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# 1 Introduction to MD2PDF-Batch Project

This project aims to make the workflow to write a batch of manuscripts / reports with a same template easier.

- Write in markdowns, get papers. Help maintaining a clean paper repository.
- It will make a latex project easy to read:
  - separate templates and contents
  - itemize, emph, headers... expressed in Markdown!
  - future work: easier figures / subfigures, and tables.
- Compatibility to latex:
  - You can use any latex environments in our markdown file.
- Support batch workflow easier by input arguments in a list:
  - You can specify input arguments in the configuration file, either applied to all, or to a single document. These arguments are passed into your LaTeX compiler — this gives flexibility in the batch process!

## 1.1 Workflow description

1. Prepare template file in src/. It should always only include a temp.tex file in the document:

```
\begin{document}
\input{temp}
\end{document}
```

- For any arguments you want to specify in configuration file rather than fixed in template, just write \SomeName inside template, and specify Somename in configuration list.
- 2. Specify your configuration list in list.yml, within Yaml format.
  - For arguments that apply globally (to all sub-documents), specify it in default object.
  - For arguments that apply to a single document, specify it in the document id object, e.g. hw0.
  - You can add a cover page by specifying *coverpage* argument.
- 3. Put all your source files in src/. The filename should be always DocID.md for system to recognize, e.g. hw0.md.

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My Name (myemail@xxx.xxx)

- 4. Run python configure.py to compile a Makefile.
- 5. Run make all to make all documents into build directory, or make a single document regarding to the ID in list.yml, e.g. make hw0 to make build/hw0.pdf

## 1.2 Dependencies

- pandoc
- makefile
- a latex compiler

## 2 Source File Format

### 2.1 Getting Started

Be sure to look into this markdown file to learn use cases of markdown.

Paragraphs are split by an empty line.

Section headers can be specified:

- section: ==== or #
- subsection: --- or ##
- subsubsection: ###

A good thing compared to IATeXis that you can directly use quotation marks: ": "Hello world". Anything that begins with a \ will have identical function with in LaTeX.

Other useful formats:

- **Strong**: \*\*Strong\*\*
- *Emphasis*: \*Emphasis\*
- TEXTSC: \textsc{TextSc}
- Comment: <!-- Something you want to comment -->

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#### 2.1.1 A sample unordered list

Be sure to have 1 empty line before the list.

- Fruit
  - Apple (Be sure to use 4 spaces for each indent!!!)
  - Orange (either \* or − is OK)
  - Strawberry
- People
  - Alice
  - Barack
  - Cathy

#### 2.1.2 A Sample ordered list

- 1. Fruit
  - (a) Apple (Be sure to use 4 spaces for each indent!!!)
  - (b) Orange
  - (c) Strawberry
- 2. People
  - (a) Alice (#. also gives ordered list. This is useful when you do not include *enumerate* package.)
  - (b) Barack
  - (c) Cathy
- 3. OtherPeople
  - 1. Xlice
  - 2. Yarack
  - 3. Zathy

#### 2.2 Environments

Any LATEX environment is supported. You can directly write it in MarkDown.

e.g. \begin{someEnvironment}...\end{someEnvironment}

Some header goes here

Table 1: Some table

Name	Some number	Some other number
Alice	5.5307	5.5576
Bob	5.5305	4.8091
Cathy	5.5284	15.8686

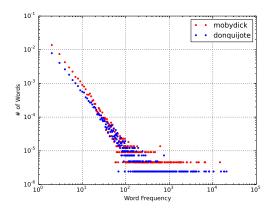


Figure 1: Sample Figure

#### 2.2.1 Tabular

Just use latex environment  $\left\{ lr \right\}$  ...  $\left\{ dr \right\}$  and you will get the tabular.

(a) Number of nodes in the network	7115
(b) Number of nodes with a self-edge	0
(c) Number of directed edges in the network	103689

#### 2.2.2 Tables and Figures

You have to specify and refer to tables and figures as you do in LATEX. You can refer to Table 1, Figure 1: Table \ref{table:1}, Figure \ref{fig:1}.

You can use and refer to subfigures like following: Figure 2(a): Figure  $\row$  Secure to include have specific packages.

#### 2.2.3 Code Blocks with specific language

#!/usr/bin/python
print 'Hello\_World!'

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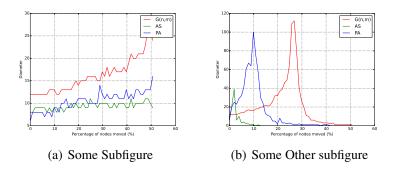


Figure 2: Sample figure with subfigures

```
lan = 'Python'
print 'This_is_a_sample_code_block_in_%s' % lan!
```

You can use environment \begin{lstlisting} [language=python]..., and craft your python/C++/Matlab code blocks...

# 2.3 Bibliography

We believe that it is not common that you include bibs in this batch project.

Be aware that our generated Makefile does not include a bibtex command. You can try to modify *configure.py* if you want. Note that the proper process should be *pdflatex*, *bibtex*, *then pdflatex twice*.

If you really want this, please send me a note. Actually we will have bib support in the coming non-batch version of our workflow.

# Acknoledgement

Big thanks to Winnie Liu, for coming out the ideas and initial efforts! Thanks for Scott Cheng for pushing this project for release.