Git & GitHub

Including project management

Deepak Tanwar Bioinformatics Specialist and Trainer Swiss Institute of Bioinformatics University of Zurich

Email: deepak.tanwar@uzh.ch

Bluesky: http://dktanwar.bsky.social/

"FINAL".doc







FINAL.doc!

FINAL_rev.2.doc







FINAL_rev.6.COMMENTS.doc

FINAL_rev.8.comments5.



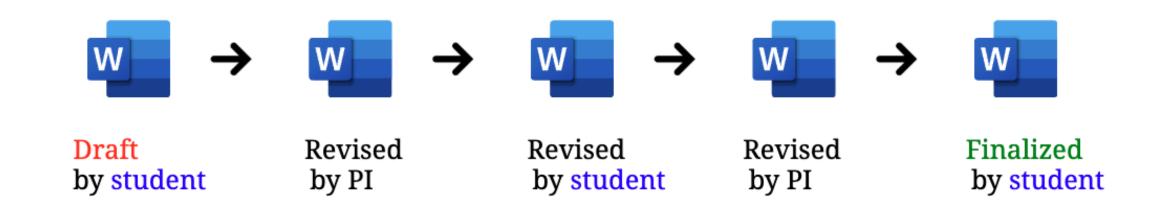




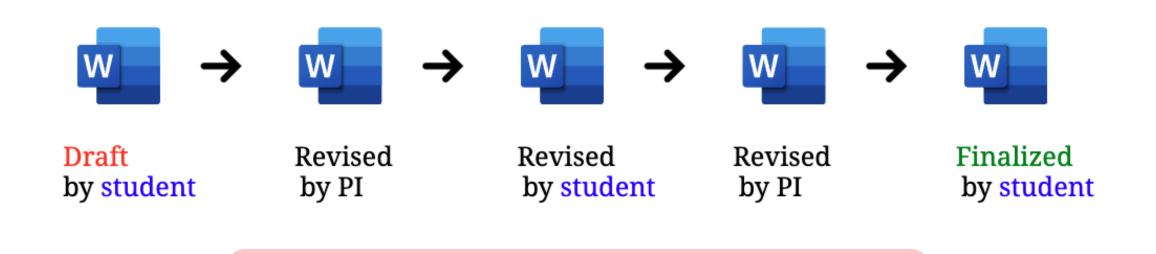
FINAL_rev.18.comments7. corrections9.MORE.30.doc

FINAL_rev.22.comments49. corrections.10.#@\$%WHYDID ICOMETOGRADSCHOOL????.doc

A general example of manuscript revision

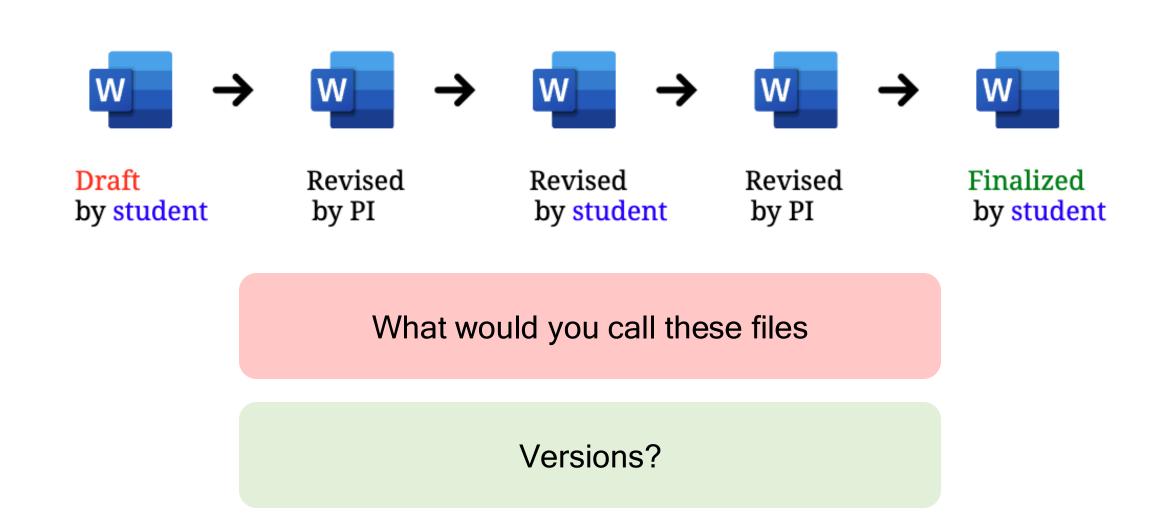


A general example of manuscript revision



What would you call these files

A general example of manuscript revision



How would you store different versions?

