

Overleaf Tutorial

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Key Points:

- Easy and fully loaded latex editor (Great way to learn latex if you've been thinking about trying it out)
- Student Pricing for Premium version
- Contains templates for lots of major journals
- Mendeley integration
- Google Drive-like live collaboration and commenting

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- 1. Getting Started in Overleaf
- 2. Mendeley, Zotero, Github.
- 3. Collaboration tools
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1 Getting Started

Why bother with latex?

Latex for equations and math heavy writing:

$$\frac{1}{n} \sin x = ?$$

$$\frac{1}{\cancel{n}} \sin x = ?$$

$$\text{six} = 6$$

Latex separates CONTENT from STYLE/FORMATTING. i.e. You deal with the content of your work without worrying about accidentally messing with the formatting of the document. That is adjusted when you convert the latex document into a pdf (Which overleaf does for you!).

Its also faster than word... no buggy scrolling through long documents with lots of figures!

If you are not familiar with Latex, this is a good place to start: https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes

1. Make Account
2. Find a template or start with a blank project.
3. customize the editor
4. upload figures and files to project to keep it all organized
5. write about your amazing science
6. Convert to pdf OR publish directly to a journal (I haven't tried this yet...)

2 Mendeley/Zotero and Github

Sync Mendeley or Zotero Library from the "UPLOAD" screen.

Syncing your mendeley or zotero libraries is a quick and easy way to manage citations in projects. If you add new references to your library, simply click on your .bib file and resync it to update the references.

How to use the citation: (Zou et al.,) insert Citation here (search function doesnt work that well)

reference a thing (Johns & Johns,

?

?; 00

, 00

)

There is also an option to sync the project of github and dropbox. You link your accounts in the menu bar in the top left corner of the editor.

42 **3 Collaboration Tools**

43 Add collaborators with the "share" button. It works similarly to google docs.

44 Once you add people to work with you can see their comments and live chat with
45 them. If you activate track changes (paid feature) then you can track , comment, and
46 accept/reject changes by other authors.

4 Things that don't always work that well

1. word count (but theres a work around)

Word Count

File: main.tex

Encoding: ascii

Sum count: 395

Words in text: 376

Words in headers: 18

Words outside text (captions, etc.): 0

Number of headers: 6

Number of floats/tables/figures: 0

Number of math inlines: 0

Number of math displayed: 1

Subcounts:

text+headers+captions (#headers/#floats/#inlines/#displayed)

44+2+0 (1/0/0/0) _top_

16+1+0 (1/0/0/0) Section: Contents

128+2+0 (1/0/0/1) Section: Getting Started

93+4+0 (1/0/0/0) Section: Mendeley/Zotero and Github

48+2+0 (1/0/0/0) Section: Collaboration Tools

47+7+0 (1/0/0/0) Section: Things that don't always work that well

2. Reference Searching

3. spell check is awful (I use grammarly by copying and pasting sections into grammarly)

4. not built for working offline (can work around if you have an offline Tex editor and sync up the changes but its a pain)

References

- Johns, W., Johns, W. E. (2019). Registration cost for AGU 2019 Fall conference .
 Airfare previously reimbursed on ER-0000088321 Manish Devana Comments (
 for travel advances please include breakdown for transportation , lodging , per
 diem and other costs):. , 2019.
- Zou, S., Lozier, S., Zenk, W., Bower, A., Johns, W. (2017). Observed and mod-
 eled pathways of the Iceland Scotland Overflow Water in the eastern North
 Atlantic. *Progress in Oceanography*. doi: 10.1016/j.pocean.2017.10.003