Open Project Management

from an “open” perspective

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http://bradly-alicea.weebly.com

Lecture 3

All content

CC BY

Further Reading

Oh My Git! An Interactive way to learn version-control
https://ohmygit.org/

Git Guides
https://github.com/git-guides/

Getting Git Right (Atlassian Bitbucket)
https://www.atlassian.com/git

GitHub Docs
https://docs.github.com/en

Galen M. Charlton, Distributed Version Control and Library Metadata
code4lib Journal, 3, 6-23. https://journal.code4lib.org/articles/86

Github from the Command Line

https://cli.github.com/

What is “Git”?

Linus Torvalds coined the term in 2005.

A version-control system, allows you to manage edits to a document shared by many collaborators.

Managing Linux Kernel development, Torvalds used a proprietary tool, which cost money.

Alternative to concurrent version systems (CVS). Open protocol (free to use and develop).

Every Git directory on every computer is a full-fledged repository with complete history and full version-tracking abilities, independent of network access or a central server.

Git forms the core of Github, but is not the only Git-based system.

History of Git: https://www.geeksforgeeks.org/history-of-git/

Version Control for Distributed Working

Forking and the Basics of Version Control

The Role of Forking

Nyman, L. and Lindman, J. (2013). Code Forking, Governance, and Sustainability in Open Source Software. Technology Innovation Management Review. January.

Open-source Rights:

- improve a program or right to combine many programs.
- making a program compatible with others.

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Forking can either help or hinder development:

- need to create different functionality.
- need to create versions with different goals.

Forking can be hugely successful!

May the Fork be With You: https://thenewstack.io/may-fork-short-history-open-source-forks/

Every time there is a fork, and I think forks are actually good things, it means somebody sees a need and a technical reason to do something different from the standard kernel. But most forks are failures. They find that the things they needed were not actually worth doing and as a result, most forks die. — Linus Torvalds

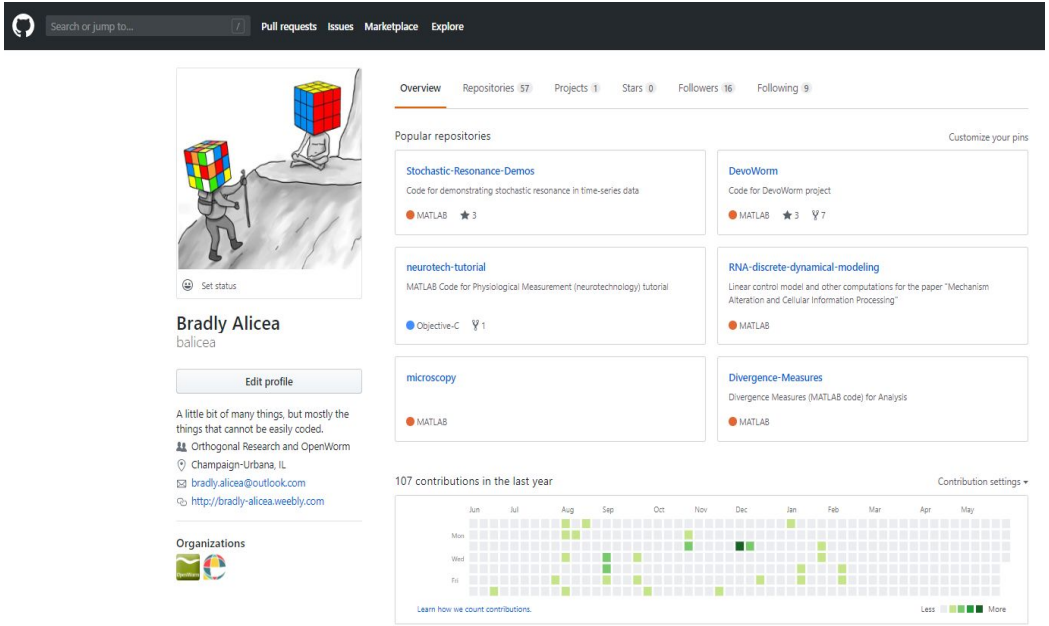
Version Control for Distributed Working

Using Github and Open Science Framework

What is a Github Repository?

