

# TeX Live

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From Termux Wiki

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It is possible to either install a full texlive installation with `apt install texlive-full` (available from the science-packages (<https://github.com/termux/science-package>) or to customize which packages to install by installing `texlive-installer` (available from unstable-packages (<https://github.com/termux/unstable-packages>)). The latter lets you run `termux-install-tl`, a wrapper around texlive's own `install-tl` script.

Here is a comparison of the two options:

Property\package	texlive-full	texlive-installer
Considered stable	yes	no †
Incremental updates	no	yes
Customization possible	no	yes ‡
Package size	depends ‡	depends

† There is a risk that updates upstream break our texlive since `install-tl` and `tlmgr` from upstream are used, and termux is not officially supported

‡ You cannot customize everything, changing installation path or trying to use binaries from upstream will break texlive

‡ It is possible to `apt install texlive` (and possibly other of the available subpackages) rather than `apt install texlive-full`. `texlive` is enough to compile simple PDFs, but most non-essential packages cannot be used

# TeX Live Package Management

If you install texlive through texlive-installer, you will get the package manager tlmgr. tlmgr is not available for texlive-full

The most up-to-date version of tlmgr documentation (updated nightly from the development sources) is available at <http://tug.org/texlive/tlmgr.html> (<http://tug.org/texlive/tlmgr.html>), along with procedures for updating tlmgr itself and information about test versions. A Texlive installation can be customized and managed at any level.

## tlmgr info

- `tlmgr search --global --file search.sty` will list available packages containing the file `search.sty`.
- `tlmgr info collections` will list installed and available collections. Collections usually means large downloading!
- `tlmgr info schemes` will list installed and available schemes. Schemes means downloading even more and larger amazing tex goodies!

## tlmgr install

Single packages can be installed with

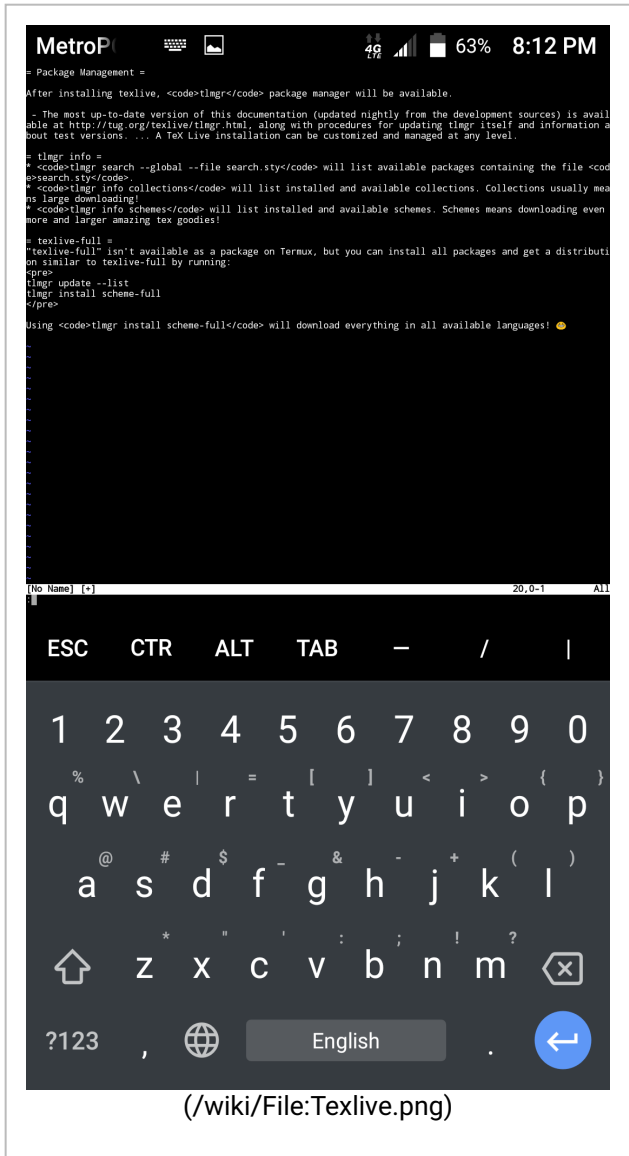
```
tlmgr install <package>
```

## tlmgr update

Updating all install  
texlive packages  
can be done

```
tlmgr update --all
```

## Details on how



## texlive-installer works

texlive-installer installs two scripts that can be run,  
termux-install-tl and termux-patch-texlive.

`termux-install-tl` runs a patched variant (some paths needs to be changed) of upstream's `install-tl` script with an argument ( `-custom-bin` ) pointing to the binaries that have been installed with `texlive-bin` . If you want to run the installer with other arguments, for example `-repository` pointing to a local mirror, you can run `termux-install-tl -repository path/to/mirror` . You are then shown a text gui where you have the opportunity to choose which schemes you want to install. After all texlive packages have been downloaded and installed `termux-patch-texlive` is run to fix known problems, mostly to change paths ( `/tmp` -> `$PREFIX/tmp` and similar).

If you at a later point run `tlmgr update` and end up with a none-working texlive you might be able to fix the problems by running `termux-patch-texlive` .

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