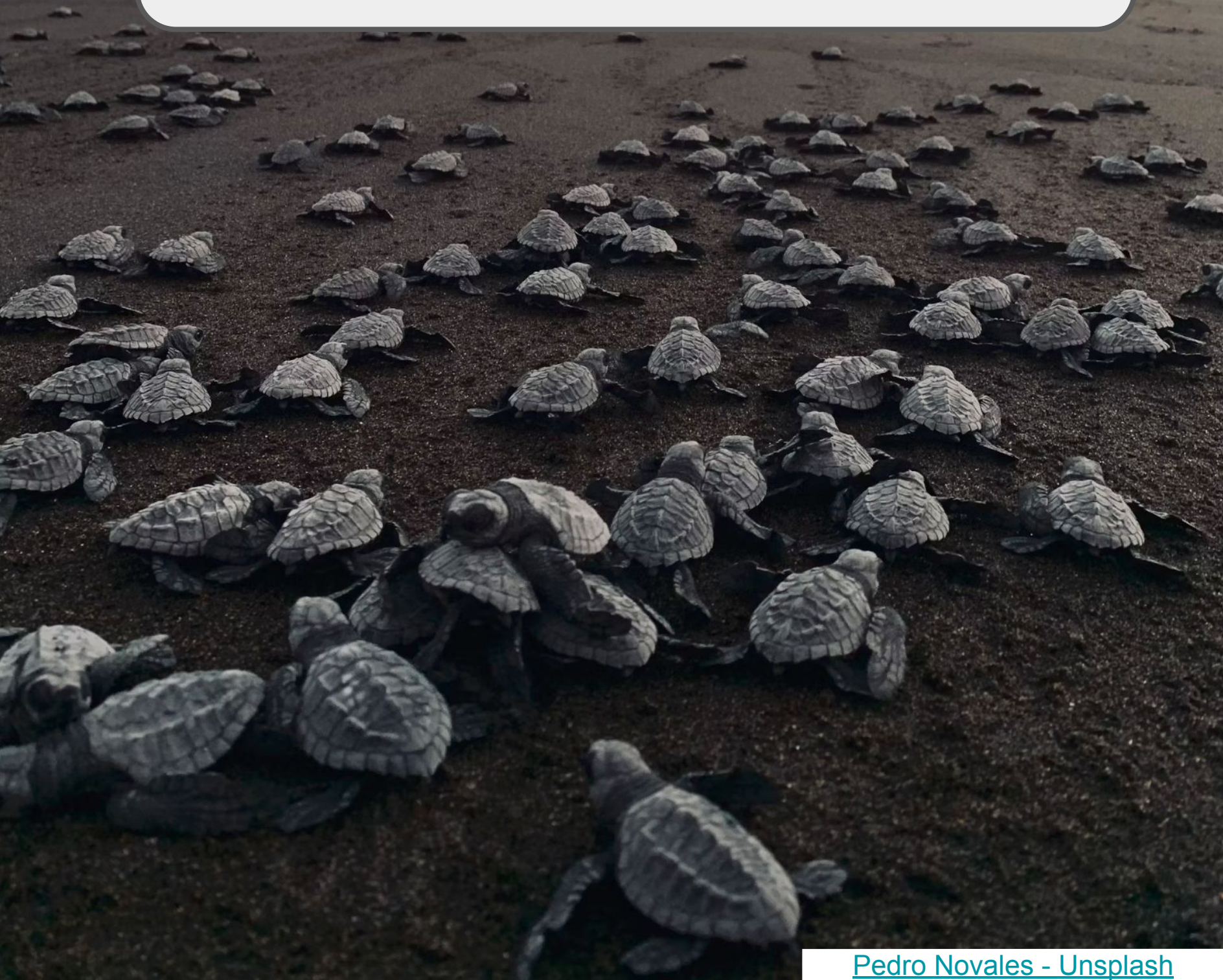
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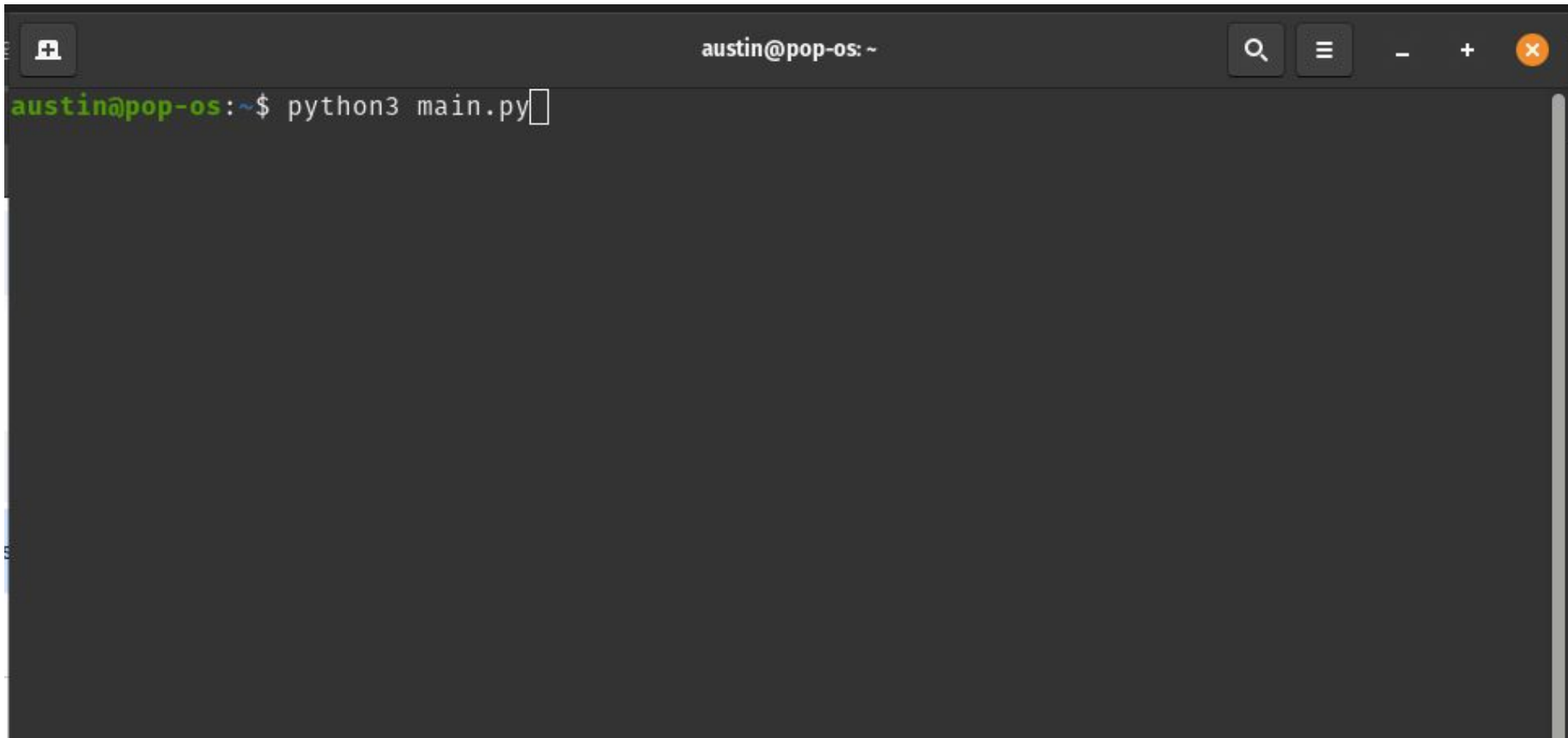
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 - However, we have WSL!
 - **W**indows **S**ubsystem for **L**inux
 - If you are on Windows, you ***must*** install WSL
 - <https://learn.microsoft.com/en-us/windows/wsl/install>



