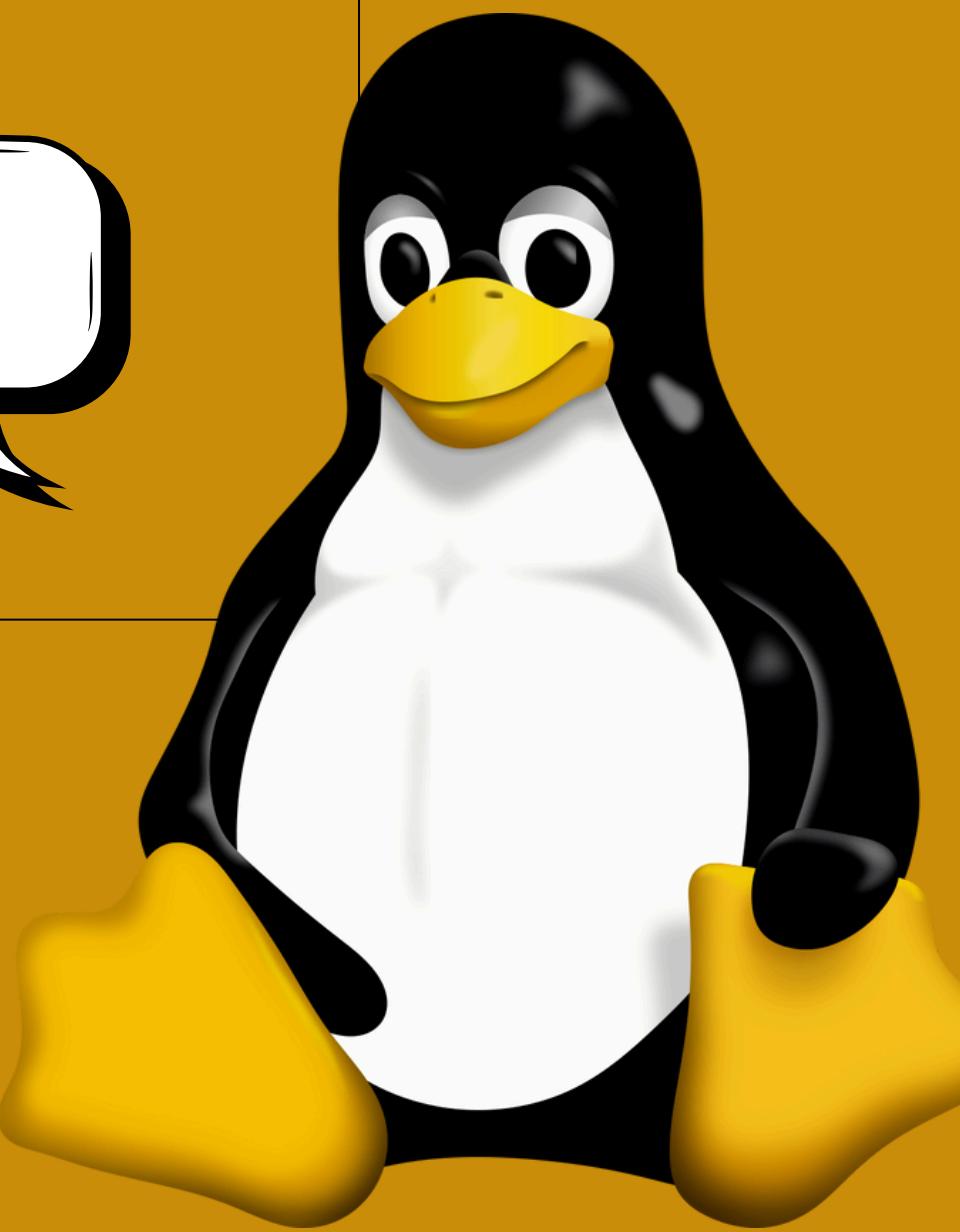


Building Bash Script

- Logic & WorkFlow
- Manipulate Data
- Function
- Data Structure

Bash!

