

Mac Tips

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- The antispam filter in Mail is not active by default. Enable it under Preferences
- To add colors to vim editor: create a configuration file, open the terminal and enter:
`host $ echo -e "syntax on" >> ~/.vimrc`
- To set tab space to 4 in vim
`host $ echo -e ":set tabstop=4|n:set shiftwidth=4|n:set expandtab" >> ~/.vimrc`
- To rename a pages document: open finder, select Documents from the sidebar, highlight that document, and press Enter
- To copy and past string format in Notes: select text, Format->Font->Copy Style, move cursor to., Format->Font->Paste Style
- To open Spotlight: click Cmd+Space
- From Spotlight we can do calculations, and drag expression into Note. Ex: $\tan(\pi/4) = 1$
- From Spotlight we can search for a <item> and <type> of document with <item>:<type>. We can also use boolean operators AND,OR, ..
- To add an item (app/file/folder) in the Finder's Sidebar: hold down Cmd, then drag the item to the Favorites section.
- To remove the item from the Finder's Sidebar: drag the item icon out of the sidebar until you see a gray remove sign (x)
- To retrieve a file from Time Machine backup: enter Time Machine, select the desired file in the right backup, press Restore button
- To see system events and log messages run Console.app
- To empty thrash: Cmd+Shift+Backspace
- To force quit an app: Cmd+Opt+ESC
- Go through Finder to a very long path string
 1. Copy the path
 2. Open Finder
 3. Press Cmd+Shift+G, then paste the path
- Get through Finder the path string of a file
 1. right click on the filename in the bottom bar
 2. copy as Pathname
- Launch a Terminal session from Finder
 1. Select the directory
 2. Finder > Services > New Terminal at Folder
- To import a .MOV video in iMovie, first convert the video in MP4 (for example you can use free converter HandBrake)
- To check active processes run Activity Monitor native app, or from Terminal
`$ launchctl list`
To stop a process in the current session
`$ sudo launchctl remove <process>`
- To disable a program
`$ sudo launchctl disable system/com.teamviewer.service`
To re-enable
`$ sudo launchctl enable system/com.teamviewer.service`
- Path of the KINGSTON USB Drive: /Volumes/KINGSTON
- To activate disk encryption with FileVault: from System Preferences->Security&Privacy->FileVault (this will slow down a lillie the mac)
- To AES encrypt a folder using Disk Utility
 1. Run Disk Utilities from Spotlight
 2. File > New Image > Image From Folder
 3. Select the folder
 4. Select the Encryption algorithm and the Image Format (read-write)
 5. Insert password (do not use keychain to store it)

6. Now you have the .dmg archive. Access it as a disk (double click to mount, eject to unmount)
- To create a self-signed certificate to code sign a program <prg>
 1. Open Keychain Access application
 2. Select Certificate Assistant > Create a Certificate
 3. Only Modify the following parameters
 - Name of Certificate = <prg>-cert
 - Identity Type = Self Signed Root
 - Certificate Type = Code Signing
 4. Check the Let me override defaults checkbox, and click Continue.
 5. On the next page, leave Security Number to be 1, and set Validity Period to 3650 (10 years!!).
 6. Then keep clicking Continue and typing in your password until Specify a Location For The Certificate.
 7. For the only property, Keychain, choose System from the drop-down list. Click Create and complete.
 8. Under System, double click on the certificate, open Trust section, and set Code Signing to Always Trust.
 9. Exit Keychain Access application.
 10. Restart the taskgated service, and sign the binary


```
$ sudo killall taskgated
```

```
$ codesign -fs <prg>-cert "$(which <prg>)"
```

Keyboard shortcuts in macOS

- The Apple "Command" key (⌘, or Cmd) corresponds to the "Windows" key on a standard keyboard
- The Apple "Option" key (⌥, or Opt) corresponds to Alt key on standard keyboard
- Take a screenshot of your whole screen
 1. Press Cmd+Shift+3
 2. Find the screenshot as a .png file on your desktop (unless redirected elsewhere)
- Take a screenshot of a area
 1. Press Cmd+Shift+4 (or 5), then drag the area
 2. Find the screenshot as a .png file on your desktop
- Go through Finder to a very long filesystem path
 1. Copy the path
 2. Press Cmd+Shift+G, then paste the path
- Refresh Finder window
 1. Press Cmd+Up
 2. Press Cmd+Down
- Show/Hide hidden files in Finder: Cmd + Shift + .
- Open Finder Preferences: Cmd+,
- Switch to/from desktop with open apps reduced in size: Fn + F3
- Switch to/from desktop free of any app: F11
- To forward delete a character type Fn + backspace
- To Cut and Paste a file in Finder:
 1. use Cmd+C to copy
 2. use Cmd+Opt+V to move the item to the new destination
- Full screen and back: Cmd + Ctrl + F
- During some background operation (like dd copying) to get statistical information: Ctrl + T
- Switch boot source: hold down Opt while turning ON
- Recovery mode: hold down Cmd+R while turning ON

Keyboard shortcuts in Terminal

- Clear the screen: Cmd+L
- Move the cursor at start/end of line: Fn+Shift+Left/Right

