Yandex

Unix Command Line

File system managing

How can we modify files and directories?

File system exploration commands
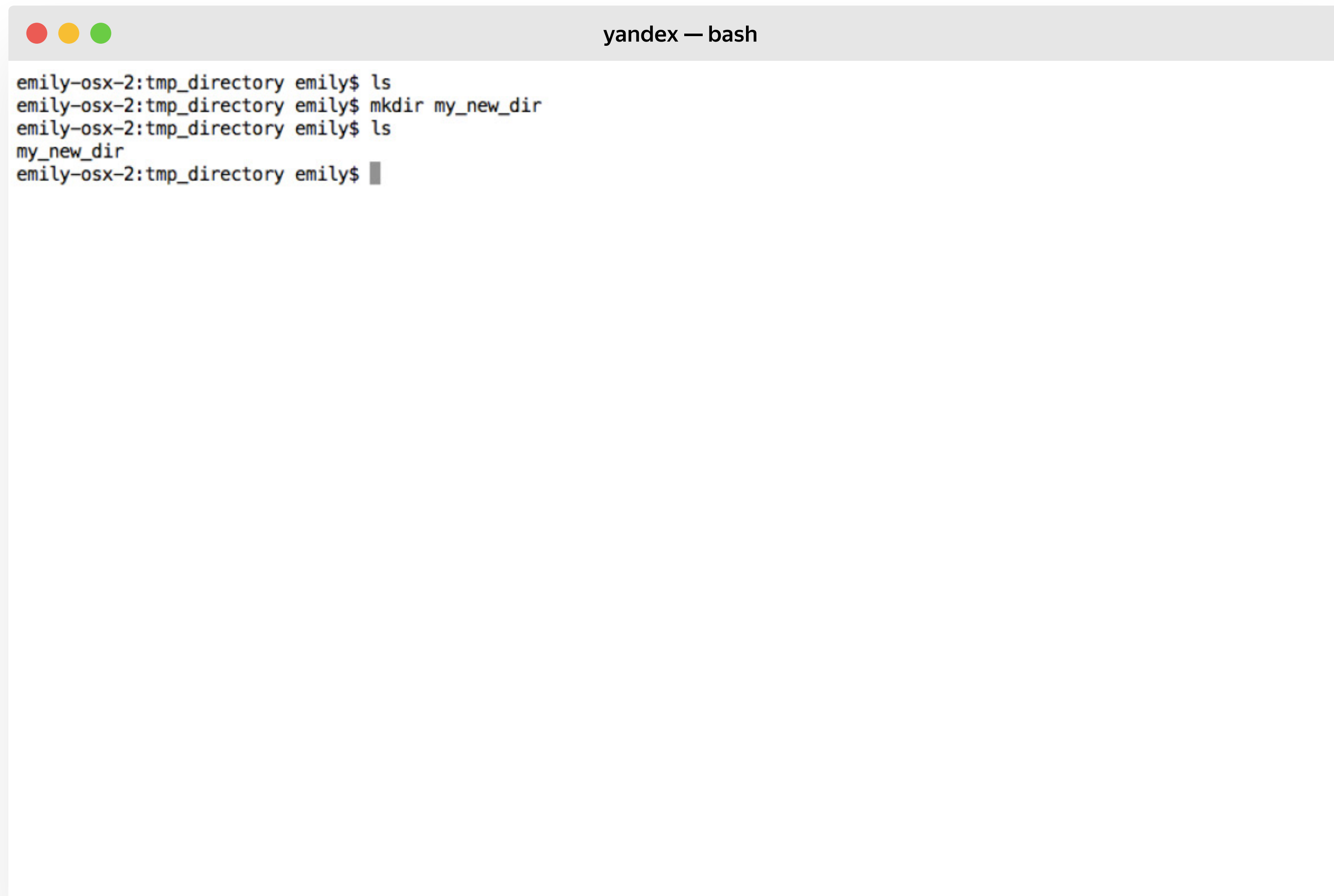
› mkdir

