

I value building systems, telling stories with data, & helping people wherever I can.

science workshop

Outline:

- 1. My background
- 2. Automated version control
- 3. Setting up git
- 4. Creating a repository
- 5. Tracking changes
- 6. Collaborating
- 7. More resources

Version Control

What's hard about this method of tracking changes?

Multiple nearly identical versions

Difficult to identify the final (or original)

Collaboration is cumbersome

Learning objective: Understand benefits of version control and (high-level) how it works

"FINAL".doc







FINAL.doc!

FINAL_rev.2.doc

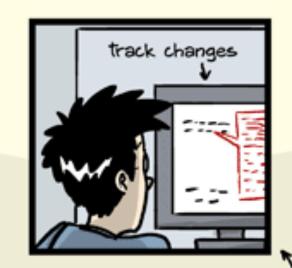






FINAL_rev.6.COMMENTS.doc

FINAL_rév.8.comments5. CORRECTIONS.doc



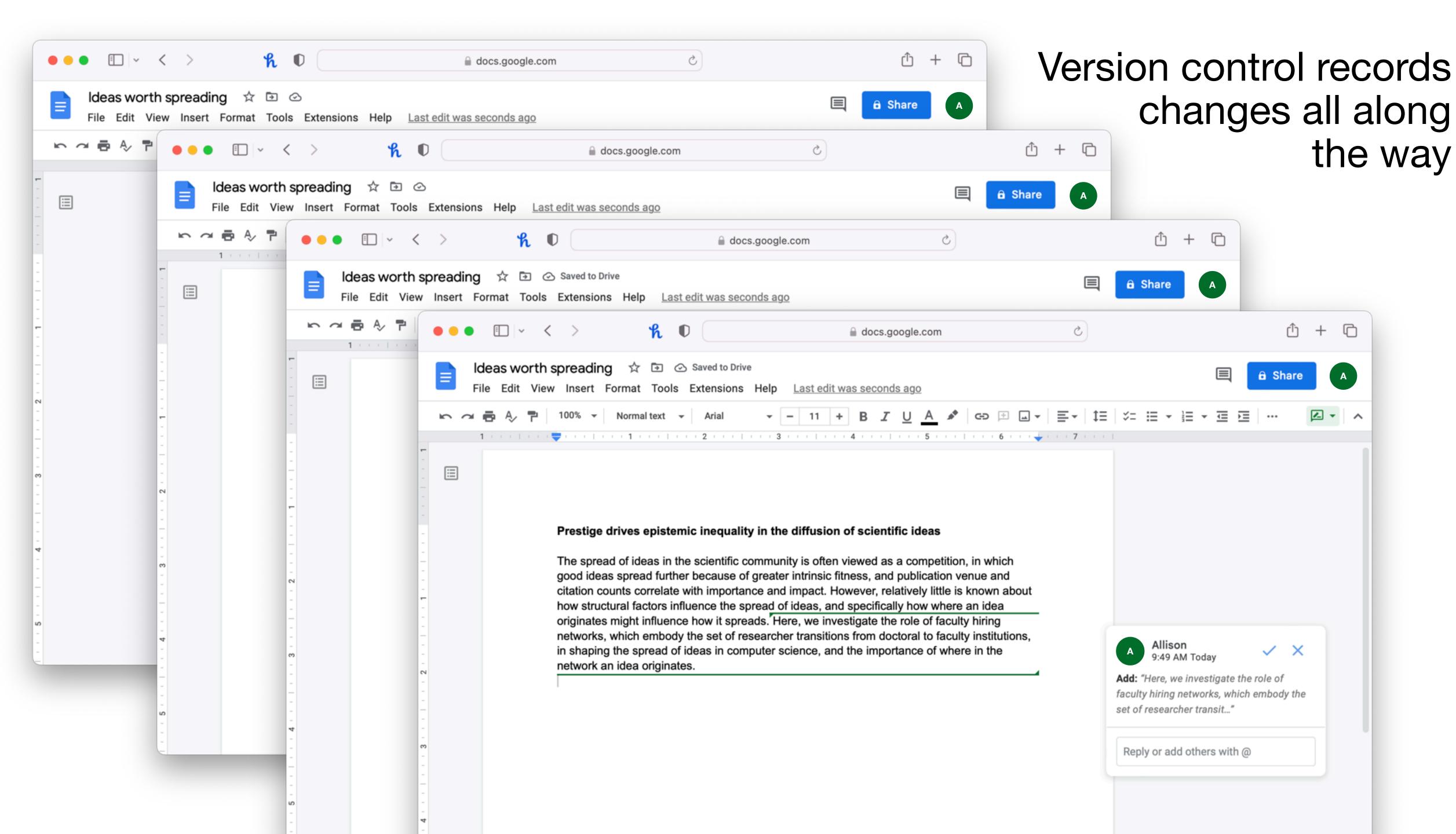


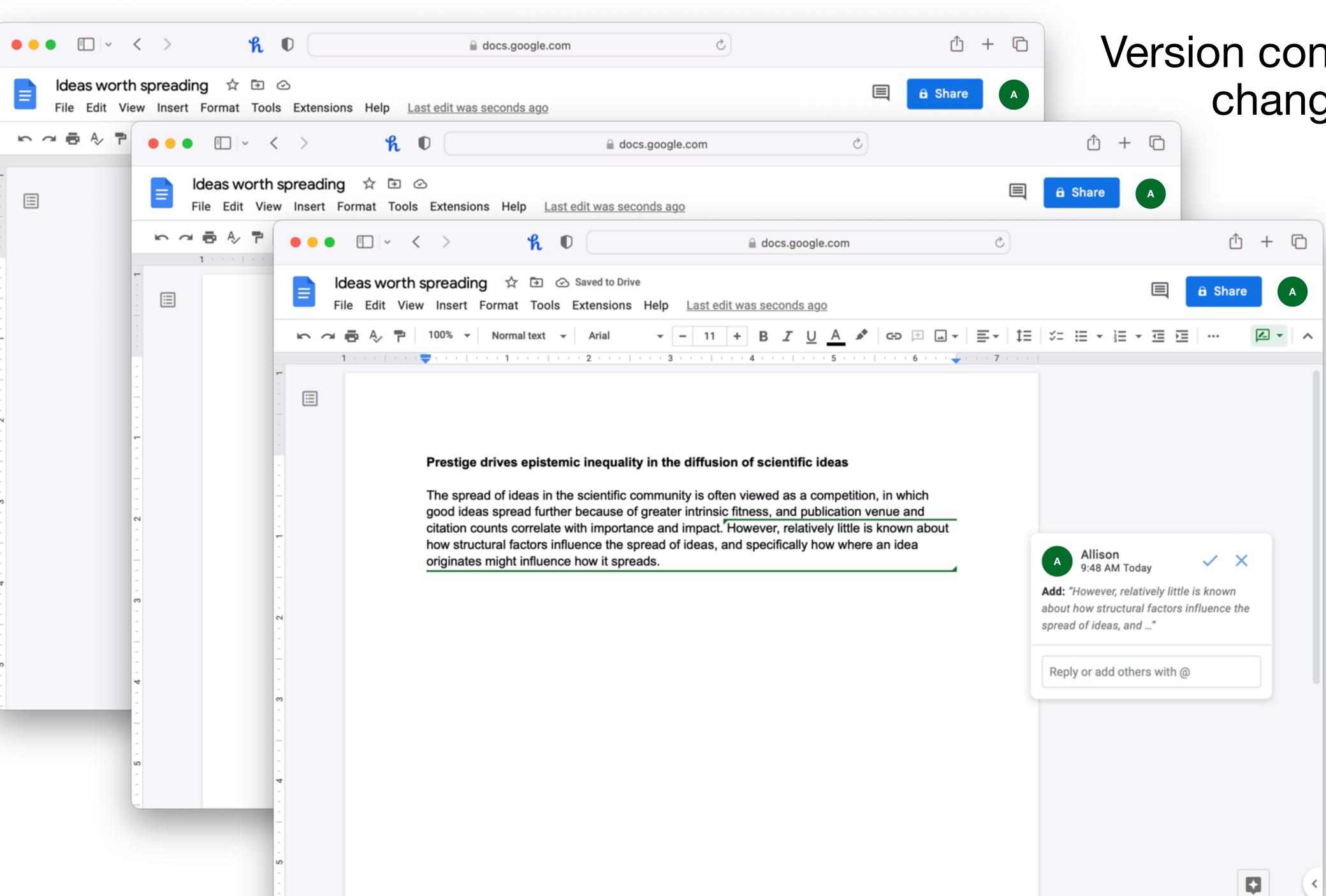


FINAL_rev.18.comments7. corrections9.MORE.30.doc

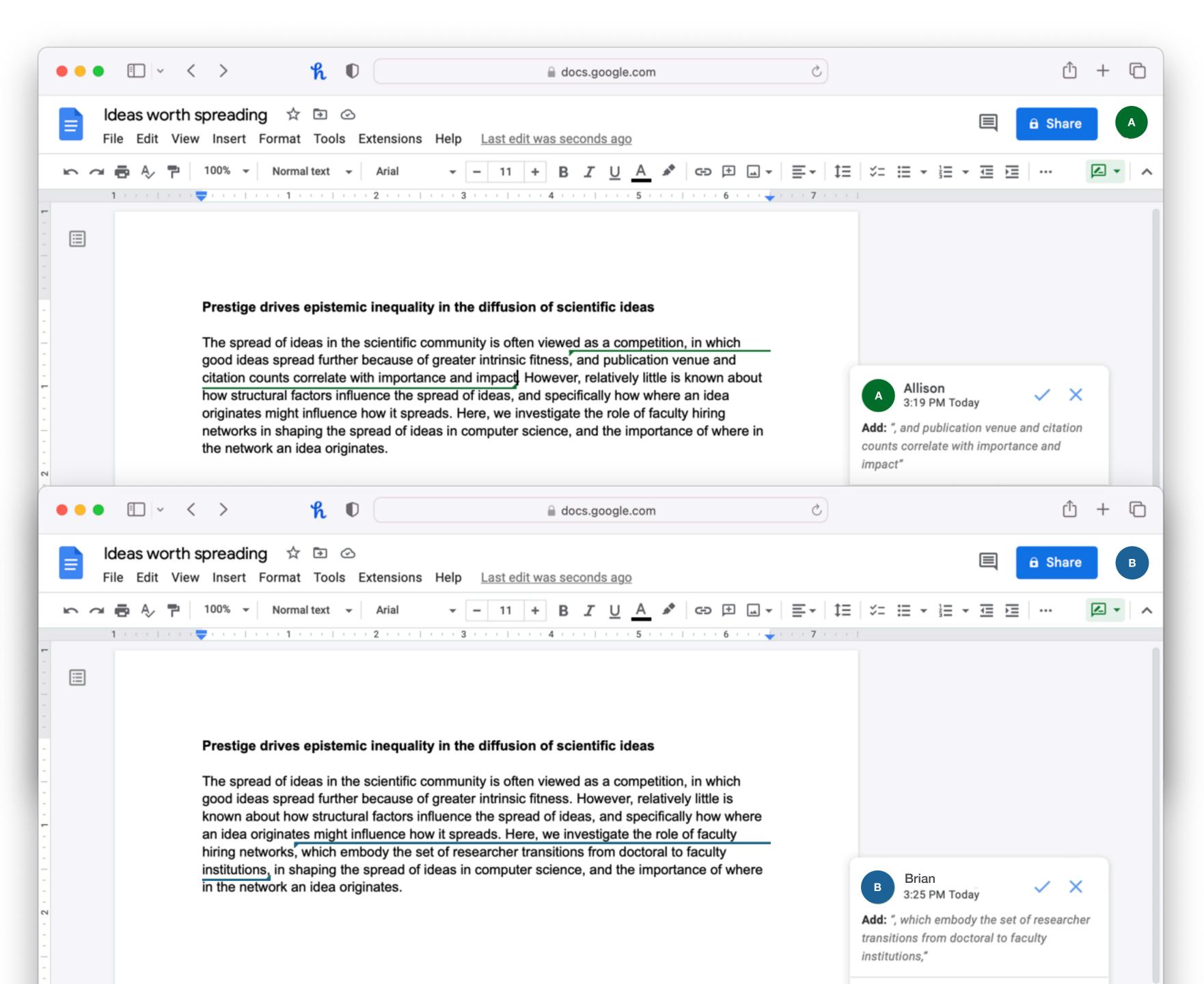
FINAL_rev.22.comments49. corrections.10.#@\$%WHYDID ICOMETOGRADSCHOOL????.doc

