

# taiga

Toby Lam

February 2021

## 1 Introduction

A personal custom LaTeX Package that contains various other packages for more convenient use.

Below is an explanation of the code written in taiga.sty and possible use cases for it.

Disclaimer: This package was intended for personal use and this "manual" is far from complete / ideal.

## 2 Packages required

### 2.1 ifthen

So that I could use some better if then code for package options implementation.  
May be reductant

### 2.2 [T1] fontenc, [utf8] inputenc

Just standard font encoding.

inputenc allows the user to input accented characters directly from the keyboard;

fontenc is oriented to output, that is, what fonts to use for printing characters. T1 supports accented characters used by the most widespread European languages

### 2.3 Graphicx

Put images, i.e.

```
\includegraphics[width=\textwidth]{universe}
```

### 2.4 [hyphens] url

So that hyphens could wrap around urls properly. Must be put before hyperref.

## 2.5 hyperref

Produce hypertext links in the document, i.e.

```
\href{google.com}{Google}
```

## 2.6 multicol

Multiple columns, i.e.

```
\begin{multicols}{2}[ %Text with 1 column]
%Text to be seperated automatically by multicol
\end{multicols}
```

## 2.7 lipsum

Sample text, i.e.

```
\lipsum[2-4]
```

## 2.8 todonotes

To add to do notes

```
\todo{Add details}
```

## 2.9 textcomp

Provides extra symbols, i.e.

```
\textrightarrow, \textcelsius
```

## 2.10 caption

Captions in tables.

## 2.11 gensymb

Provides generic commands which work on both text / math mode, i.e.

```
\degree, \celsius, \perthousand, \micro and \ohm
```

## 2.12 booktabs

Add "rules" to tables

```
\begin{tabular}{@{}llr@{}}
\toprule
\addlinespace[0.1em]
\midrule
\bottomrule
\end{tabular}
```

## 2.13 float

For tables so that the location is precise.

```
\begin{table} [H]
```

## 2.14 microtype

Subliminal refinements towards typographical perfection.

Let's just leave it at that...

## 2.15 siunitx

Adds support to SI units

```
\si{kg.m.s^{-1}} or \si{\kilogram\metre\per\second}
\num{.3e45}
```

## 2.16 times

Times font. I just really like it.

# 3 Options

## 3.1 maths

Uses tikz, pgf and pgfplots to plot graphs. Below is required

```
pgfplotsset{compat=1.15}
```

Uses all of ams packages plus mathtools which seems to makes things nicer

The below means that the Y counter restarts every X.

```
newtheorem{Y}{Y}[X]
```

Here's how to use the environments for  $Y \in \{\text{theorem, lemma, definition}\}$

```
\begin{Y}[Name of the thing]
\end{Y}
```

There are also some nice shortcuts,

```
\N: \mathbb{N}
\Z: \mathbb{Z}
\Q: \mathbb{Q}
\R: \mathbb{R}
```

### 3.2 chemistry

mcchem for displaying chemical formulae.  
chemfig and tikz for drawing molecular structures.

### 3.3 indentfirst

So that every paragraph is indented.

### 3.4 flux

Puts a yellow tint over the entire document.

### 3.5 bibliography

To use, create a bibliography.bib file and edit it using JabRef Site stuff by using

```
\cite{}
```

At the end of the document, add

```
\bibliography{bibliography}
```

### 3.6 legacy

Many of my old documents use

```
\ce{->}
```

So I included mcchem.

### 3.7 a4paper

Uses the package geometry to make the margins more suited for a4.

### 3.8 noindent

No indent for all paragraphs.

### **3.9 tocnosections**

Only parts and chapters would be displayed in table of content.