› cp

› mv

› rm

› touch

mkdir

› "make directory", creates directories on a file system
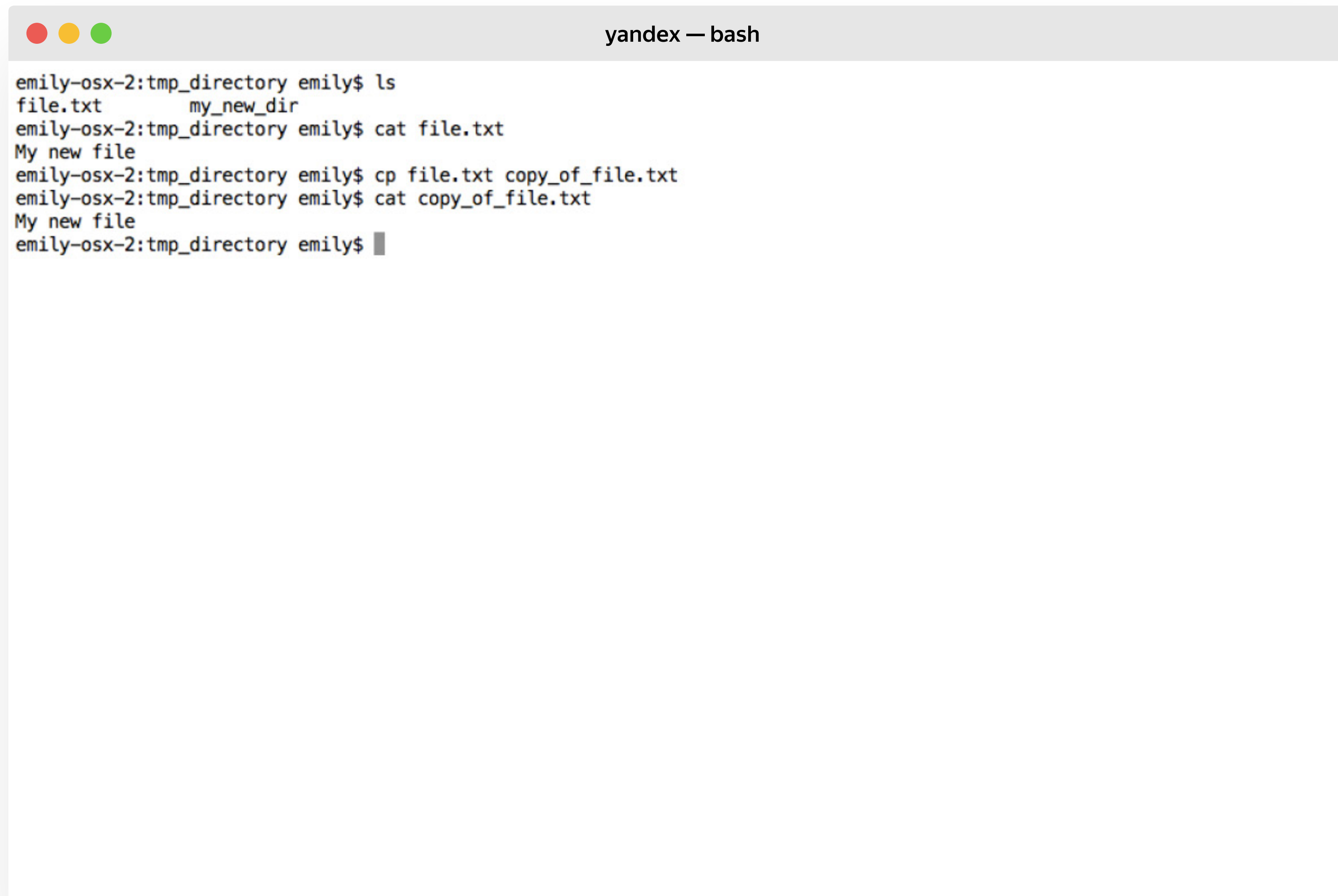
mkdir [OPTION ...] DIRECTORY ...