Enough history!
Why the turtles?

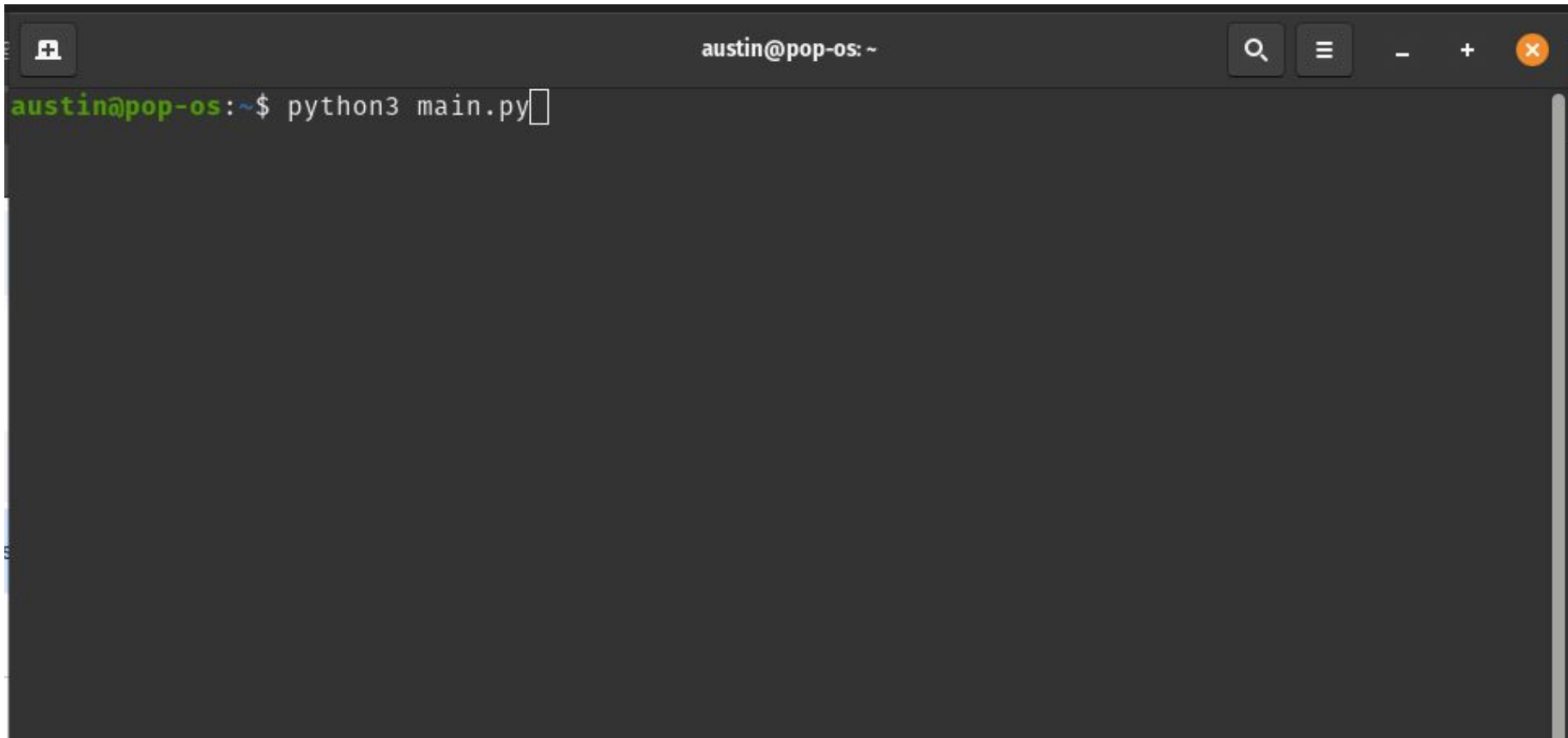


What is this called?

A screenshot of a terminal window with a dark gray background. The window's title bar at the top shows 'austin@pop-os: ~' in the center, a search icon on the left, and standard window control buttons (minimize, maximize, close) on the right. The main area of the terminal displays the prompt 'austin@pop-os:~\$' in green, followed by the command 'python3 main.py' in white, with a white cursor at the end of the line.

```
austin@pop-os:~$ python3 main.py
```


What is this called?



A terminal

But what's going on in here?

