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`, `TEXMFHOME`, `TEXINPUTS`, `BIBINPUTS`;
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+;[1)]
   - Mazda Toolbox;

8. enabled *CUPS* web interface:

```
cupsctl 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:[2)]
    - 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:[3] `brew install --cask bibdesk`;

13. LyX for Mac OS X installed:[4]

```
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`;[5]

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*).

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

2)
`xdvi` does not work because main *X11* library `libXawt` is missing currently.

3)
Provides *Spotlight* support!

4)
Spotlight support seems to be out-of-the-box.

5)
fig2dev is normally part of *Xfig* which requires the *X11* library.

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