mkdir

```
emily-osx-2:tmp_directory emily$ ls
emily-osx-2:tmp_directory emily$ mkdir my_new_dir
emily-osx-2:tmp_directory emily$ ls
my_new_dir
emily-osx-2:tmp_directory emily$ 
```

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cp

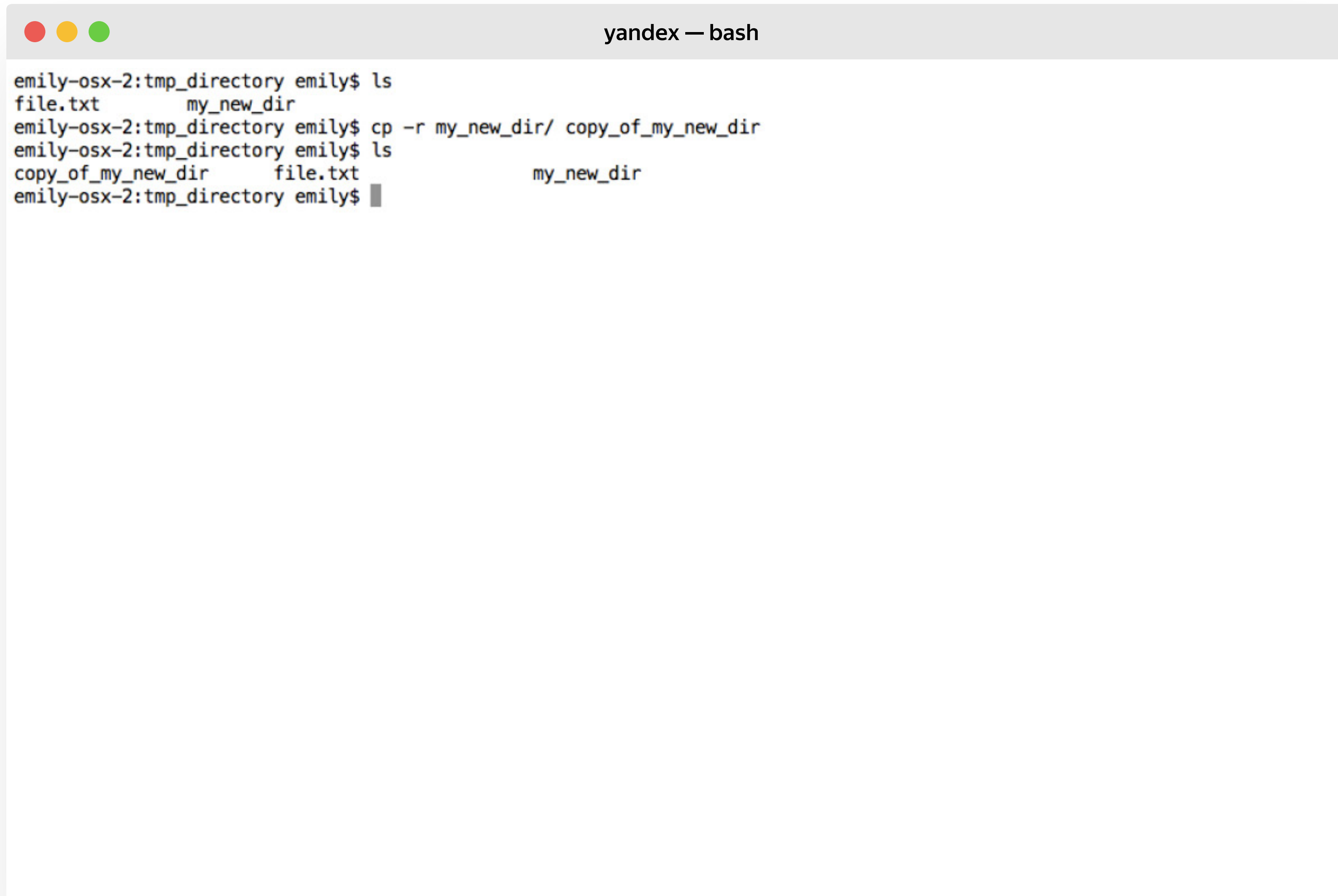› makes copies of files and directories

cp [OPTION]... SOURCE... DIRECTORY

cp

```
emily-osx-2:tmp_directory emily$ ls
file.txt        my_new_dir
emily-osx-2:tmp_directory emily$ cat file.txt
My new file
emily-osx-2:tmp_directory emily$ cp file.txt copy_of_file.txt
emily-osx-2:tmp_directory emily$ cat copy_of_file.txt
My new file
emily-osx-2:tmp_directory emily$
```