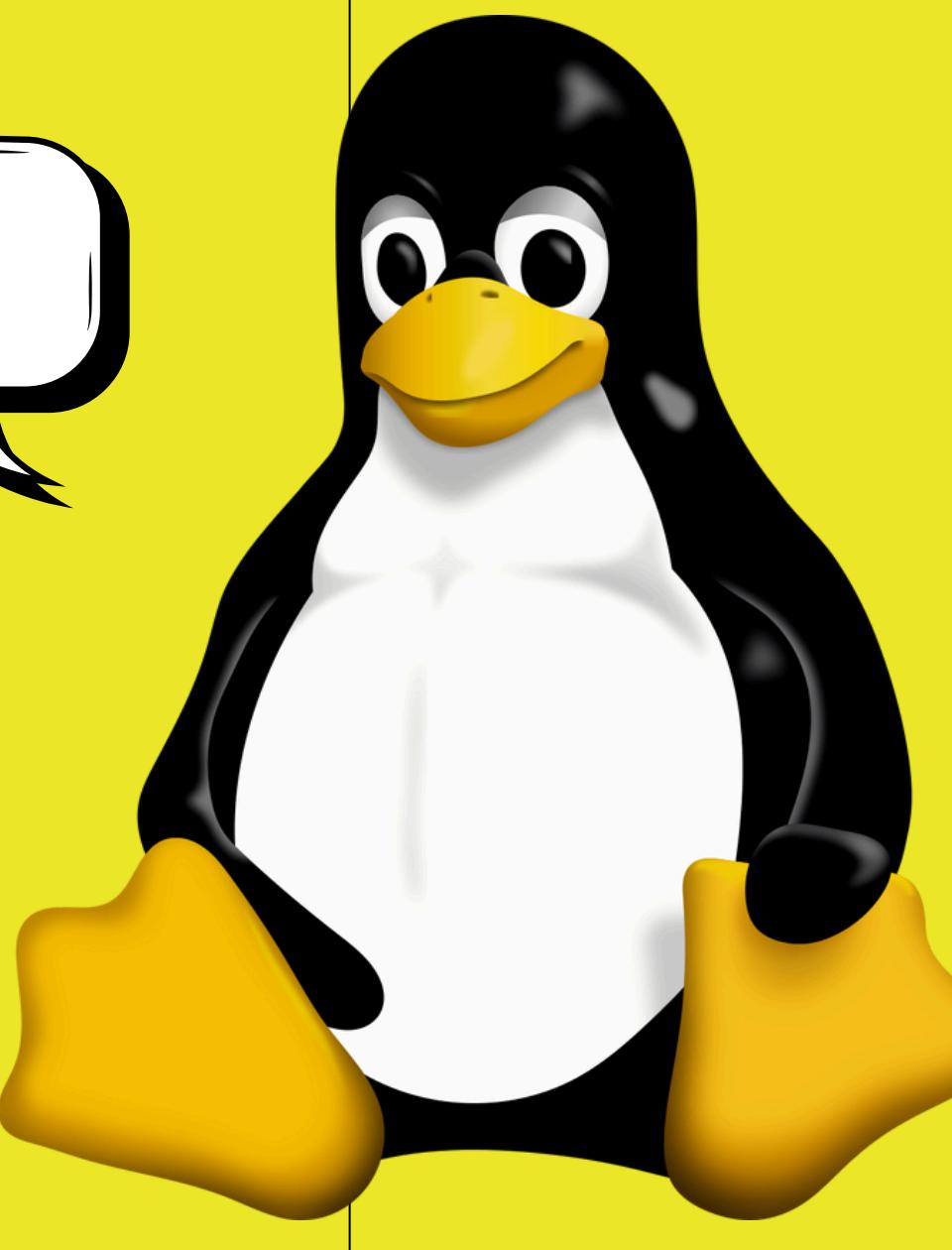


Logic & WorkFlow :

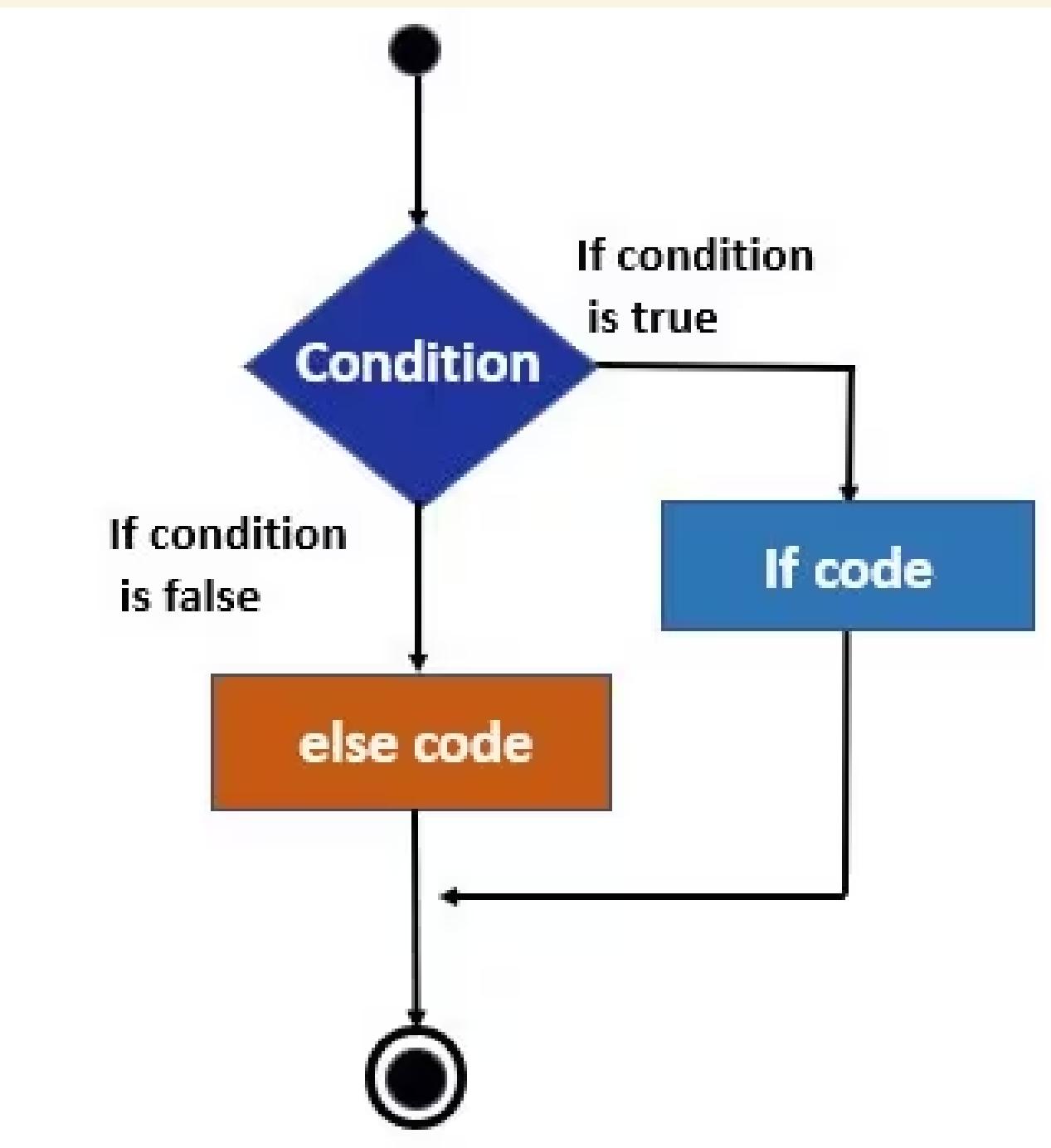
Logic & WorkFlow :

