# Vandex

## Unix Command Line

File content exploration Part I

How can we explore files?

## Files exploration commands

- > cat
- > head
- > tail
- > more
- > less
- > WC
- > grep

#### cat

- > displays the contents of a file at the command line
- > copies or append text files into a document

cat [OPTION]... [FILE]...

#### cat



#### cat

```
yandex — bash
emily-osx-2:tmp_directory emily$ cat file.txt multilined_file.txt
My new file
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
line11
line12
line13
line14
line15
line16
line17
line18
line19
line20
emily-osx-2:tmp_directory emily$
```

## head

> prints the first part of files

head [OPTION]... [FILE]...

## head

```
yandex — bash
emily-osx-2:tmp_directory emily$ head multilined_file.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
emily-osx-2:tmp_directory emily$
```

## head -n

```
yandex — bash
emily-osx-2:tmp_directory emily$ head -7 multilined_file.txt
line1
line2
line3
line4
line5
line6
line7
emily-osx-2:tmp_directory emily$ head -4 multilined_file.txt
line1
line2
line3
line4
emily-osx-2:tmp_directory emily$
```

## tail

> prints the last part of files

tail [OPTION]... [FILE]...

## tail

```
yandex — bash
emily-osx-2:tmp_directory emily$ tail multilined_file.txt
line11
line12
line13
line14
line15
line16
line17
line18
line19
line20
emily-osx-2:tmp_directory emily$
```

## tail-n

```
yandex — bash
emily-osx-2:tmp_directory emily$ tail -1 multilined_file.txt
line20
emily-osx-2:tmp_directory emily$ tail -7 multilined_file.txt
line14
line15
line16
line17
line18
line19
line20
emily-osx-2:tmp_directory emily$
```

#### more

> displays text, one screen at a time

#### more

```
yandex — bash
emily-osx-2:tmp_directory emily$ more multilined_file.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
line11
line12
line13
line14
line15
line16
line17
line18
line19
line20
emily-osx-2:tmp_directory emily$
```

## less

> displays text, allows scrolling

## less



#### WC

 "word count" prints a count of lines, words, and bytes for each file

wc [OPTION]... [FILE]...

#### WC

```
yandex — bash
emily-osx-2:tmp_directory emily$ wc multilined_file.txt
     20
             20
                   131 multilined_file.txt
emily-osx-2:tmp_directory emily$
```

#### WC -C

```
yandex — bash
emily-osx-2:tmp_directory emily$ wc -c multilined_file.txt
    131 multilined_file.txt
emily-osx-2:tmp_directory emily$
```

## WC -

```
yandex — bash
emily-osx-2:tmp_directory emily$ wc -l multilined_file.txt
     20 multilined_file.txt
emily-osx-2:tmp_directory emily$
```

## grep

 "global regular expression print" processes text and prints any lines which match a specified pattern

grep [OPTIONS] PATTERN [FILE...]

## grep

```
yandex — bash
emily-osx-2:tmp_directory emily$ grep '15' multilined_file.txt
line15
emily-osx-2:tmp_directory emily$ grep '1' multilined_file.txt
line1
line10
line11
line12
line13
line14
line15
line16
line17
line18
line19
emily-osx-2:tmp_directory emily$
```

## In-video quiz

- How can we print first 17 lines of "temporary\_logs.txt"?
- How can we calculate number of lines for file "temporary\_logs.txt"?
- > How can we print all lines from file "temporary\_logs.txt", that contains 'data' substring?

## Outcome

- For exploring files content we use the following commands:
  - cat print file content
  - > head/tail print firt/last part of files
  - > more/less output file content by screens
  - > wc "word count"
  - grep find any lines which match a specified pattern

## BigDATAteam