How to Setup Latex + Vim Mode with Mac OS + Atom

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Table des matières

1	Motivation	4
	Design2.1 Analysis of Needs2.2 Solution	4 4 5
_	Result 3.1 CodeBloc	5

T • ,	C		1
List	Ωt	source	codes
	$\mathbf{v}_{\mathbf{L}}$	DOGLOG	

ist	of source codes	
1	Some Java Code	6

1 Motivation

Latex has been long time used as a powerful tool scientific, I recently used it as a tool for my Annuel Project Report. But as we all know, it is not a simple one like markdown, it demands always a lot of configuration before we can start the real work.

Also, when we read a README.md in Github, it seems like the Markdown corresponds better our needs. But if we consider further, markdown language, it highly simplified from the Latex and will not have a good structure, especially when the article is long, and it lack of functionalities layout if we look at the conversion to PDF.

In the other hand, the Latex, has all the functionalities, but, lack of simplicity and can not adapt to the needs of Web support, as the case of Github - readme.md.

What I want to do is to simplify the operation of Latex, and use the Markdown language as the maker of Table of Contents. Which is to say, the markdown should always be bref and efficient, while all the complexities appear in the pdf constructed by Latex.

In order to do that, we need a powerful IDE with which we can simplify the works on Latex, but it should be light. In the ideal assumption this IDE should support the Vim mode.

Why we don't use directly vim?

In my opinion, the vim is good for system maintain but not alway good to program. I don't want to put anything in the design of vim, it is like Mysophobia for VIM, but actually, Yes I am.

2 Design

2.1 Analysis of Needs

- * IDE Light weight
- * Approximately Zero Preparation.
- * Vim Mode Supported
- * Bundle Snippets Supported (To simplify the operation like Emmet-Ancient Zen-Coding)
- * Latex Markdown conversion possible
- * Latex/Markdown Preview Possible
- * French and English Spelling Check supported
- * In latex, insert code bloc possible

2.2 Solution

IDE	ATOM - For the more friendly user interface,
	more plug-ins than sublime text
Preparation simplifying	Making template
	copy it each time
Vim Mode	Plug-in : Vim-mode-plus
VIIII Mode	Do not have all the function but sufficient
Snippets	Snippets plug-in configuration
	using language-latex plug-in
	Of cause we should learn how to define our own
	very simple
Latex Markdown Conversion	Pandoc, that's all!
Preview	package : Latex
1 Teview	for md: markdown preview plus
Spelling Check	Spell Check,
	should config to examine text.tex.latex
CodeBloc	using minted in Latex

3 Result

Some small problems but basically ${f satisfied}$

3.1 CodeBloc

```
package com.xicun;
3
     * Created by xicunhan on 21/01/2017.
4
    public class Chocolate003 {
        public static int breakChocolate(int n, int m) {
             if (n<1 \mid | m<1){
                 return 0;
             }else if (n==1 \&\& m==1){
10
                 return 0;
11
             } else{
                 return m*n-1;
             }
14
        }
15
16
17
        public static int breakChocolateSolution(int n, int m){
18
             //best practice:
             return Math.max(n*m-1,0);
20
        }
    }
```

Listing 1: Some Java Code