- if-else Logic,
- and or Logic
- for loop
- while loop

Stream



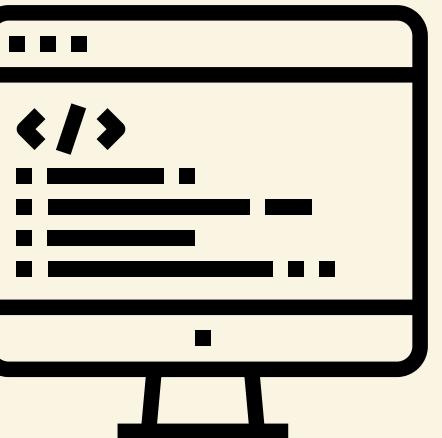
If else condition



And OR



&&



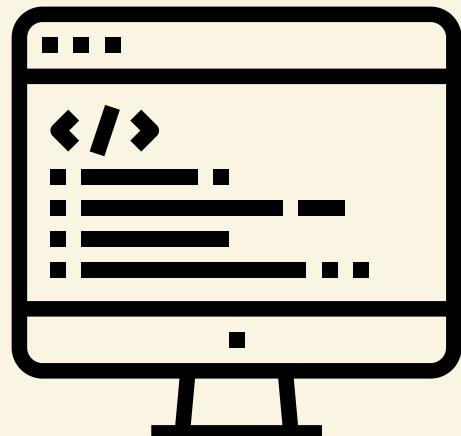
&&



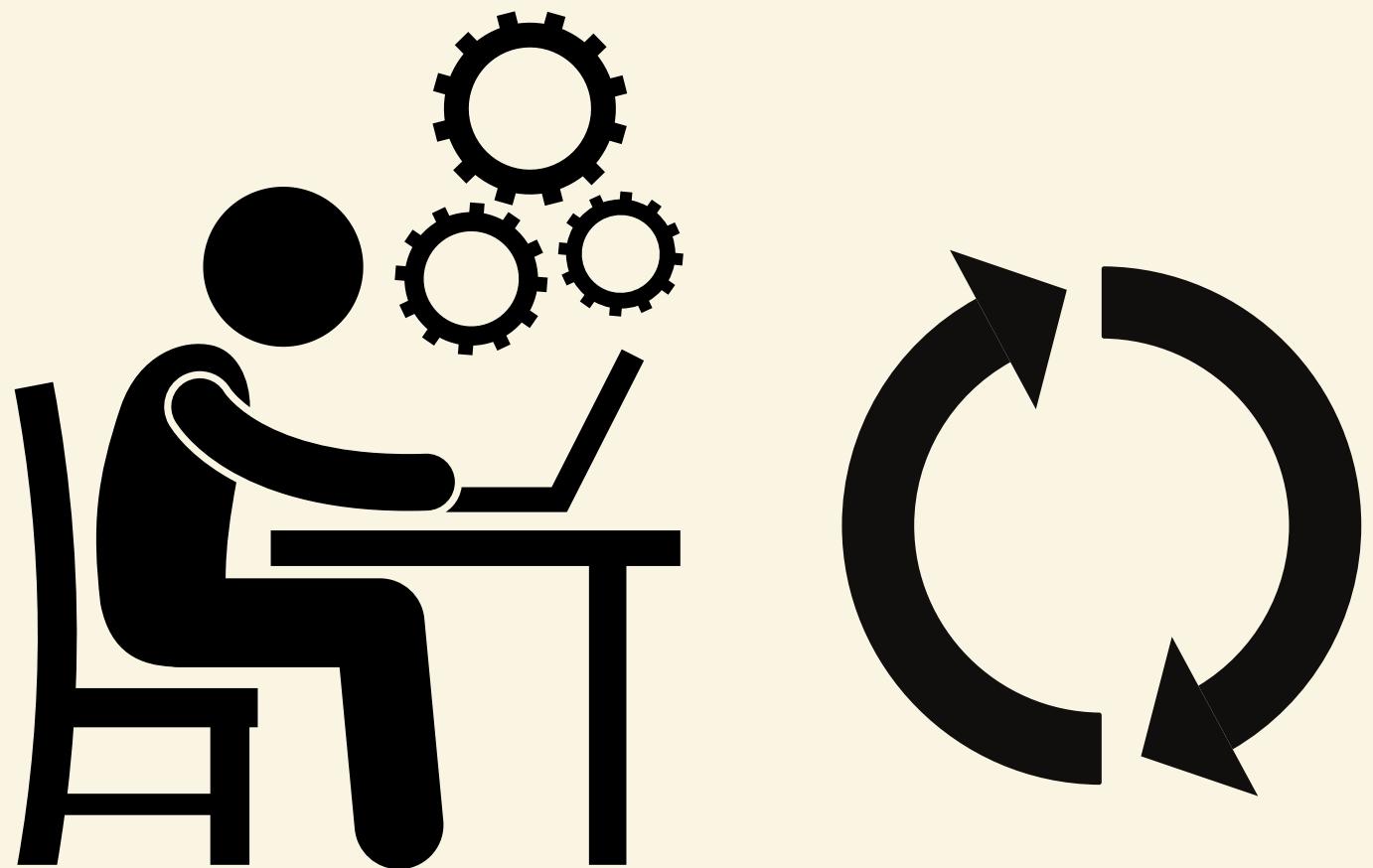
||



||



for and while loop



echo 100 lines!

echo "..."

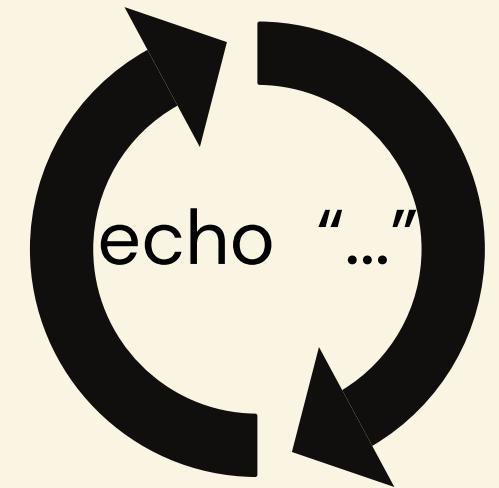
echo "..."

echo "..."

oo
oo
oo

echo "..."