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cp -r

```
emily-osx-2:tmp_directory emily$ ls
file.txt          my_new_dir
emily-osx-2:tmp_directory emily$ cp -r my_new_dir/ copy_of_my_new_dir
emily-osx-2:tmp_directory emily$ ls
copy_of_my_new_dir          file.txt                  my_new_dir
emily-osx-2:tmp_directory emily$
```

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mv

› moves or renames files

mv [OPTION]... SOURCE... DIRECTORY

mv

rm

› removes (deletes) files or directories

rm [OPTION]... FILE...

rm
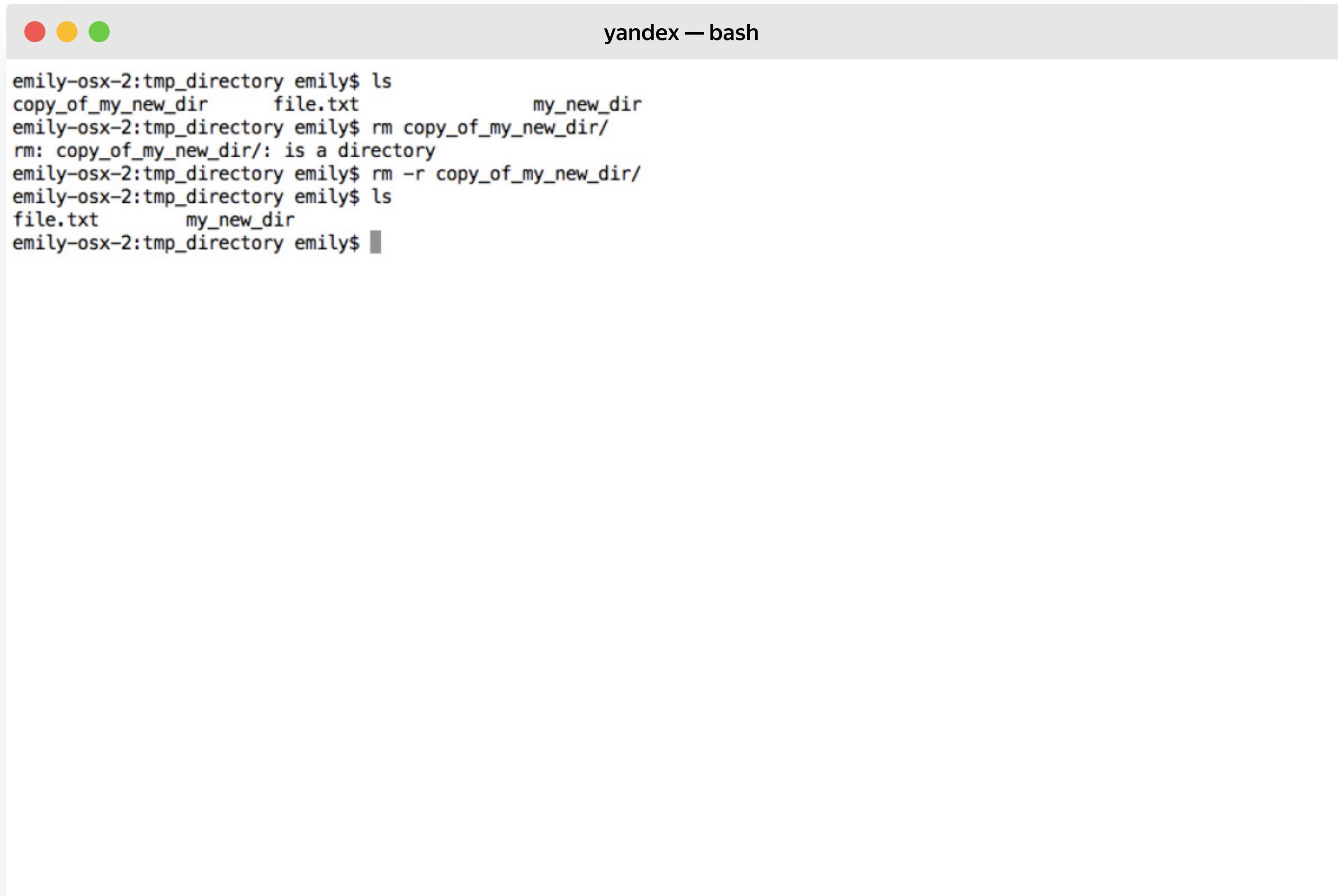
```
emily-osx-2:tmp_directory emily$ ls
copy_of_file.txt        copy_of_my_new_dir        file.txt                my_new_dir
emily-osx-2:tmp_directory emily$ rm copy_of_file.txt
emily-osx-2:tmp_directory emily$ ls
copy_of_my_new_dir        file.txt                my_new_dir
emily-osx-2:tmp_directory emily$
```

