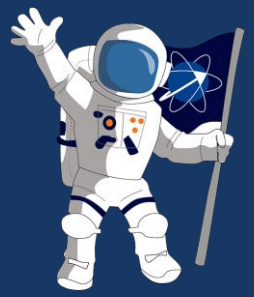
Stay connected



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HACK

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ORBIT LAB

AARHUS UNIVERSITY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

MEET THE TEAM

ORBIT LAB

AARHUS UNIVERSITY
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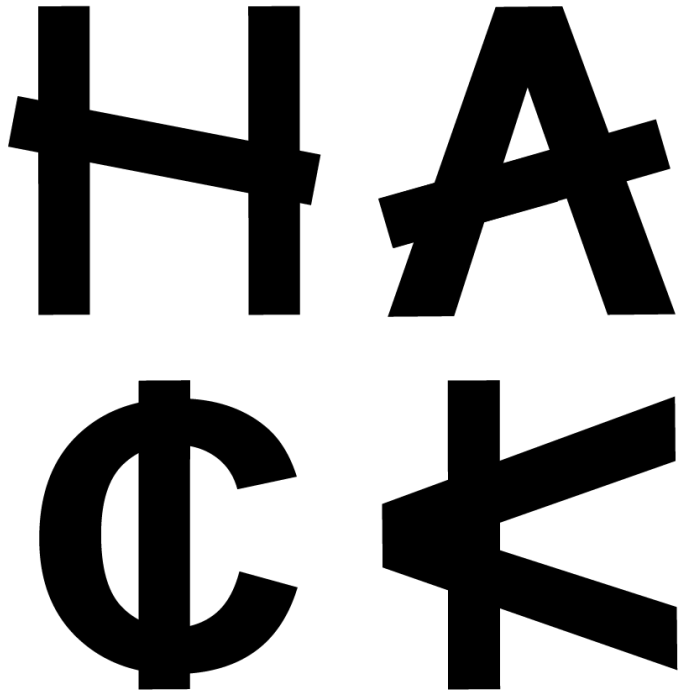