A terminal window with a dark background. The title bar at the top reads "austin@pop-os: ~". On the left of the title bar is a small icon of a person. On the right are standard window controls: a magnifying glass (search), a hamburger menu, a minus sign (zoom out), a plus sign (zoom in), and a red close button. The terminal content shows the prompt "austin@pop-os:~\$" followed by the command "python3 main.py" and a cursor. A red arrow points from the top left towards the command line.

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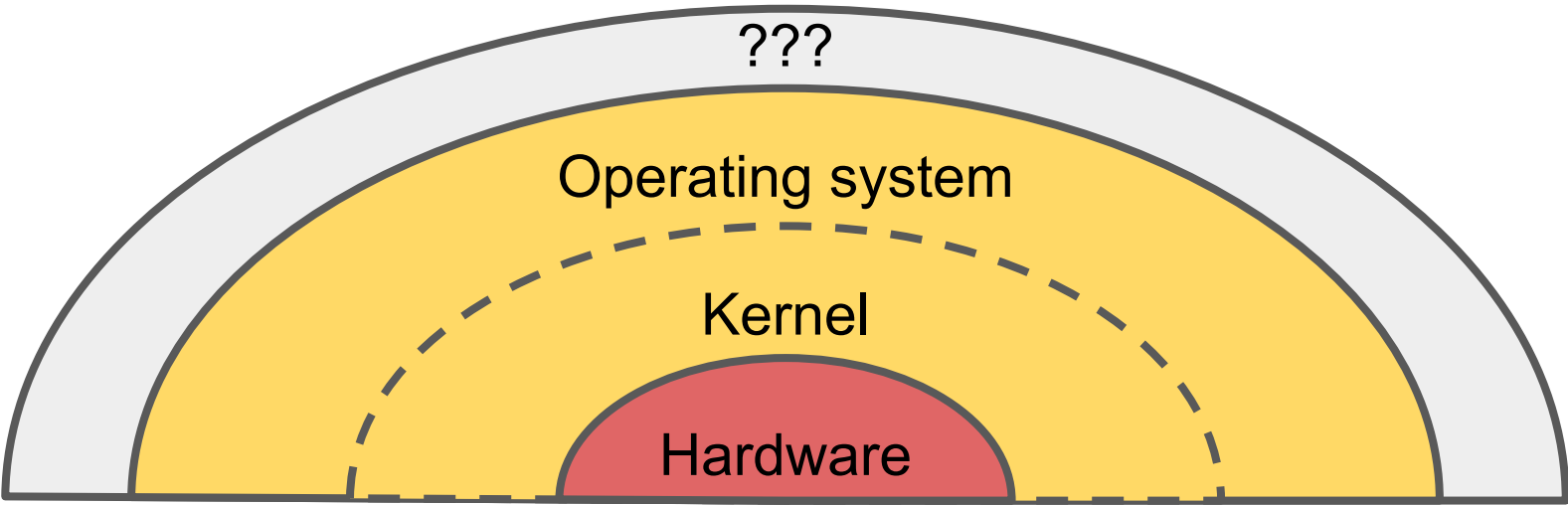
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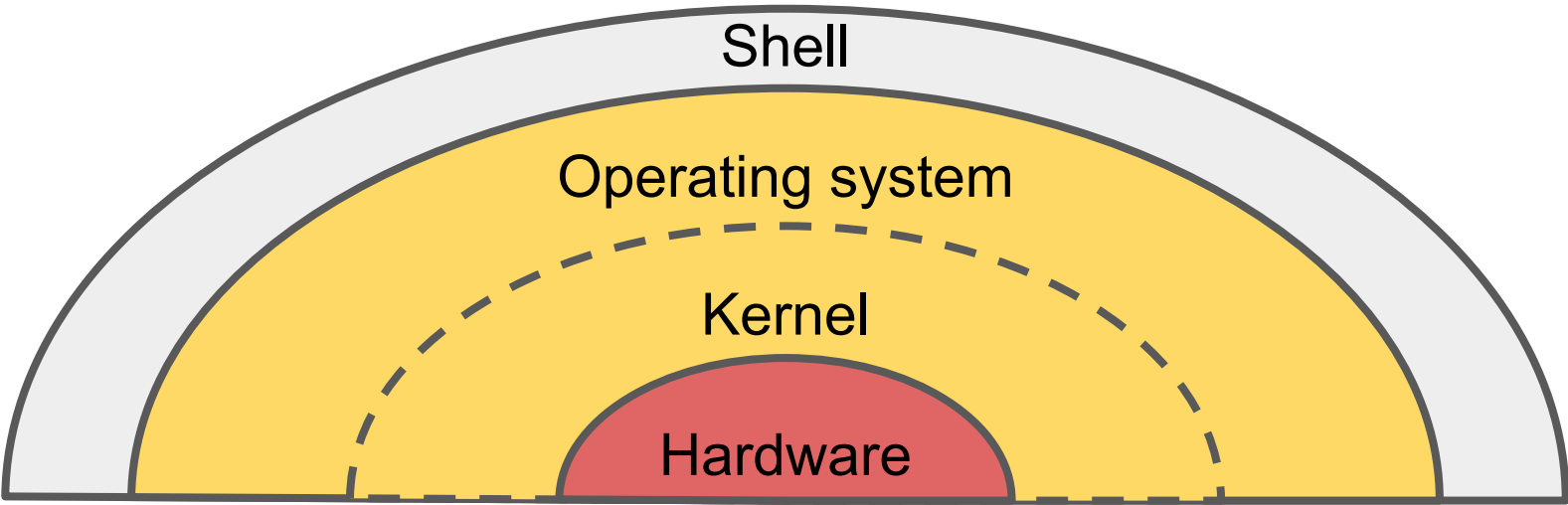
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We are running a ***shell***