WWW.PHDCOMICS.COM



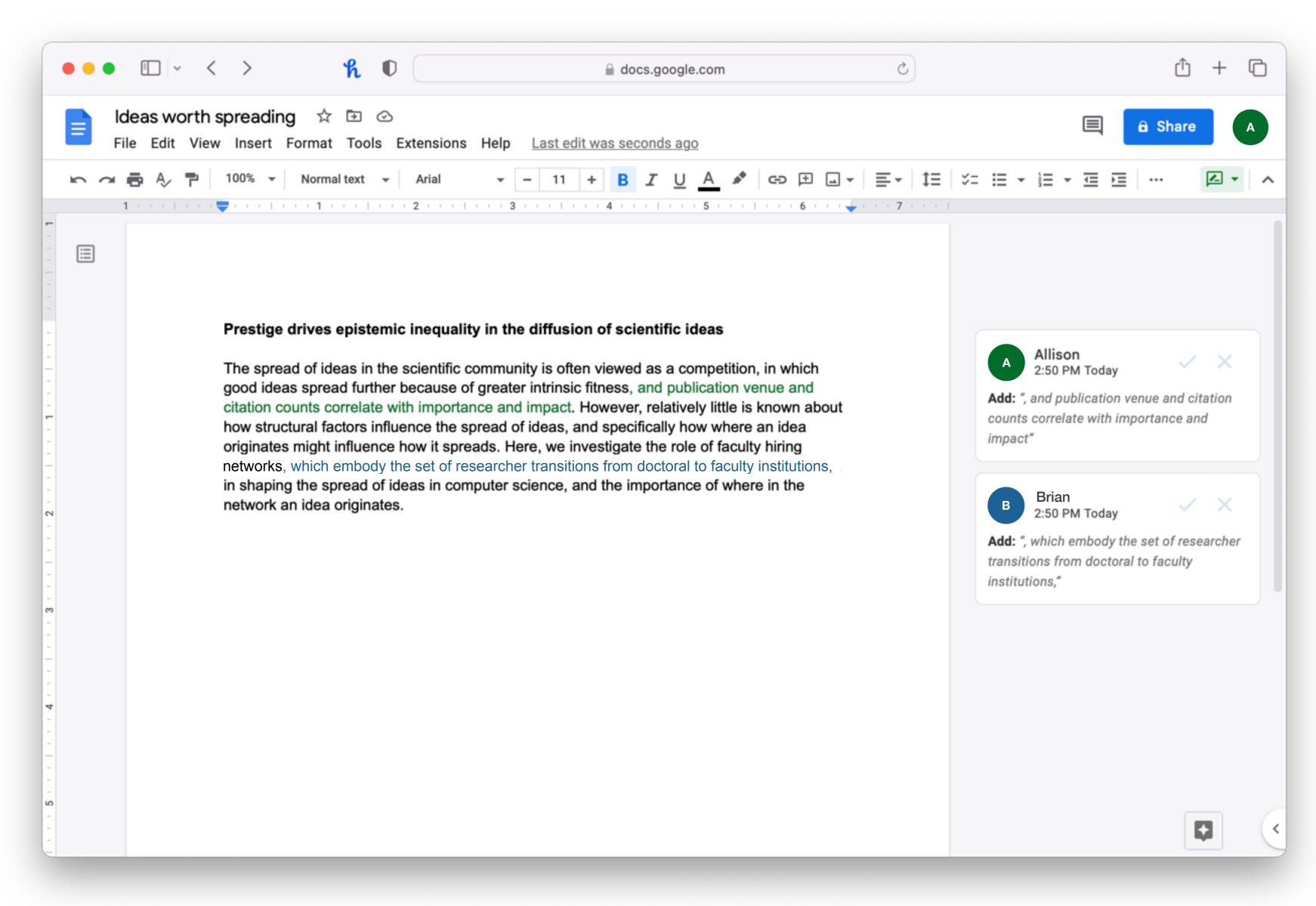


Version control records changes all along the way



Version control records changes all along the way

Collaborators can make their changes independently



Version control records changes all along the way

Collaborators can make their changes independently

And as long as changes don't conflict, it's easy to merge them into the same document

Version control definitions & takeaways

Version control is a tool that tracks changes (think unlimited undo)

With git, each change is called a commit

Complete history of commits for a particular project make up a repository

Repositories are synced across computers for parallel collaboration

Outline:

- 1. My background
- 2. Automated version control
- 3. Setting up git
- 4. Creating a repository
- 5. Tracking changes
- 6. Collaborating
- 7. More resources

https://github.com/allisonmorgan/tech_toolups_git/

Outline:

- 1. My background
- 2. Automated version control
- 3. Setting up git
- 4. Creating a repository
- 5. Tracking changes
- 6. Collaborating
- 7. More resources

Thank you!

Allie Morgan
Sr. Data Scientist, Twitter
allison.morgan@gmail.com

Videos and reference manual: https://git-scm.com/

Getting started with GitHub: https://docs.github.com/en/get-started

Curriculum for learning Git: https://swcarpentry.github.io/git-novice/

Today's materials:
https://github.com/allisonmorgan/
tech toolups git/