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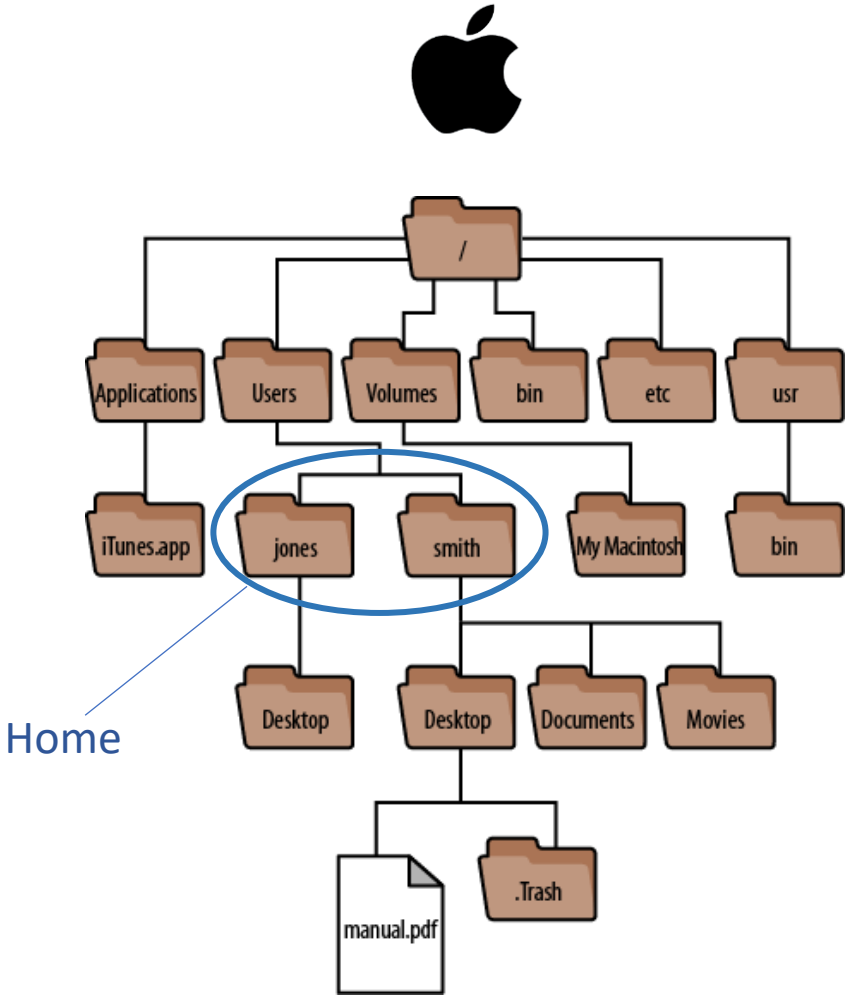
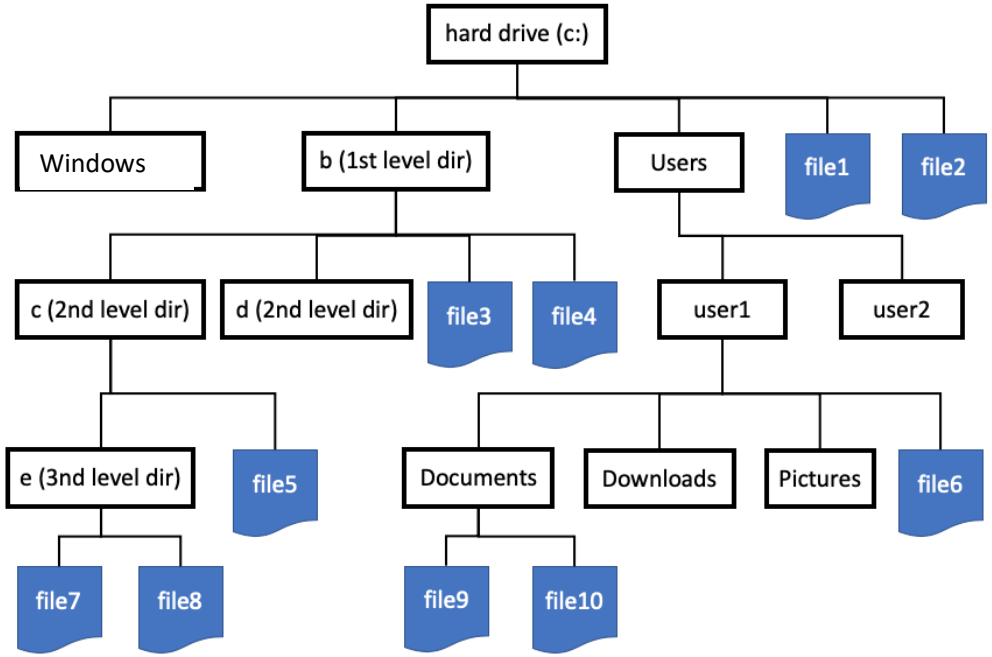
The Black Window

