

X₃LaTeX Templates

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1 INTRODUCTION

This document template was primarily prepared so that Thai scripts (อักษรไทย) may be used inside X₃LaTeX document. Various typographical styles are adjusted to personal taste. This work is an accumulation of almost 10 years of battle experience with LaTeX ecosystems.

You may freely adapt this template to suit your needs. It is available freely under MIT License. Feel free to hit me with questions if you need any help.

Skip to the next section if you are ready.

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2 TEMPLATE FEATURES

This LaTeX document template has the following features.

1. Supports text in both Latin and Thai scripts. For example,

สามารถใช้งานภาษาไทยได้ตามปกติ

The revised *Sarabun*¹ font is used as the default font.

2. Math equations also uses the same font by default, e.g.,

$$x^2 + y^2 + z^2 = 1 \quad (3\text{-Dimensional Sphere})$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (\text{Quadratic Solution})$$

3. Supports sidenote \sidenote{As shown here and above.}²

Sidenotes are ragged right due to the command \adjustsidenote{\textcolor{blue}{raggedright}} at the document preamble (see source).

¹ The font was designed by Suppakit Chalermklarp and revised by Cadson Demak under Google 13+1 Thai Fonts Project.

² As shown here and above.

If you are not going to use `\sidenote` then you may want to re-adjust page margins using `geometry` package at the document preamble.

4. Supports simple commands to switch between eight font weights on-the-fly.

<code>\thinfont</code>	ฟอนต์ชุด Sarabun-Thin
<code>\lightfont</code>	ฟอนต์ชุด Sarabun-ExtraLight
<code>\normalfont</code>	ฟอนต์ชุด Sarabun-Light
<code>\heavyfont</code>	ฟอนต์ชุด Sarabun-Regular
<code>\thinfont\bfseries</code>	ฟอนต์ชุด Sarabun-Medium
<code>\lightfont\bfseries</code>	ฟอนต์ชุด Sarabun-SemiBold
<code>\normalfont\bfseries</code>	ฟอนต์ชุด Sarabun-Bold
<code>\heavyfont\bfseries</code>	ฟอนต์ชุด Sarabun-ExtralBold

All fonts shown above also deploy `\itshape` variants.

5. A few text decorations such as text pills: **LABEL PILL** **ALT LABEL PILL**

```
\labelpill{LABEL PILL} \labelpillalt{ALT LABEL PILL}
```

Text highlighting: Red. Green. Blue. Yellow. And Custom.

```
\rhl{Red.} \ghl{Green.} \bhl{Blue.} \yhl{Yellow.}
\hlt[black!15!white]{And Custom.}
```

Text highlighting also works inside math equations.

$$x^2 + y^2 = z^2 \quad (\text{Pythagorean Theorem})$$

6. A few header decorations such as `\secbannerpre` and `\secbannerpost`

NEW SECTION

For this template, it was turned on due to the command `\bannerinsec` at the document preamble.

7. Special hair space character `\hrsp` which does make huge difference between

Hyphenated-text	vs	Hyphenated-text
10 – 99 or 10–99	vs	10–99
ต่างๆ นานา	vs	ต่างๆนานา

8. Free Font Awesome 5 can be included like so: `\faShower = 🚿`.

To use the pro version of the font (assume that it is installed in the font directory of the local machine), change the following lines in `tenth.sty`:

```
% \RequirePackage[fixed]{fontawesome5}
\RequirePackage[pro, fixed]{fontawesome5}
```

9. LETTERSPACING may be added with the following command:

```
{\lettersp[5] Hello} % Turn on letterspacing with value 5
{\lettersp Hello} % Default letterspacing with value 5
```

The special command `\duration` can be used to typeset time duration. For example, `\duration{FEB 2018 -- JAN 2019}` would produce “FEB 2018 – JAN 2019”.

