

# TeXLab

Eric Förster      Patrick Förster

October 10, 2023

## 1 Introduction

TexLab is a cross-platform implementation of the Language Server Protocol for the  $\text{\LaTeX}$  typesetting system. It aims to produce high quality code completion results. The server may be used with any editor that implements the Language Server Protocol. It is written in Rust, a blazingly fast systems programming language.

## 2 Features

The language server implements most of the Language Server Protocol specification. In addition to that, it implements additional functionality like building and forward search.

## 3 Availability

TexLab is available on GitHub, various package managers and CTAN. Pre-compiled binaries are available on the GitHub Releases page. Some editor extensions are able to automatically download TexLab.

## 4 Installation

There are various ways to install TexLab:

- TexLab is included in some package managers like **brew**, **pacman** and **scoop**. Please refer to the badges in the README to see if your package manager includes TexLab.
- You can download a pre-compiled binary from our GitHub Releases page.
- Some extensions like the Visual Studio Code extension or **coc-texlab** can automatically download the server for you.

- You can download the sources from either GitHub or CTAN and compile the server with `cargo build --release`. The `texlab` binary can be found inside `target/release`.

## 5 Usage

### 5.1 Synopsis

`texlab [FLAGS] [OPTIONS]`

### 5.2 Flags

- `-h, --help` Prints help information
- `-q, --quiet` No output printed to stderr
- `-V, --version` Prints version information
- `-v, --verbosity` Increase message verbosity (`-vvvv` for max verbosity)

### 5.3 Options

- `--log-file <FILE>` Write the logging output to FILE