

# Collaborative LaTeX Writing using Git and Github Actions

Laurence Kedward

September 13, 2021

Repository available at: <https://github.com/LKedward/latex-github-collab>

## 1 Compiling Locally

### 1.1 Prerequisites

Compiling locally is possible with any LaTeX distribution; the github actions workflow running on Ubuntu 20.04 uses the following packages (all installable via ‘apt’):

#### Mandatory

- `texlive-latex-recommended`
- `texlive-latex-extra`

#### Optional

- `texlive-latex-utils` (for `texcount`)
- `rubber` (for using the `Makefile`)
- `perl` (for `texcount` and `latexdiff`)
- `latexdiff`

### 1.2 Makefile

For convenience a Makefile is included which relies on the [rubber](https://gitlab.com/latex-rubber/rubber/) LaTeX wrapper:

```
$ make                # generate paper.pdf
$ make clean          # cleanup
$ make spellcheck     # run codespell
$ make count          # run TexCount
$ make diff           # run latexdiff with master
```

## 2 License: MIT

The Makefile and Github actions workflow are licensed under the MIT license

MIT License

Copyright (c) 2021 Laurence Kedward

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.