for / while



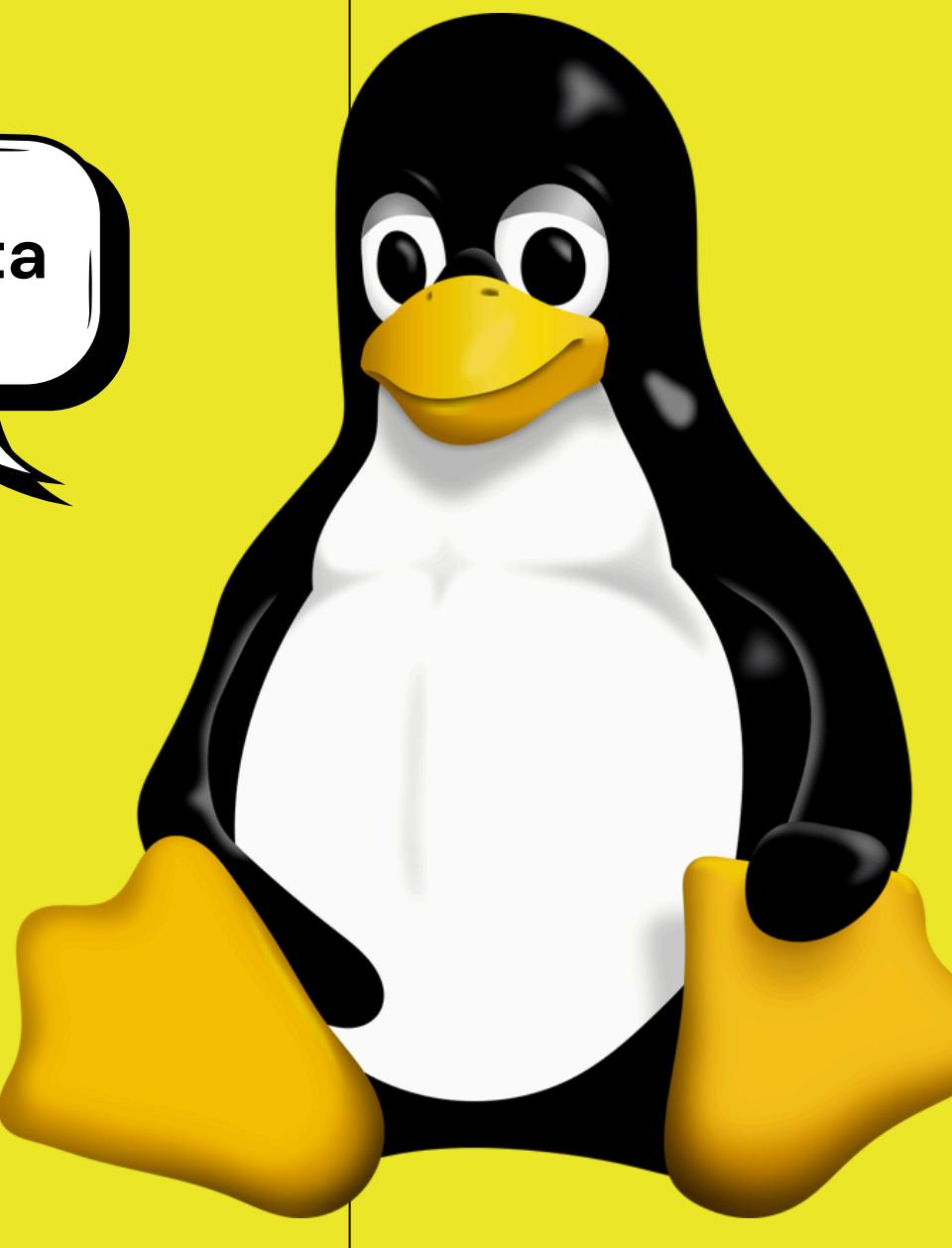
done

Manipulate Data

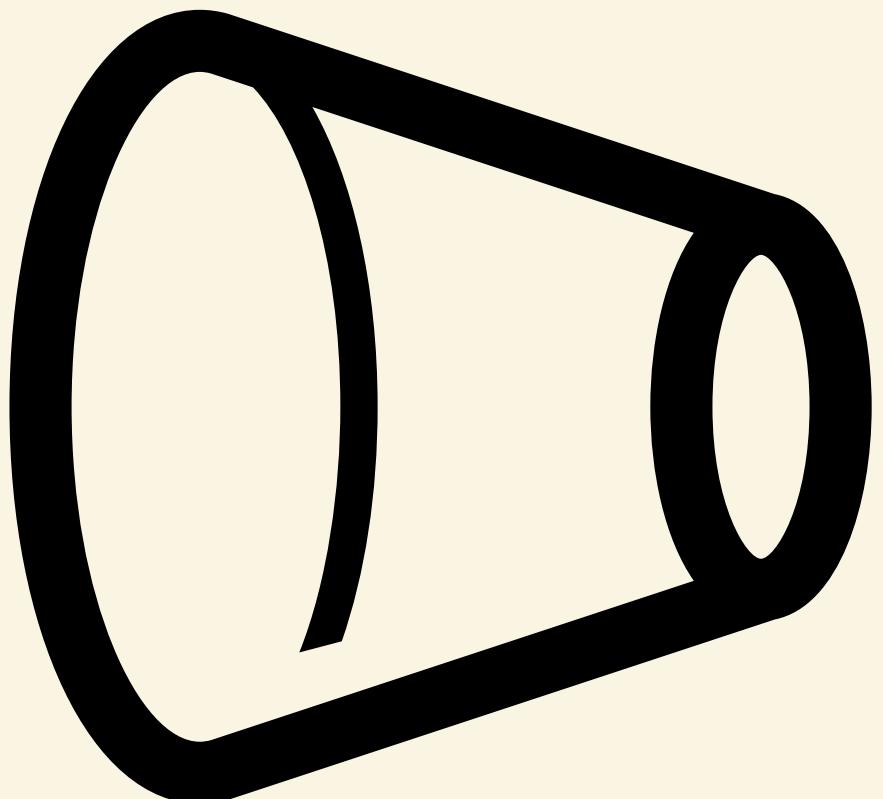
Technique :