- manuscript_FA.docx
- manuscript_FA_LA.docx
- manuscript_FA_LA_FA.docx
- manuscript_FA_LA_FA_LA.docx
- manuscript_final.docx

- manuscript_20221001.docx
- manuscript_20221224.docx
- manuscript_20230107.docx
- manuscript_20230201.docx
- manuscript_final.docx

How would you store different versions?

- manuscript_FA.docx
- manuscript_FA_LA.docx
- manuscript_FA_LA_FA.docx
- manuscript_FA_LA_FA_LA.docx
- manuscript_final.docx

- manuscript_20221001.docx
- manuscript_20221224.docx
- manuscript_20230107.docx
- manuscript_20230201.docx
- manuscript_final.docx

Does anyone store files differently?

Version control

•	manu	ıscrii	pt.d	OCX
		400: 1	7 4	O O / \

manuscript.docx

manuscript.docx

manuscript.docx

manuscript.docx

manuscript.docx

manuscript.docx

manuscript.docx

"first draft"

"revision 1"

"revision 2"

"updated figures"

"removed table"

"line numbering"

"bioRxiv submission"

"published"

ac3eveta

a23eveta

cc3eveta

dc3edeta

zc9aveta

tc5eveta

yc8evata

zz33eeta

Version control

•	HI	le

- manuscript.docx

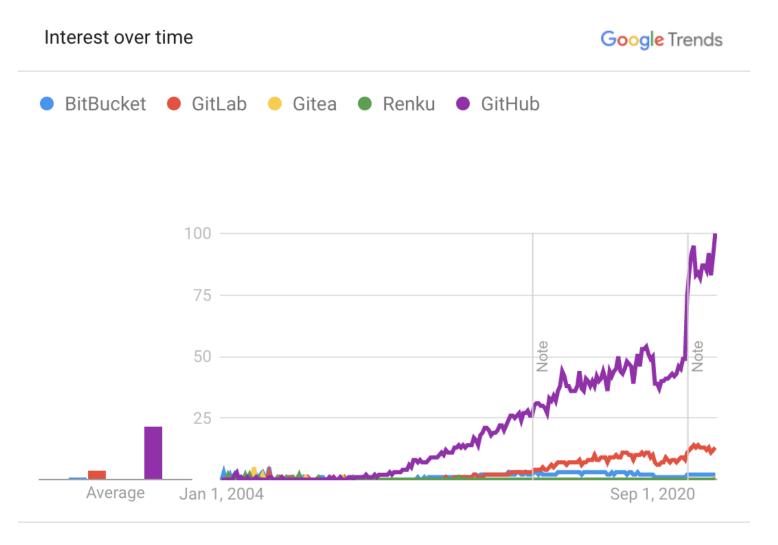
"commit message"

- "first draft"
- "revision 1"
- "revision 2"
- "updated figures"
- "removed table"
- "line numbering"
- "bioRxiv submission"
- "published"

version ID

- ac3eveta
- a23eveta
- cc3eveta
- dc3edeta
- zc9aveta
- tc5eveta
- yc8evata
- zz33eeta

How to host these versions?



Worldwide. 1/1/04 - 2/9/23. Web Search.

Terminologies

Organization shared account

Username your identity

Repository folder

Issues track bugs, request features, discuss

Branch separate line of development

Fork server-side copy of Repository

Pull request proposal to merge changes

- 1. Create a username on https://github.com
- 2. Check if you belong to any organization
- 3. Create a new public Repository with your username
- 4. Go to your home page: https://github.com/username
- 5. Take a screenshot

```
# This is heading 1
## This is heading 2
`code`
R code
```

. . .

```
**Bold** ___Bold___
```

```
**Italics** ___Italics___
```

```
~Strikeout~
```

> quote

This is a list

- Item 1
- Item 2
- Item 3

This is a numbered list

- 1. Item 1
- 2. Item 2
- 3. Item 3

```
This is a task list
```

- [] Item 1
- [] Item 2
- -[] Item 3

[this is a link](https://github.com)

Making a table

- 1. Create a file: README.md in your username Repository
- 2. Write your introduction into sections: Background, Research project, Affiliation, Education
- 3. In the Education section, make a table of your studies with university and year
- 4. Save your README.md file with a proper commit message
- 5. Go to your home page: https://github.com/username
- 6. Compare it with previously taken screenshot

- Create an issue in your repository: https://github.com/username/repository/issues/new
- 2. Give it a title: updating README file
- 3. Write a description: what else you would like to update in the README file
- 4. Assign it to yourself, add relevant labels and type

- 1. Got to https://github.com/DQBM-SIB/intro git github
- 2. Fork this repository under your username
- 3. Create a branch with your first name
- 4. In your named branch, edit README file of this repo and add your GitHub username
- 5. Create a pull request for original repository DQBM-SIB/intro_git_github in main branch

Thank you!