10. Page header can be customized by redefining `\pageheader` command. For example, to get the page header you see on this page, put the following code in document preamble:

```
\renewrobustcmd{\pageheader}{\XeLaTeX{} template}
```

11. As you might have seen earlier, source code may be included through `lstlisting` package. This template pre-defines color palette for source code highlightings (see source).

```
1  import functools
2  import operator
3  from typing import Iterable, TypeVar
4
5  T = TypeVar['T']
6
7
8  def product(values: Iterable[T]) → T:
9      """
10     Compute the product of all given values.
11     """
12     return functools.reduce(operator.mul, values)
```

Notice that FiraCode font is used, with ligatures enabled (such as ‘->’ being substituted by ‘→’).

12. Thai enumeration counters are supported by turning on `\redefinethaicounters` in the document preamble.

Then set the `label` option of the `enumerate` to something like `label={\thaialphs*}.` or `label={\thainum*}.`

For example, here is the **list of all known elements in the periodic table**.

ก. Hydrogen	ข. Scandium	ค. Niobium
ข. Helium	น. Titanium	กค. Molybdenum
ค. Lithium	บ. Vanadium	กช. Technetium
ง. Beryllium	ป. Chromium	กค. Ruthenium
จ. Boron	ผ. Manganese	กง. Rhodium
ฉ. Carbon	ฝ. Iron	กจ. Palladium
ช. Nitrogen	พ. Cobalt	กฉ. Silver
ซ. Oxygen	ฟ. Nickel	กช. Cadmium
ณ. Fluorine	ภ. Copper	กช. Indium
ญ. Neon	ม. Zinc	กณ. Tin
ฎ. Sodium	ย. Gallium	กญ. Antimony
ฏ. Magnesium	ร. Germanium	กฐ. Tellurium
ฐ. Aluminum	ล. Arsenic	กฏ. Iodine
ท. Silicon	ว. Selenium	กฐ. Xenon
ฒ. Phosphorus	ศ. Bromine	กท. Cesium
ณ. Sulfur	ช. Krypton	กณ. Barium
ด. Chlorine	ส. Rubidium	กณ. Lanthanum
ต. Argon	ท. Strontium	กค. Cerium
ถ. Potassium	ฬ. Yttrium	กค. Praseodymium
ท. Calcium	อ. Zirconium	กถ. Neodymium

กธ. Promethium	กฮ. Thallium	ขท. Mendelevium
กน. Samarium	ขก. Lead	ขธ. Nobelium
กบ. Europium	ขข. Bismuth	خن. Lawrencium
กป. Gadolinium	ขค. Polonium	خب. Rutherfordium
กผ. Terbium	ขง. Astatine	ขป. Dubnium
กฝ. Dysprosium	ขจ. Radon	ขผ. Seaborgium
กพ. Holmium	ขฉ. Francium	ขฝ. Bohrium
กฟ. Erbium	ขช. Radium	ขพ. Hassium
กก. Thulium	ขซ. Actinium	ขฟ. Meitnerium
กม. Ytterbium	ขณ. Thorium	ขภ. Darmstadtium
กย. Lutetium	ชญ. Protactinium	ขม. Roentgenium
กร. Hafnium	ขญ. Uranium	ขย. Copernicium
กฉ. Tantalum	ขฎ. Neptunium	ขร. Nihonium
กว. Tungsten	ขฐ. Plutonium	ขล. Flerovium
กศ. Rhenium	ขท. Americium	ขว. Moscovium
กษ. Osmium	ขณ. Curium	ขศ. Livermorium
กส. Iridium	ขณ. Berkelium	ขษ. Tennessine
กห. Platinum	ขด. Californium	ขส. Oganesson
กฬ. Gold	ขต. Einsteinium	
กอ. Mercury	ขถ. Fermium	

List of Thai months in a year.

๑. มกราคม
๒. กุมภาพันธ์
๓. มีนาคม
๔. เมษายน
๕. พฤษภาคม
๖. มิถุนายน
๗. กรกฎาคม
๘. สิงหาคม
๙. กันยายน
๑๐. ตุลาคม
๑๑. พฤศจิกายน
๑๒. ธันวาคม

3 LOREM IPSUM

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