- Truncate
- Filter
- Search

handle with data



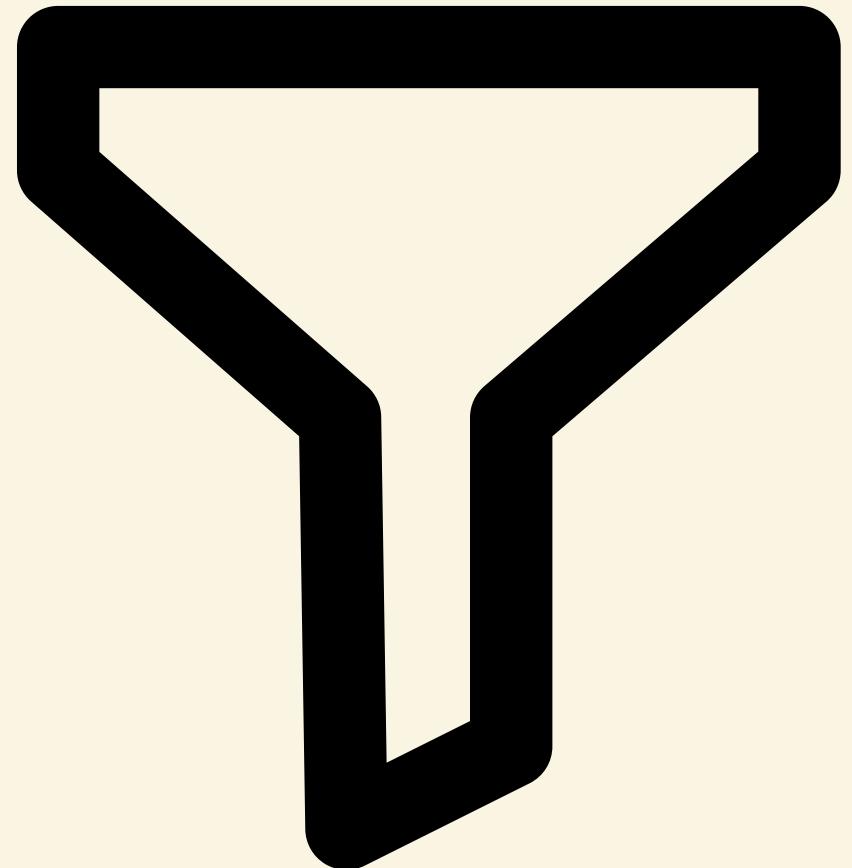
TRUNCATE



head
tail

	A	B	C	D	E	F	G	H	I	J	K
91	7273574 online shopping	google	720								
92	7273573 novels	google	4400				N,J,M,V			M	
93	7273574 online store	google	5400				N,J,M			M	
94	7273575 buy online	google	2400		3	http://www.I			3	http://www.M	
95	7273576 amazon uk	google	135000				M			M	
96	7273577 online shops	google	880							M	
97	7273578 tent	google	40500		34	http://poi/I			31	http://poi/M	
98	7273579 bookstore	google	49500				M			N,J,M	
99	7273580 led tv	google	33100								
100	7273581 samsung tv	google	90500		9	http://www.M			76	http://www.M	
101	7273582 iphone case	google	27100		64	http://www.N,J,M,V			84	http://www.M	
102	7273583 book store	google	18100				I			M	
103	7273584 what is a kindle fire	google	2400		19	http://www.N,M,V			26	http://www.M	
104	7273585 textbook	google	9900		3	http://www.M			3	http://www.M	
105	7273586 free books	google	40500				M			M	
106	7273587 textbooks	google	49500		2	http://www.N,M,V			3	http://www.N,M	
107	7273588 online book	google	2400		74	http://bo/I			35	http://bo/I	
108	7273589 book online	google	1600		49	http://bo/I			49	http://bo/I	
109	7273590 e books	google	9900				N,M			M	
110	7273591 bookstores	google	12100				N,J,M			M	
111	7273592 iphone cases	google	90500		47	http://www.N,J,M,V			44	http://www.I,M,V	
112	7273593 book on line	google	170		44	http://books.half.eb			28	http://bo/I	
113	7273594 free ebook	google	4400				M,V			M	

