Build up Latex in Atom: packages and tips

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1 Introduction

At the very beginning, it takes me a while to build up the collective IDE for `Python, R , LaTex` in Atom. This document records the procedure to do this. I will collect the common problems any one might encounter when using Atom to write a paper or do a project with `Python, R` and `LaTex`.

2 Packages for LaTex in Atom

To build up IDE for LaTex in Atom, you need the following packages:

- `atom-latex`: type LaTex code and compile in Atom
- `language-latex`: syntax highlighting
- `latex-autcomplete`: LaTex code autocomplete
- `linter-spell-lates`: spell checking
- `pdf-view`: view pdf in Atom

3 Tips for LaTex in Atom

During setting up my LaTex environment in Atom, I had several main problems which annoyed me. The fist one is the spell-check does not work at the very beginning. To solve this problem, you need add the source file into the `Grammars` of `spell-check` package. To check your source file, follow those steps:

1. use `command-shift-p` to open the command window
2. Then type `Editor:Log Cursor Scope` there, your file source will show up
3. Copy the source format, such as `text.tex.latex`, paste it into `Grammars`

Warning: in order to make sure the spell-check works, you need make sure the file grammar you are using is 'LaTex'. Otherwise, the spell-check will not work.

To make the compiling clean and organized, you also need set the deleting file behaviors in preference part.

If you put repeated bib entry in your BiBtext file, there will be a compiling error.

Error: Paragraph ended before \BR@@bibitem was complete.\par

Solution: put \in front of % in your url links

Error: latex error code 12

Solution: bibliographystyle should use apalike or something

If you use different typing system, for example, in my case I used Chinese typing system to type some english words, then you will have the following errors: *Package inputenc Error: Unicode character* H (U+8).

Special characters: The following characters play a special role in LaTeX and are called "special printing characters", or simply "special characters":

$ % & _ { }\

Whenever you put one of these special characters into your file, you are doing something special. If you simply want the character to be printed just as any other letter, include a \ in front of the character. For example, \ $ will produce $ in your output. The exception to the rule is the \ itself because \\ has its own special meaning. A \ is produced by typing \ in your file.

You can use \phantom to hide some parts of latex

Always use apalike for bibliographystyle

4 Tips for Python in Atom

5 Tips for R in Atom