

# MakeFile for L<sup>A</sup>T<sub>E</sub>X

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## 1 Puer makefile

don't use `latexmk` for autocompile, just use `xelatex`, `pdflatex`, `lualatex`, which means that reference will be compile twice to show correctly.

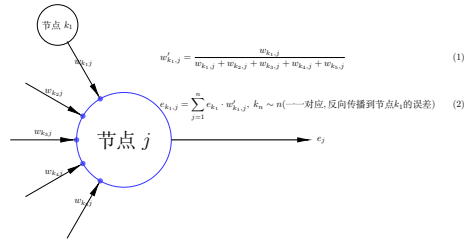
### 1.1 Why makefile

To illustrated a situation you need to use make file, there is an example:

*there is a picture in your file need to be compile first, after the picture is created, then you can compile your .tex file to import the picture create just before.*

There is only a file `pic1.tex`, to include it in `main.pdf`:

- compile `pic1.tex` to `pic1.pdf`
- then compile `main.tex` to import `pic1.pdf`



**Additionally:** tool `make` will check if your file has changed, if so it will recompile it, if not, this file will remain unchanged, which means: you can achieve people's "part compile" to speed up!

## 2 makefile & latexmk

### 2.1 latexmk install

go to CTAN <https://www.ctan.org/pkg/latexmk/>, downloading source file, see file `INSTALL` to install `latexmk` on your system.

## 2.2 use latexmk with makefile

`latexmk` to make your compile more fluent, but to my own prescription: `latexmk` is a burden, when you grab the compile process of  $\text{\TeX}$ .

to make this article more compatible, i will ref several point when using  $\text{\LaTeX}$  MK.