Master The Command Line

https://github.com/0RBIT-Lab/hack-black-window

Files Grows on Trees





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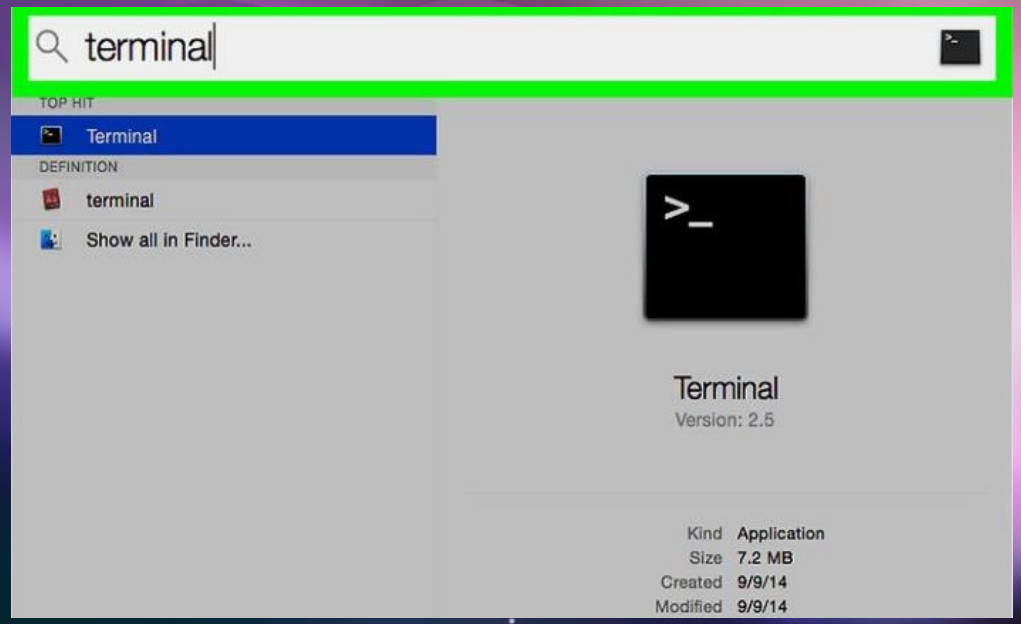
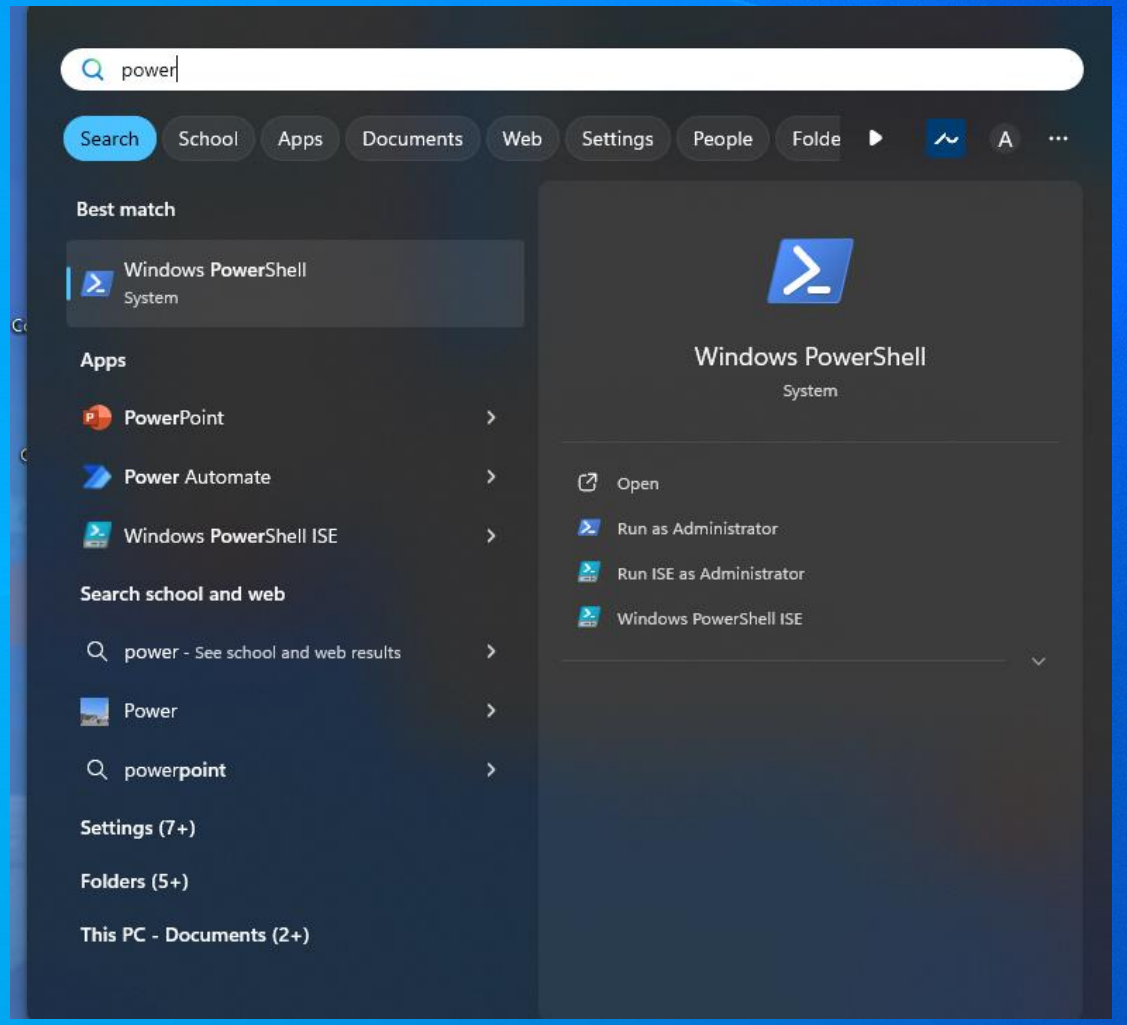
Task 1:

