

# MacBook Software Installation

My additional (main) installation/configuration steps were:

1. performed a software update to *Apple macOS Sequoia 15.5*;
2. in terminal did:
  - change umask to 027 (rights for *group* read-only, *others* nothing)

```
sudo launchctl config user umask 027
```

- change hostname;

```
sudo scutil --set HostName "my-macbook"  
# or/and (if really needed)  
sudo scutil --set LocalHostName "my-macbook"  
sudo scutil --set ComputerName "my-macbook"
```

- disabled automatic boot on power supply (see [article](#) on *Macworld*);

```
sudo nvram BootPreference=%02
```

- disable creation of `.DS_Store` files on network shares and removable media (like USB drives, according to [article](#) of University of Alaska);

```
defaults write com.apple.desktopservices DSDontWriteNetworkStores  
-bool TRUE  
defaults write com.apple.desktopservices DSDontWriteUSBStores -  
bool TRUE  
# verify with:  
defaults read com.apple.desktopservices
```

3. configured *iCloud* in System Settings » Apple-ID » *iCloud* (to fit 5GB space limit);
4. localized (to german language) the name of some 1st-level directories (as described in *Apple* developer article [Localizing the Name of a Directory](#));
5. created *Z Shell* init script `~/ .zshrc` and set some environment variables, for example: `EDITOR`, `TEXINPUTS`, `BIBINPUTS`, `PROJECTS`;
6. created a *launchd* file `~/Library/LaunchAgents/de.rho62.environment.plist`, which provides environment variables for GUI applications, inspired by this articles:
  - [Launch shell script on login in Mac OS \(OS X\)](#);
  - [MacOS Environment Variables](#);
  - [Creating Launch Daemons and Agents](#);
7. installed some drivers and additional base software:
  - *DELL* driver and *Color Management Software* for U2723QE computer monitor;
  - *EPSON* software for printer [Epson Expression Premium XP-7100](#):
    - printer driver (v13.26),
    - Epson Scan 2 (v6.7.71),
    - Epson Photo + (v4.02.0)
  - *Apple* *xcode* developer CLI software (by simply entering `git` in terminal);
  - *Nextcloud* [Desktop Client for macOS 12+](#); <sup>1)</sup>
  - [Mazda Toolbox](#);

8. enabled *CUPS* web interface:

```
cupscctl WebInterface=yes
```

;

9. [Homebrew](#) installed as packet manager, using terminal command:

```
/bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

10. *GnuPG* installed, according to this [article](#):

```
brew install gnupg pinentry-mac
echo "pinentry-program $(which pinentry-mac)" >> ~/.gnupg/gpg-agent.conf
gpg-connect-agent reloadagent /bye
brew install gpg-suite
```

11. [Emacs Plus](#) installed to path `/opt/homebrew/opt/emacs-plus@28`

```
brew tap d12frosted/emacs-plus
brew install emacs-plus@28
sudo osascript -e 'tell application "Finder" to make alias file to
posix file "/opt/homebrew/opt/emacs-plus@28/Emacs.app" at posix file
"/Applications" with properties {name:"Emacs.app"}'
```

then:

- setup modifier keys (see *Emacs* Wiki of [Xah Lee](#)): option → Meta, command → Super, function → Hyper;
- created an application `EmacsClient.app` based on a shell script, using the macOS *Automator*;

```
/opt/homebrew/bin/emacsclient -n -a /opt/homebrew/bin/emacs $@
open -a Emacs
```

- added some other useful programs:
  - [macism](#): `brew tap laishulu/homebrew; brew install macism;`
  - [aspell](#): `brew install aspell;`
  - [exiftool](#): `brew install exiftool;`
- removed some (partially) clashing keyboard shortcuts from macOS:
  - F11: show desktop;
  - c-space: input method selector;
  - c-left, c-right, c-up: *Mission Control*;
  - c-down: program windows;

12. *LaTeX* stuff installed:<sup>2)</sup>

- [MacTeX](#) (a *TeXlive* distribution), but w/o GUI applications:

```
brew install --cask mactex-no-gui
# later: brew upgrade mactex-no-gui
sudo tlmgr update --self && sudo tlmgr update --all
```

```
sudo tlmgr install algorithms && sudo texhash
```

See the following paths for interesting files:

- /Library/TeX
- /usr/local/texlive
- /etc/paths.d/TeX
- /etc/manpaths.d/TeX
- [BibDesk](#):<sup>3)</sup> `brew install --cask bibdesk;`

### 13. LyX for Mac OS X installed:<sup>4)</sup>

```
brew install --cask lyx
ln -s $PROJECTS/texmf/lyx/layouts "$HOME/Library/Application
Support/LyX-2.4/layouts"
ln -s $PROJECTS/texmf/lyx/templates "$HOME/Library/Application
Support/LyX-2.4/templates/MyTemplates"
```

then:

- `update "~/Library/Application Support/LyX-2.4/preferences";`
- adopted PATH prefix (to zero length currently) in preferences;
- installed standalone version of *fig2dev*, using `brew install fig2dev;`<sup>5)</sup>

### 14. Finally in terminal update the (persistent) launchd path for GUI apps:

```
sudo launchctl config user path
"/opt/homebrew/bin:/opt/homebrew/sbin:/usr/local/bin:/System/Cryptexes/
App/usr/bin:/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/MacGPG2/bin:/Libra
ry/TeX/texbin:/Users/<user>/Applications"
# or simply
sudo launchctl config user path $PATH
# verify with:
launchctl getenv PATH
```



After doing so also *Aspell* works (e.g. from within *Emacs*).

<sup>1)</sup> Restored old configuration settings directly to file `~/Library/Preferences/Nextcloud`.

<sup>2)</sup> `xdvi` does not work because main X11 library `libXawt` is missing currently.

<sup>3)</sup> Provides *Spotlight* support!

<sup>4)</sup> *Spotlight* support seems to be out-of-the-box.

<sup>5)</sup> *fig2dev* is normally part of *Xfig* which requires the X11 library.

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