

# Bash - The Basics

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# Introduction

Terminal emulators - *“A program that emulates a video terminal within some other display architecture”* -

[en.wikipedia.org/wiki/Terminal\\_emulator](https://en.wikipedia.org/wiki/Terminal_emulator)

Examples on OS X:

- ▶ Terminal (preinstalled)
- ▶ iTerm 2 - [iterm2.com](http://iterm2.com)
- ▶ Terminator

Terminals run shells e.g. Bash, Zsh, Ksh, fish

# Introduction

Bash - “**GNU Bourne-Again SHell**”

GNU - *“A Unix-like operating system. That means it is a collection of many programs: applications, libraries, developer tools, even games”* - [gnu.org](http://gnu.org)

Bourne SHell - The Bourne shell (`sh`). Developed by Stephen Bourne at Bell Labs in 1977 for Version 7 Unix -  
[en.wikipedia.org/wiki/Bourne\\_shell](http://en.wikipedia.org/wiki/Bourne_shell)

We can use shells like Bash to run programs

## Commonly used programs

man, ls, cat, cp, mv, rm, rmdir, mkdir, chmod, ln,  
sudo, !, echo, pwd, diff, history, find, history,  
ssh, scp, less, more, grep

Open your terminal emulator...

# man

man - format and display the on-line manual pages

```
$ man ls
```

# ls

ls - list directory contents

```
$ ls
```

```
$ ls -al
```

# cat

cat - concatenate and print files

```
$ cat README.md
```

```
# bash-basics
```

```
Presentation on the basics of bash
```