BASICS IN COMMAND LINE

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Let's check out the basics! :)

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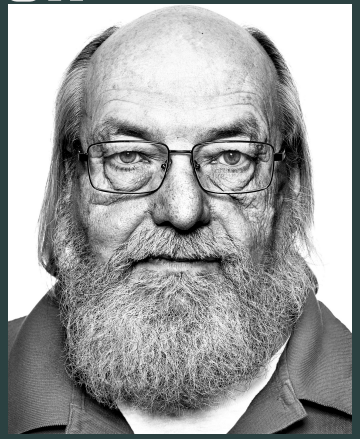
sh



1971

Thompson Shell

(Ken Thompson)

sh

1979

Bourne Shell

(Stephen R. Bourne)

bash

1989

Bourne-again shell

(Brian Fox)

The following shortcuts will help you moving faster

CTRL + <- / CTRL + ->	Jump over words
HOME / END	Move to the beginning / end of the line
CTRL + K	Delete the end of the line
CTRL + L	Clear the screen
CTRL + D	Close the session

$ move faster_

Well, where are my demo files?

$ find_

Search all files starting with “num*”

```
$ find . -name 'num*'
```

List them with sizes

```
$ find . -name 'num*' -exec du -h {}\;
```

Discard big files

```
$ find . -name 'num*' -size -500k -exec du -h {} \;
```

That's fine. I want to see the content

$ cat, more & less_

Show the whole file

```
$ cat nums1
```

Navigate through the file

```
$ more nums2
```

```
$ less nums2
```

$ wc, head & tail_

Show number of lines

```
$ wc -l nums2
```

Show the beginning of the file

```
$ head nums2
```

```
$ head nums{2|4}
```

All lines except last X

```
$ head -n-X
```

All lines except first X

```
$ tail -n+X
```

Display data being appended to a file

```
$ tail -f /var/log/syslog
```

Combining both

```
$ cat file | head -n 25 | tail -n 5
```

So... Do I have two identical files?

Show differences in command line

```
$ diff nums2 nums4 --side-by-side --color
```

Show them in Vim

```
$ gvimdiff nums2 nums4
```

Calculate the hash

```
$ md5sum nums{2,4}
```

$ diff, gvimdiff & md5sum_

Uf... I'm not going to remember!

Check the command history

```
$ history
```

Store the command as an alias

```
$ alias l='tree -L 1'
```

Add stuff to your profile

```
$ vim ~/.bashrc
```

$ history, alias & profile_

Enough. Let’s put this in practice

(demo time)

Ultra-simple one-liner events monitor

mydb.csv

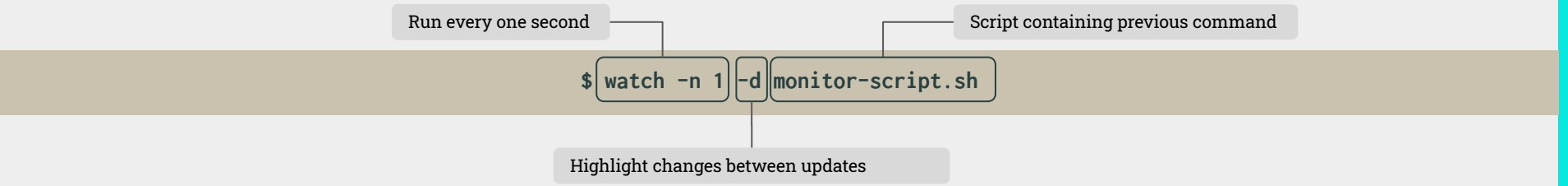
```
28,375146,email-received,2019-08-22 20:29:48.346071
27,375462,email-sent,2019-08-22 19:56:56.854571
26,375580,email-sent,2019-08-22 19:56:12.463198
25,375566,email-sent,2019-08-22 19:55:24.155422
23,375501,email-sent,2019-08-22 19:52:42.558356
22,375555,email-sent,2019-08-22 19:50:41.026608
21,324899,email-received,2019-08-22 17:20:31.838284
20,320395,email-received,2019-08-22 17:20:21.442271
19,374966,email-received,2019-08-22 16:50:35.842953
...
```

Ultra-simple one-liner events monitor

Using **watch** we can see how the file is being modified

```
Every 1,0s: ./monitor.sh

      3 email-received,2019-08-21
      9 email-received,2019-08-22
      1 email-received,2019-08-24
      3 email-received,2019-08-25
      2 email-received,2019-08-26
      1 email-received,2019-08-27
      4 email-received,2019-08-29
```



Thanks!

Does anyone have any question?

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