FILTER



grep
-c



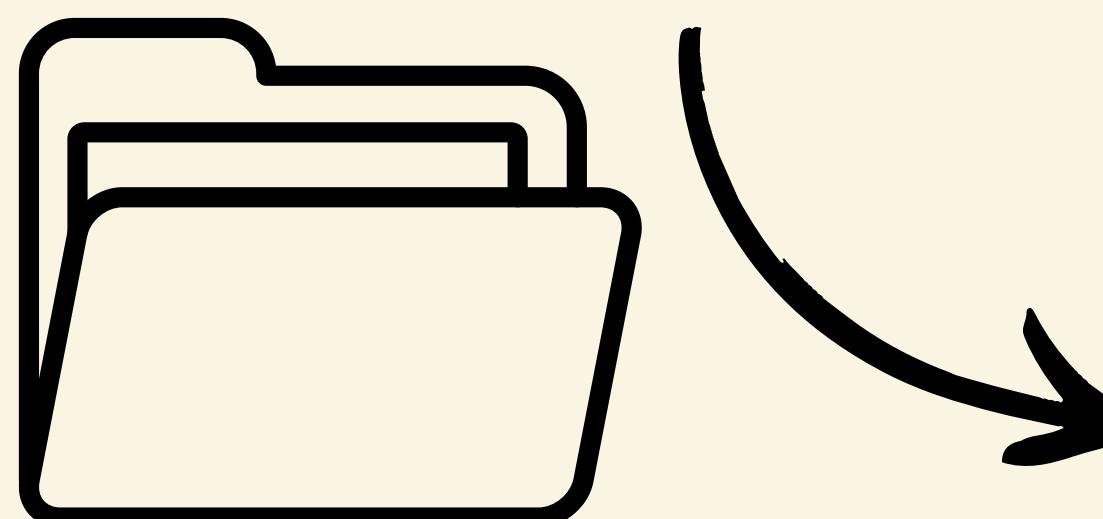
SEARCH



find



by size
by date
by format
by name



find . -name

find . -name thisfile.txt

find . -name "rc.sh" -exec chmod +x '{}' \\;

find /home -name *.jpg

find . -type f -empty

find / -name "*jpg" -mtime 5

find . -type f -name ":"