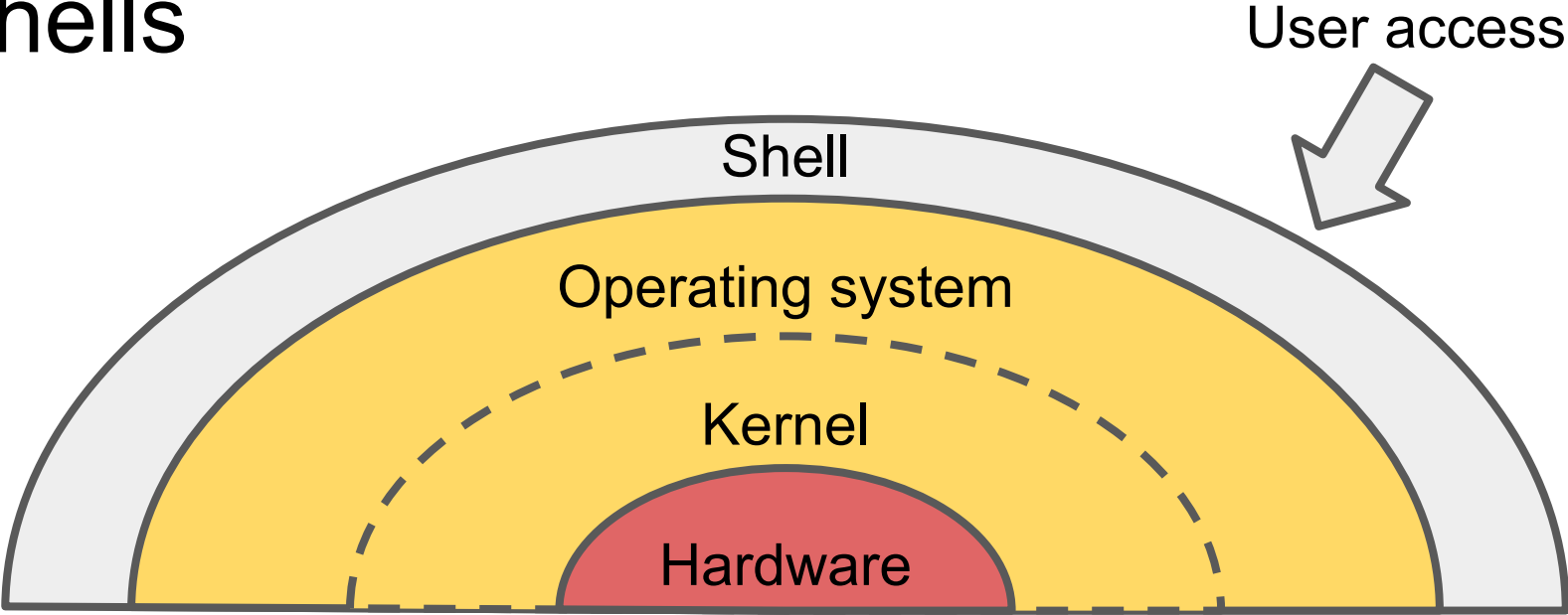
Shells



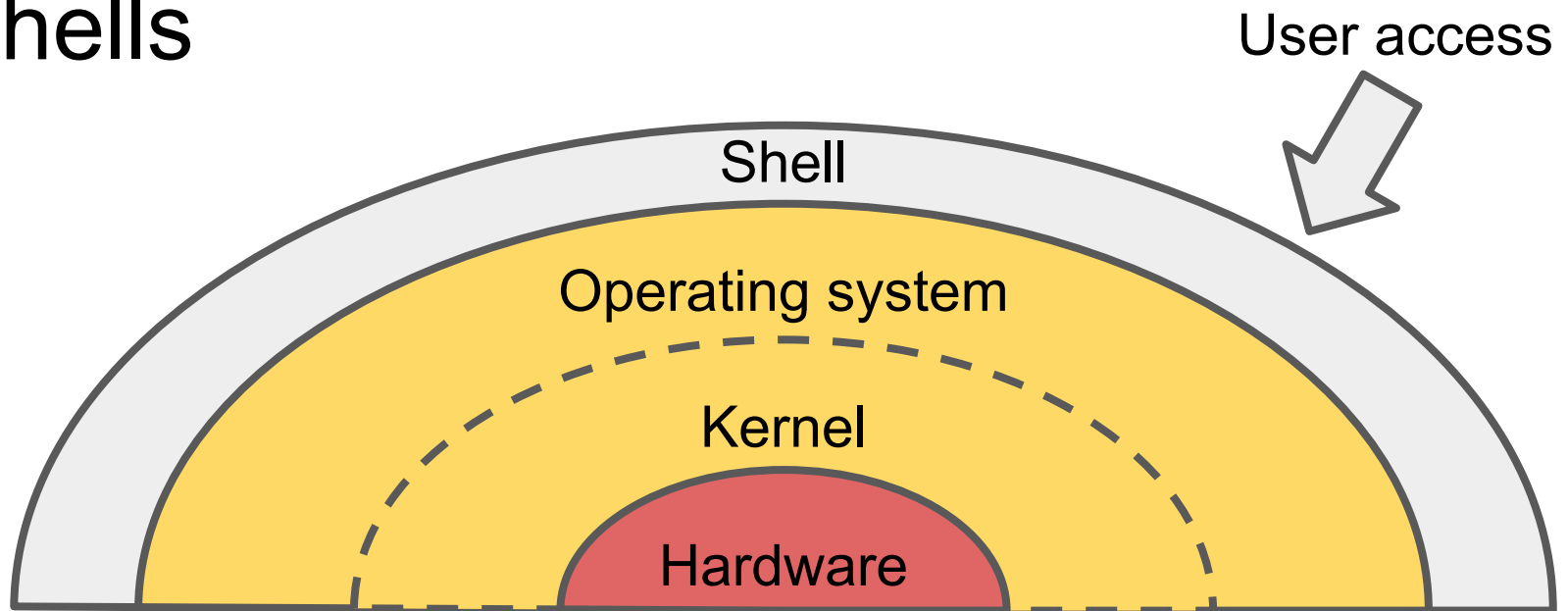
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- We can check what shell we're using with `echo $0`

```
austin@pop-os: ~  
austin@pop-os:~$ echo $0  
bash  
austin@pop-os:~$
```


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You can log onto different machines in the lab by changing this number!

Why would I use a shell or ssh?