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rm -r

```
emily-osx-2:tmp_directory emily$ ls
copy_of_my_new_dir      file.txt                my_new_dir
emily-osx-2:tmp_directory emily$ rm copy_of_my_new_dir/
rm: copy_of_my_new_dir/: is a directory
emily-osx-2:tmp_directory emily$ rm -r copy_of_my_new_dir/
emily-osx-2:tmp_directory emily$ ls
file.txt        my_new_dir
emily-osx-2:tmp_directory emily$ 
```

touch

› changes file timestamp

touch [OPTION]... FILE...

touch

```
emily-osx-2:tmp_directory emily$ ls -la
total 8
drwxr-xr-x    4 emily  593637566    136 19 июл 01:05 .
drwxr-xr-x+ 66 emily  593637566   2244 19 июл 00:59 ..
-rw-r--r--    1 emily  593637566     12 19 июл 01:00 file.txt
drwxr-xr-x    3 emily  593637566    102 19 июл 01:02 my_new_dir
emily-osx-2:tmp_directory emily$ touch file.txt
emily-osx-2:tmp_directory emily$ ls -la
total 8
drwxr-xr-x    4 emily  593637566    136 19 июл 01:05 .
drwxr-xr-x+ 66 emily  593637566   2244 19 июл 00:59 ..
-rw-r--r--    1 emily  593637566     12 19 июл 01:05 file.txt
drwxr-xr-x    3 emily  593637566    102 19 июл 01:02 my_new_dir
emily-osx-2:tmp_directory emily$ ▌
```

touch

```
emily-osx-2:tmp_directory emily$ ls
file.txt        my_new_dir
emily-osx-2:tmp_directory emily$ touch new_empty_file.txt
emily-osx-2:tmp_directory emily$ ls
file.txt                my_new_dir              new_empty_file.txt
emily-osx-2:tmp_directory emily$ ls -ls
total 8
8 -rw-r--r--  1 emily  593637566   12 19 июл 01:05 file.txt
0 drwxr-xr-x  3 emily  593637566  102 19 июл 01:02 my_new_dir
0 -rw-r--r--  1 emily  593637566    0 19 июл 01:06 new_empty_file.txt
emily-osx-2:tmp_directory emily$ 
```

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In-video quiz

> How to create empty file '**tmp.txt**'?

> How to rename file '**tmp.txt**' to
'temporary_logs.txt'?

> How to delete all '**.txt**' files in the current directory?

Outcome

› For modifying files and directories we use the following bash commands:

    › **mkdir** — make directory

    › **cp** — copy file or directory

    › **mv** — move or rename file or directory

    › **rm** — delete file or directory

    › **touch** — update file timestamps or create empty file

BigDATAteam