

T_EX: Installation & Setup

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1 Installation

1.1 T_EX Engine

1.1.1 MiKTeX

You can get the latest MiKTeX software at <https://miktex.org/download>. MiKTeX available for Windows, MacOS, and Linux. Just follow the instruction (with picture guide) on how to install MiKTeX at <https://miktex.org/howto/install-miktex>.

Sometimes, failed installation occurs. Try to run the installer using administrator by right click on the installer and select '**Run as Administrator**'. Try to disable antivirus and firewall. If all of these steps failed. You might want to install other distribution, TeX Live.

Finally, setup your newly installed MiKTeX via [MiKTeX console](#). Use **MikTeX Console** to install updates and packages. Follow the guide at <https://miktex.org/howto/miktex-console>. Please set the automatic package installation to

Always install missing packages on-the-fly.

Small scheme TeX Live and Basic MacTeX doesn't have this kind of features thus require intervention from user to manually install missing packages.

1.1.2 TeX Live

Windows and Unix user can download TeX Live on [TUG website](#). For windows user, install only if you failed to install using MiKTeX. The steps are as follows;

1. Run '*install-tl-windows.exe*'
2. Select '*unpack only*'
3. Right click on '*install-tl-advanced.bat*', and select '*Run as Administrator*'.
4. Wait some times until installation windows appear.
5. Change the '*Selected scheme*' to either '*medium scheme*' (1.5GB) or '*small scheme*' (500MB). You can reduce the size by '*untick*' unnecessary item such as languages in the '*Installation collections*'.
6. This video might help <https://www.youtube.com/watch?v=rUz5kRYP9w4>

1.1.3 MacTeX

The Macbook user can opt to install [MacTeX](#) instead. The complete version of MacTeX (over 2 gigabytes of material) installs TeXShop, a GUI front end to TeX, TeX Live 2019, a GUI front end to manage L^AT_EX core and packages, and other important materials. The basic version of MacTeX is lightweight (around 110 megabytes) but require user to install GUI for TeX Live 2019 separately. Follow the link to install the GUI for [TeX Live 2019](#). It is recommended to install recommended fonts if you choose the lightweight version of MacTeX.

```
sudo tlmgr install collection-fontsrecommended
```

1.2 GUI: TeXstudio

Second, you need the [TeXstudio](#) software, a GUI front end to TeX to start writing your documents.

2 Install packages using terminal

For the MacTeX/TeX Live user, the easiest way to install packages is via terminal. Copy and paste the script below to install the required packages.

```
sudo tlmgr install platex-tools tocbibind tocloft rotfloat acronym
bigfoot xstring apacite multibib babel-malay logreq algorithms
algorithmicx IEEEtran silence geometry mathptmx amsmath amssymb
textcomp indentfirst natbib graphicx float subfig tabulary booktabs
multirow enumitem lipsum
```

Type your password and sit back, relax, have a cup of a coffee.

2.1 Testing Package Installation

Open and run the `fypcgsthesis.tex` using TeXstudio. Click on the **double arrow** or press **F5** to **Build & View** pdf file.

First run might takes a while as MiKTeX is trying to get all the packages from the server. Please be patient. Make sure you **have an internet connection**.

For TeX Live user who installed the basic version, if you encounter errors, please read the log message about missing packages. Install the missing packages using TeX Live GUI or terminal/command window.

If you manage to get **fypcgsthesis.pdf** file, you are ready to go!.