find / -size +250M

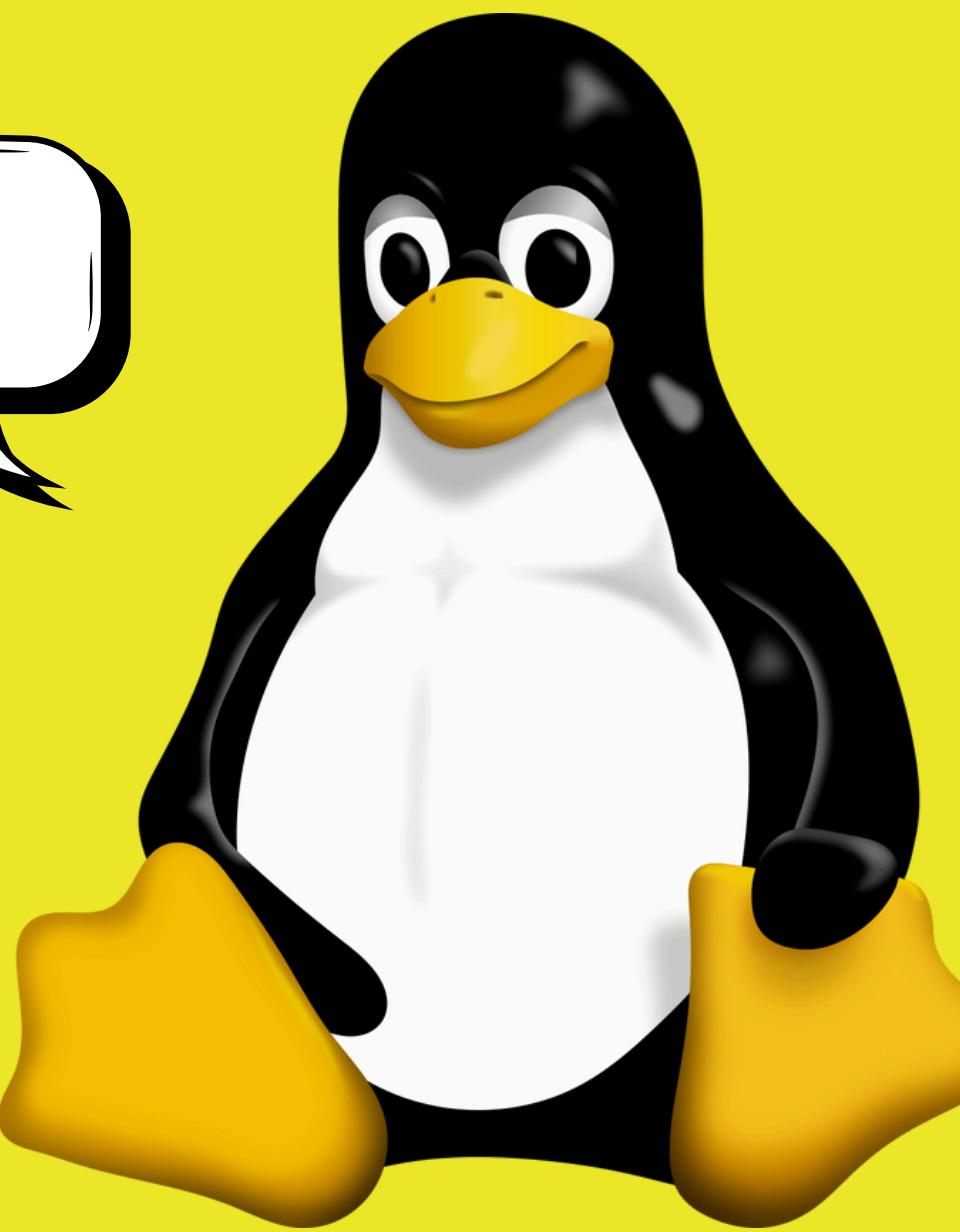
-type f – Look for files

-type d – Look for directories

Function

$f(x)$

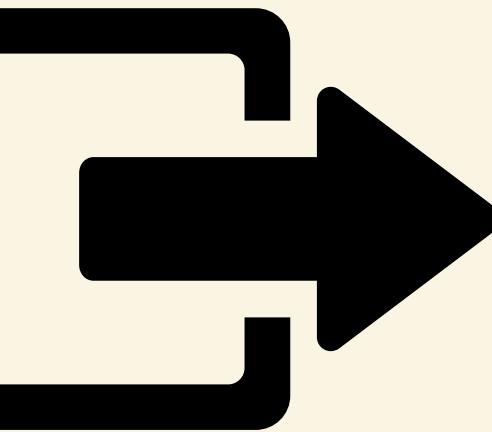
function



\times



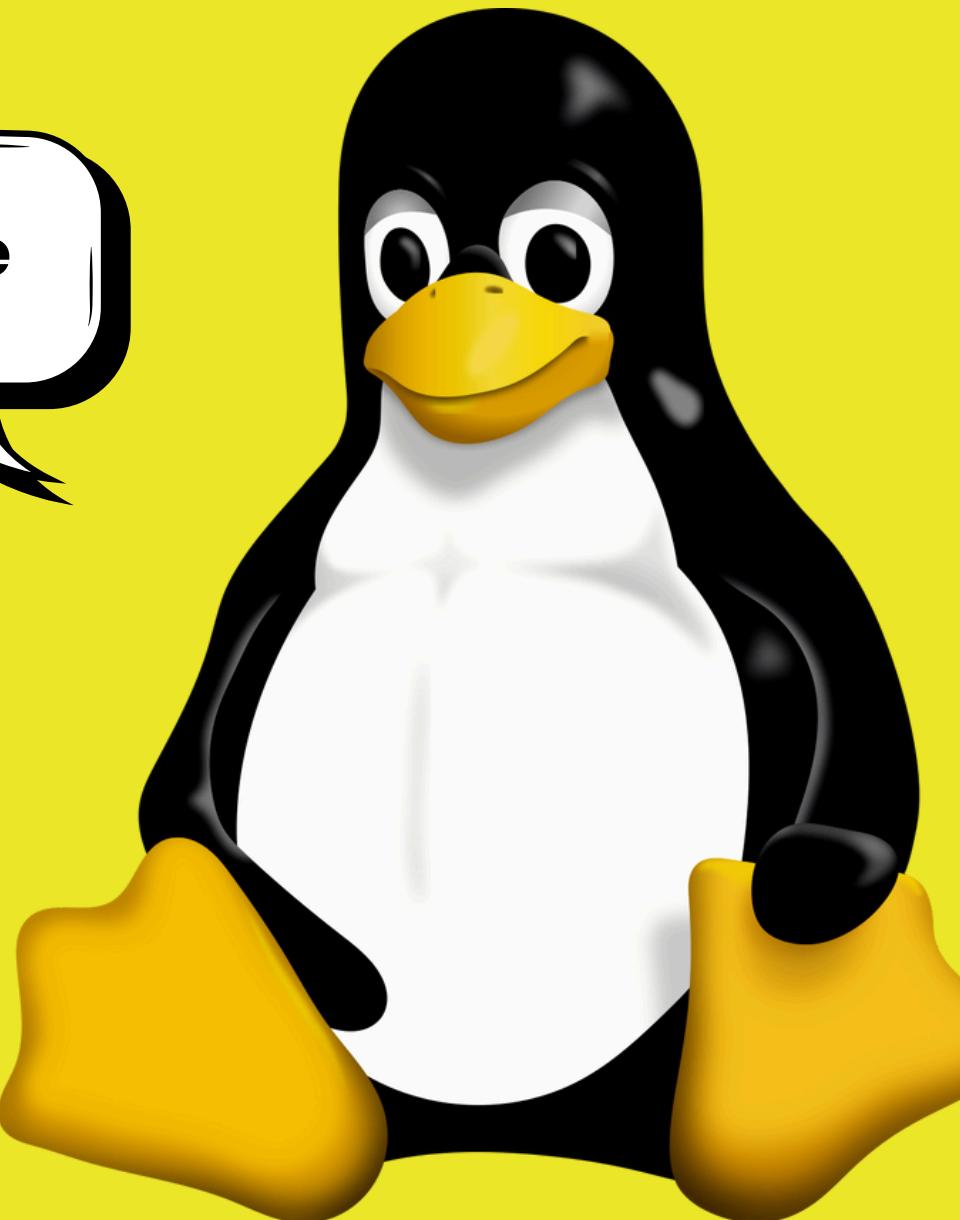
$f(x)$



Data Structure

- array
- hash

Data structure



Array (Value)

```
declare -a array=("bird""lion""ant")
```

Hash (Key -> Value)

```
declare -A melhash=([dinner]="steak" [lunch]="salad" [breakfast]="fruit")
```

Archive

- tar
- zip

compress!

