

AUCTeX Cheatsheet

Configuration

An example configuration with `use-package`.

```
(use-package auctex
  :defer t
  :config
  (setq TeX-auto-save t
        TeX-parse-self t
        reftex-plug-into-AUCTeX t)
  :hook (LaTeX-mode . reftex-mode))
```

Basic editing commands

- `C-c C-m` Insert macro
Inserts a macro, prompting for options.
- `C-c C-e` Insert environment
Inserts environment delimiters.
- `C-c]` Close environment
Insert closing delimiter for the current environment.
- `C-c C-s` Insert section
Insert section*, prompting for label.

- `C-c C-j` Insert item
Insert next element within `itemize`.
- `C-c ~` Math mode
Use ``` to type Greek - *e.g.* ``a` → α .

Font commands¹

- `C-c C-f C-i` italic.
- `C-c C-f C-b` bold.
- `C-c C-f C-t` typewriter.
- `C-c C-f C-t` emphasis.
- `C-c C-f C-d` delete current font.

Build commands

- `C-c C-c` Run command
Prompts for build command².
- `C-c C-a` Build all
Runs all commands, until exhausted (*e.g.* `bibtex` multiple times). Fastest way to build and view a document.

- `C-c C-r` Build region
Compiles the text in the active region plus the preamble. Outputs to `_region_.pdf` by default.
- `C-c `` Show build errors
Shows errors produced on build. Can use `next-error` and `previous-error` to navigate.

Reftex

- `C-c =` Table of context
Shows a table of context generated from the section's in the document.
- `C-c (` Insert a new label
The label is automatically generated based on context,
- `C-c)` Insert reference³
First, prompts for the type of reference macro (`<RET>` for `\ref`).
Second, prompts for prefix (`sec:`, `fig:`, `eq:`, *etc*).
Shows a candidate list of completions.
- `C-c [` Insert citation.
- `C-c &` Jump to reference.

¹These commands work with marked region, and inside math mode.

²Check out `Clean` command

³When cursor is over a reference, its context will show up in the echo area