Open The Terminal





PATH's
(To Happiness)

Default Relative Path

```
[some]/[folder]/[structure]/[file].[ext]
```

Absolute Path

```
/[some]/[folder]/[structure]/[file].[ext]
```

Relative Path

```
./[folder]/[structure]/[file].[ext]
```

Relative To Home Path

```
~/[folder]/[structure]/[file].[ext]
```

Relative with ..

```
./[folder]/../[folder]/./[file]
```

```
[folder]/[file]
```

Default Relative Path

```
[some]\[folder]\[structure]\[file].[ext]
```

Absolute Path

```
C:\[some]\[folder]\[structure]\[file].[ext]
```

Relative Path

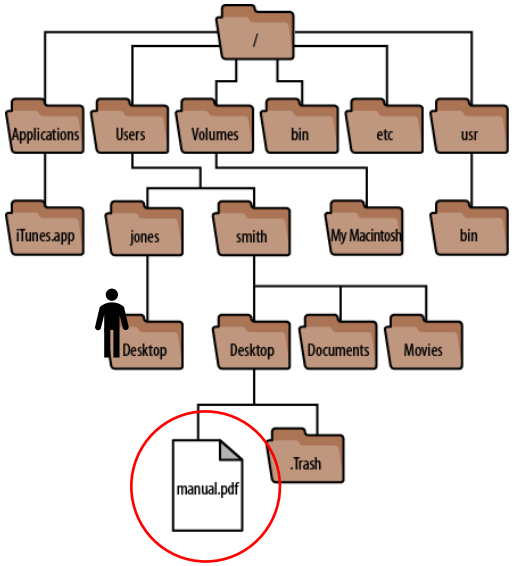
```
.\[folder]\[structure]\[file].[ext]
```

Relative with ..

```
.\[folder]\..\[folder]\.\[file]
```

```
[folder]\[file]
```

Paths

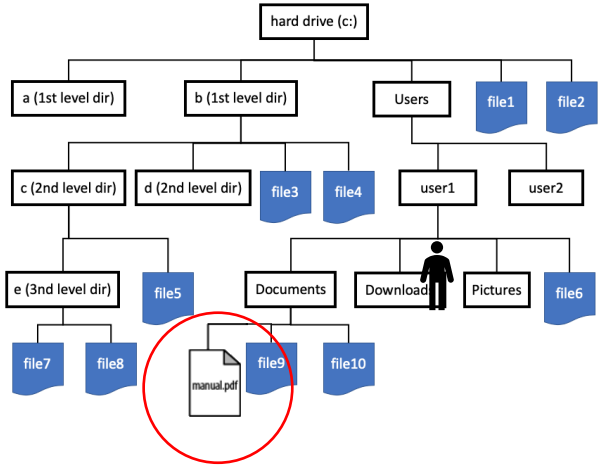


Absolute Path

/Users/smith/Desktop/manual.pdf

Relative Path

../../smith/Desktop/manual.pdf



Absolute Path

C:\Users\user1\Documents\manual.pdf

Relative Path

..\Documents\manual.pdf

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List File at current Location

ls

ls [path]

dir

dir [path]

Create Folder

mkdir [folder]

mkdir [folder]/[folder] Folder structure

mkdir [folder]

mkdir [folder]\[folder] Folder structure

Task 3:

Change current Location

`cd [path]`	Relative to current location

E.g.:

`cd ..`	Jump out of folder
`cd ./ [name of the folder]`	Relative to current location
`cd [folder]/[folder]`	Jump relative into subfolder

`D:/`	Change Harddisk

Copy File

cp [source path] [destination path]

copy [source path] [destination path]

Move File/Folder

mv [source path] [destination path]

move [source path] [destination path]

Remove File/Folder

```
rm [file]
```

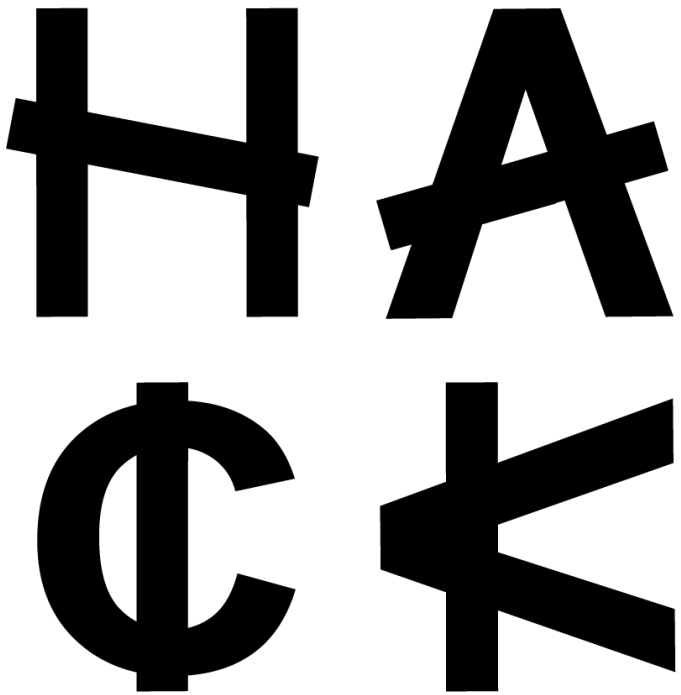
```
rm -r [folder]
```

```
del [folder/file]
```

Print out Content of File

```
cat [path]
```

```
type [path]
```



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Exercise:

Download and unzip the “file-maze” from:
https://github.com/0RBIT-Lab/hack-black-window

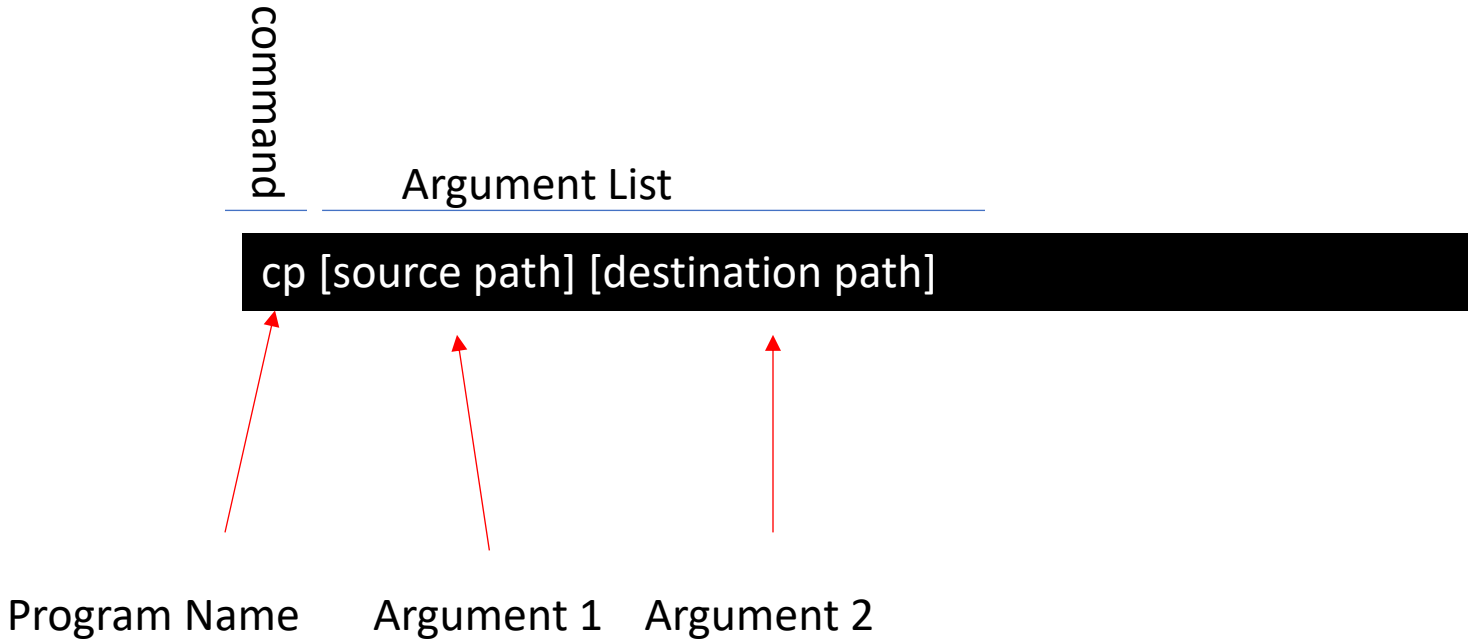
Use the learned commands to find the items in the maze and transfer them to your house.