- Open/Close splitted terminal pane: Cmd+D / Cmd+Shift+D

Keyboard shortcuts in iTerm

- Move the cursor at start/end of line: Opt+Left/Right
- Open new splitted terminal pane: Cmd+D

Keyboard shortcuts in Safari

- Open new Tab: Cmd+T
- Switch from Tab to Tab: Ctrl+Tab
- Move cursor to the address bar: Cmd+L
- Scroll Down page: Space
- Scroll Up page: Shift+Space

Terminal shell commands

- To open a file from Terminal with a specific app:
\$ open <filename> -a <appname>
- To add an application to Gatekeeper exceptions
\$ spctl --add /Path/To/<appname>.app
- To remove application from Gatekeeper exceptions
\$ spctl --remove /Path/To/<appname>.app
- To authorize Gatekeeper to accept any application from any source:
 1. `spctl --master-disable`
 2. Launch System Preferences > Security & Privacy > General
 3. Select the "Anywhere" option under 'Allow apps downloaded from:' Gatekeeper options
- To clone and run a project from a remote repo:
\$ git clone https://github.com/bignerdranch/blog-ios-xcui-todo.git
\$ cd xcui-todo
\$ git checkout ui-tests-coming-soon
\$ open <prjname>.xcodproj
- To see the list of all installed packages
\$ pkgutil --pkgs
- To know the version of a specific packages, e.g. of Command Line Tools
\$ pkgutil --pkg-info com.apple.pkg.CLTools_Executables
- To create a UUID (e.g. 6D57FA74-00E3-4BCF-8AEE-F578E5E19D1A)
\$ uuidgen
- Launch a Terminal session inside another directory of given <dirpath>
\$ open -a Terminal <dirpath>
- Open a ssh session from gfmacmini to gfmacbook (username is gabrielefilosofi)
\$ ssh gabrielefilosofi@<gfmacbook_ip>
- Open a ssh session from gfmacbook to gfmacmini (username is gabrielef)
\$ ssh gabrielef@<gfmacmini_ip>
- Copy a file from gfmacbook to gfmacmini (username is gabrielef)
\$ scp <filename> gabrielef@<gfmacmini_ip>:"/Users/gabrielefilosofi| 1/"
- Run the Dunnet textual adventure by Ron Schnell (1982). `ronnie@driver-aces.com`
\$ emacs -batch -l dunnet
- To generate all strings of length <min> to <max> and save them in <filename>
\$ crunch 4 4 -o <filename>
- To generate all strings of length 8 beginning with bck_ followed by 4 numbers
\$ crunch 8 8 -t bck_%%%% -o <filename>
- To download, install and open an app from a web site. Consider this example
\$ cd ~/Download
\$ curl -O https://iterm2.com/downloads/stable/iTerm2-3_2_9.zip
\$ shasum -a 256 iTerm2-3_2_9.zip (<- ensure it gives the same hash provided on website)
\$ unzip iTerm2-3_2_9.zip
\$ mv iTerm.app/ /Applications/

- `$ spctl --add /applications/iTerm.app/` (*<- authorize Gatekeeper control. Requires password*)
- `$ nohup open /Applications/iTerm.app/ &>/dev/null &`
- To mount/unmount a disk image <diskimage>.dmg using Disk Utility
 - `$ hdiutil attach <diskimage>.dmg`
 - `$ hdiutil info` (to see the mount point, suppose /dev/diskfs2)
 - `$ hdiutil detach /dev/disk1s2`
- The default location for saving screenshots is Desktop. To change this to <myFolder>
 - `$ defaults write com.apple.screencapture location <myFolder>; killall SystemUIServer`
 - `$ defaults write com.apple.screencapture location ~/Dropbox/Screenshots; killall SystemUIServer`
- To encrypt/decrypt a file.txt to file.enc using AES 256 in CBC mode
 - `$ openssl enc -aes-256-cbc -salt -in file.txt -out file.enc`
 - `$ openssl enc -d -aes-256-cbc -in file.enc -out file.txt`
- To encrypt/decrypt a file.txt to file.enc using AES 256 in CBC mode. But the output is base64-encoded for, e.g. e-mail
 - `$ openssl enc -aes-256-cbc -a -salt -in file.txt -out file.enc`
 - `$ openssl enc -d -aes-256-cbc -a -in file.enc -out file.txt`
- To customize the bash prompt you just need to edit PS1 variable
 - `$ PS1='host $ '`
- To change the default shell (starting with macOS Catalina it has moved from bash to zsh)
 - `$ chsh -s <shellpath>`
 - where <shellpath> is one of the shell paths listed in /etc/shells, such as /bin/zsh, /bin/bash, /bin/csh, /bin/dash, /bin/ksh, /bin/sh, or /bin/tcsh

Keyboard shortcuts in Notes

- To escape from edit mode: Ctrl+Tab
- To enter edit mode: Right arrow
- To jump from folder perspective to search bar: Tab
- To jump to note top/bottom: Cmd+Up/Down

Keyboard shortcuts in Vim

- Move the cursor at start/end of line: Fn+Left/Right