

Introduction to Git and GitHub

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GitHub.com

- What is GitHub?
 - An online repository.
- What is a repository?
 - A place to store files.
 - GitHub is designed to store code, projects, and software.
- What are the advantages to GitHub?
 - Version control.

What is a repository?

- Definition:
 - a central location in which data is stored and managed.
- A repository implements version control.
 - Version controls documents the who, what, when for all changes.
 - Allows for reverting code back to an older version
 - Permits multiple people to work on code at the same time
- <https://github.com/matplotlib/matplotlib>

What is a repository?

- Examples:
 - CRAN
 - Ancestry.com
 - Library of Congress Historical Maps Collection
 - Google Books
 - Smithsonian Images
 - Ravelry.com

Let's make a repository

- Create a repository using GitHub Desktop.
- Make some changes to the repository.
- Merge those changes to GitHub.

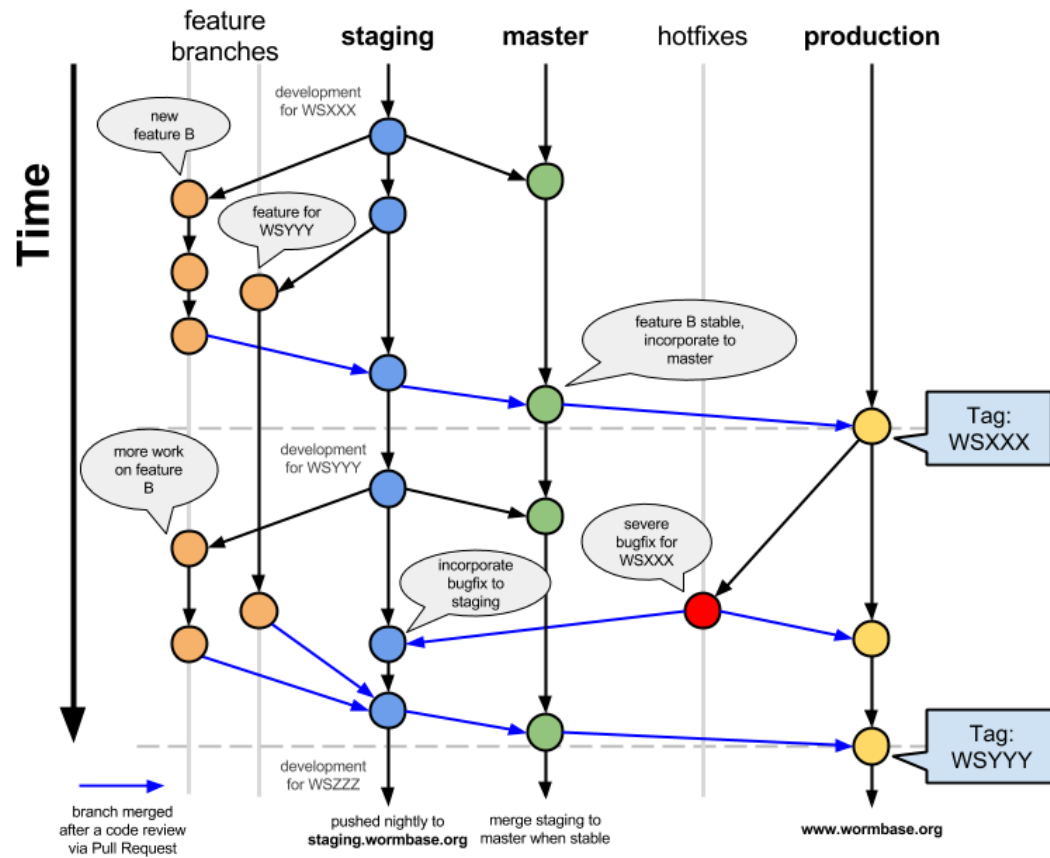
Let's add a collaborator to repository

- Meet your neighbor, say hi, introduce yourself.
- Ask them for their GitHub ID, add them to your repository.

Let's clone a repository

- Use GitHub Desktop to clone the repository
- Make some changes to a document.
- Commit the changes. Don't forget to include a message!
- Push to GitHub.

WormBase Web Development Workflow with Git



<http://wiki.wormbase.org>