0. Create a folder named “house”, this is your house and should not be moved. It can be placed anywhere you like.

1. Gold should be “moved” to your house.
2. Art should be “copied” to your house.
3. Any trash should be “deleted” to leave the maze clean

Printout content of found files to see what they are.

Commands in the terminal is just programs!



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Run Program

```
./[path to program]
```

If spaces in path use the “

```
“./[path to program]”
```

```
/System/Applications/TextEdit.app/Contents/MacOS/TextEdit
```

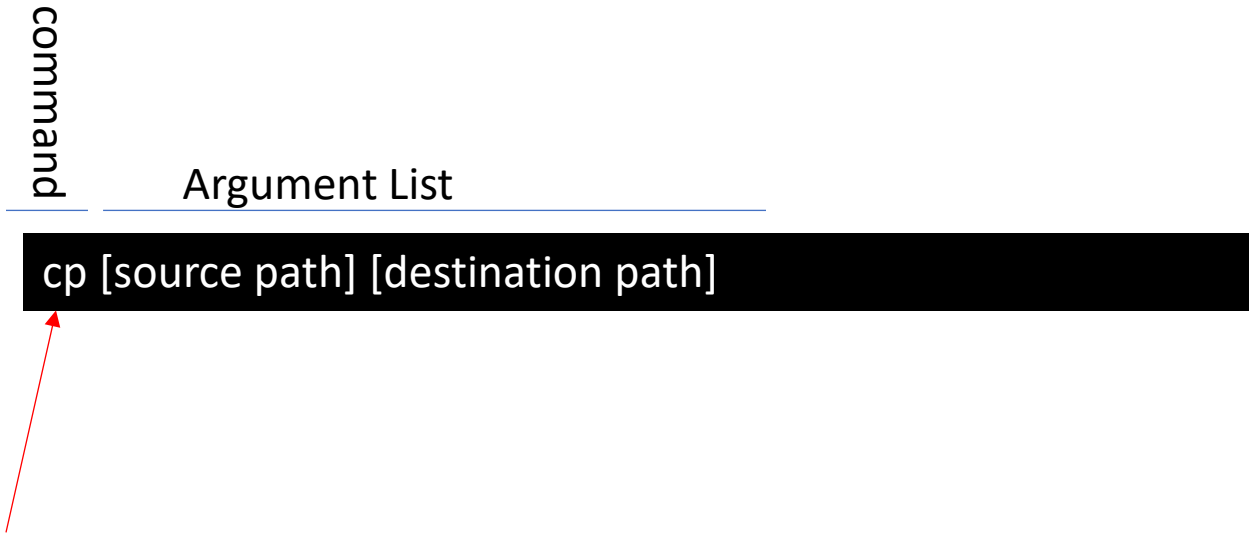
```
[path to program].exe
```

If spaces in path use the “

```
“[path to program].exe”
```

```
C:\Windows\System32\notepad.exe
```

The Path Environment Variable



How does it know where to find the CP program

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Path Variables In Terminal

List:

```
echo $PATH
```

Add for current terminal Only:

```
export PATH="/your/path/here:$PATH"
```

List:

```
echo %PATH%
```

Add for current terminal Only:

```
set PATH=%PATH%;C:\your\path\here\
```

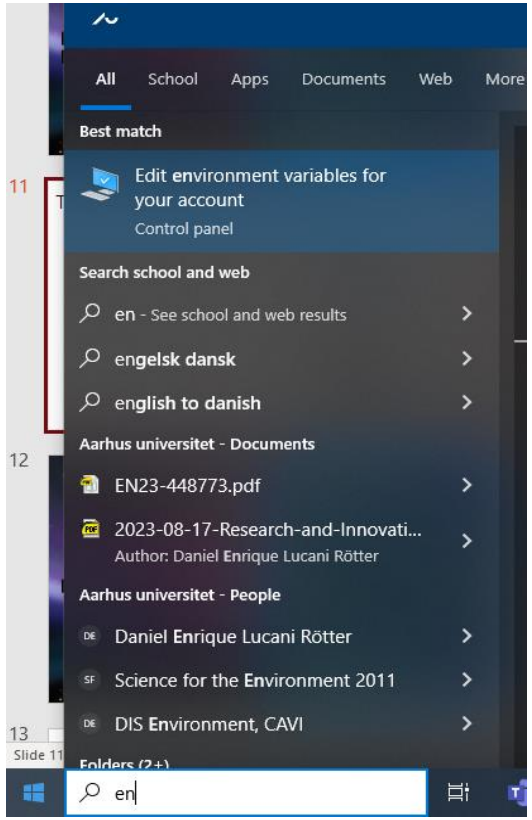
The PATH - Environment Variable – Permanent Set

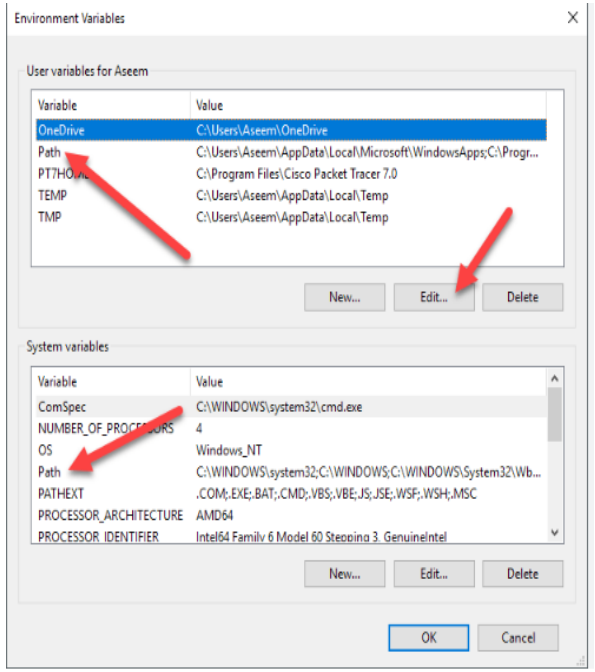
Create or append to the file:

```
~/.bash_profile
```

With the previously command:

```
export PATH="/your/path/here:$PATH"
```





”miljøvariabler” in danish

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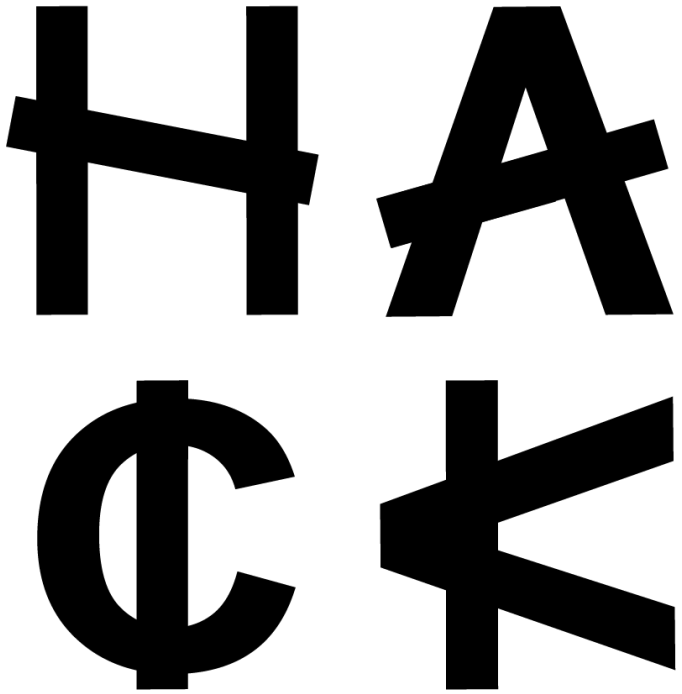

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Add a Program to Path:

Select a program that you would like to be able to open from a terminal easily. Like “chrome”

0. Find where it is located on the disk, (you can google if you have no idea where to look)

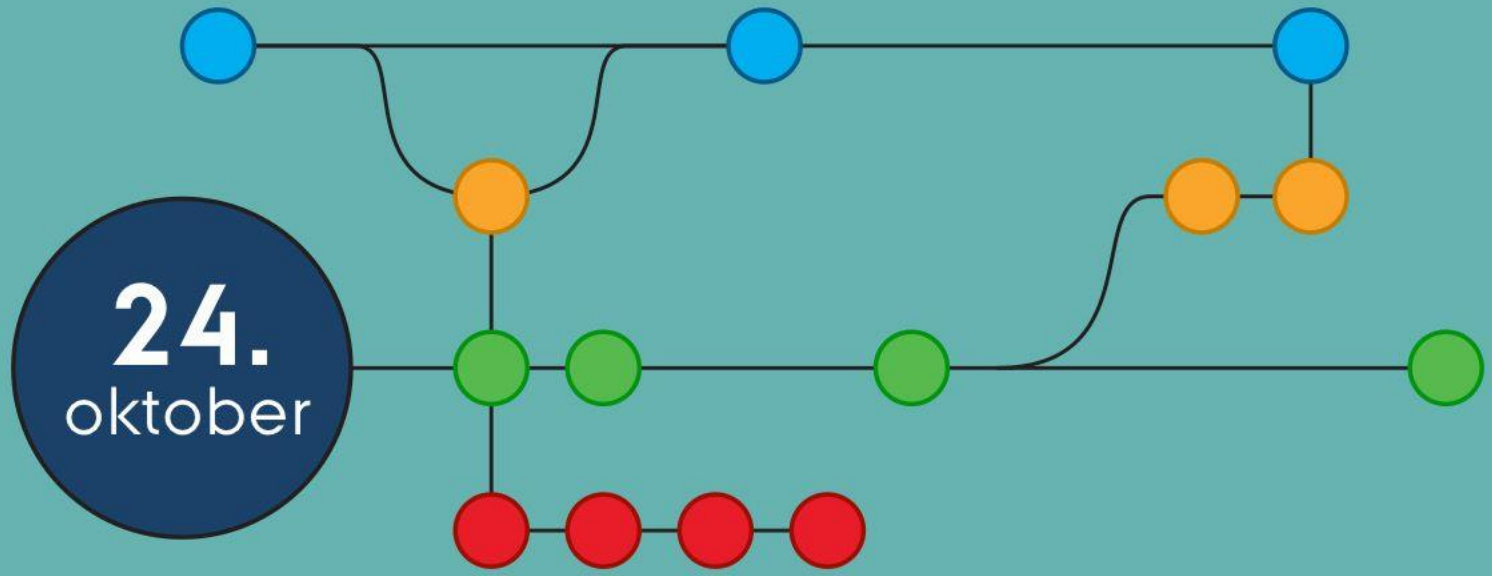
1. Add the path to the PATH environment variable

2. Open a terminal and type the name of the program

Version Control – RIP OneDrive

Part #2 of Hack Your Education

Scan QR-koden for info og tilmelding!



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