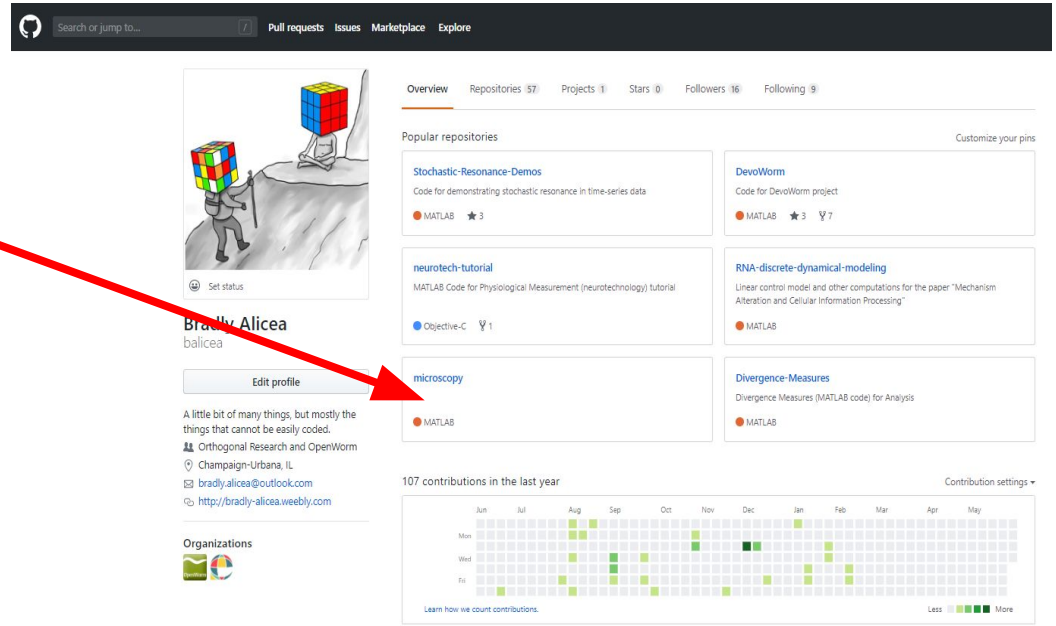
http://www.github.com

/yourusername

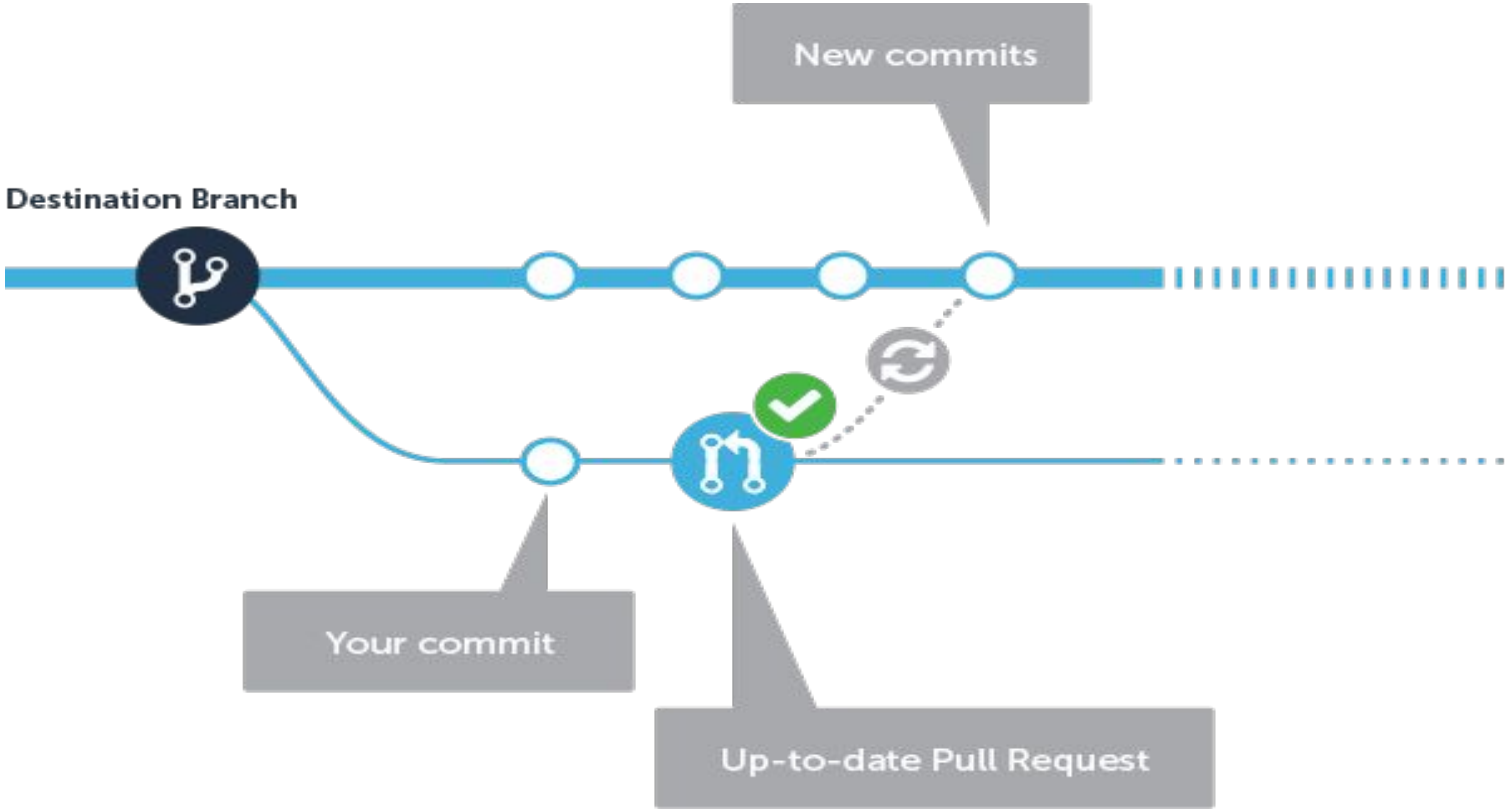


Each repository in the Overview tab contains:

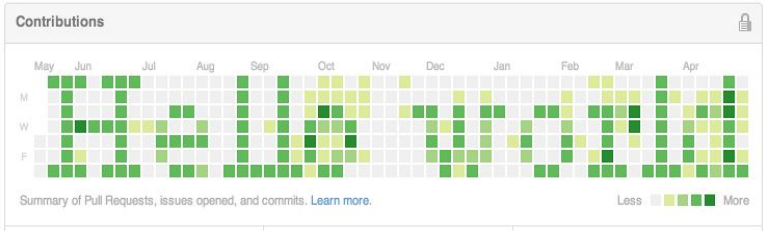
- README, subdirectories, and additional tools
- functions as a project showcase and server for work in progress.



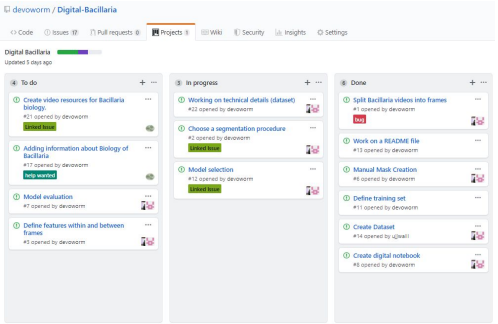
What is Version Control?



Let’s review some concepts

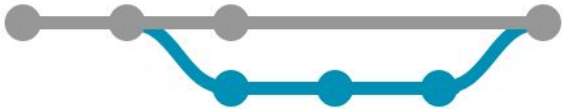


Edit History: a complete set of contributions and prior versions



Task and issue management

Branching and merging



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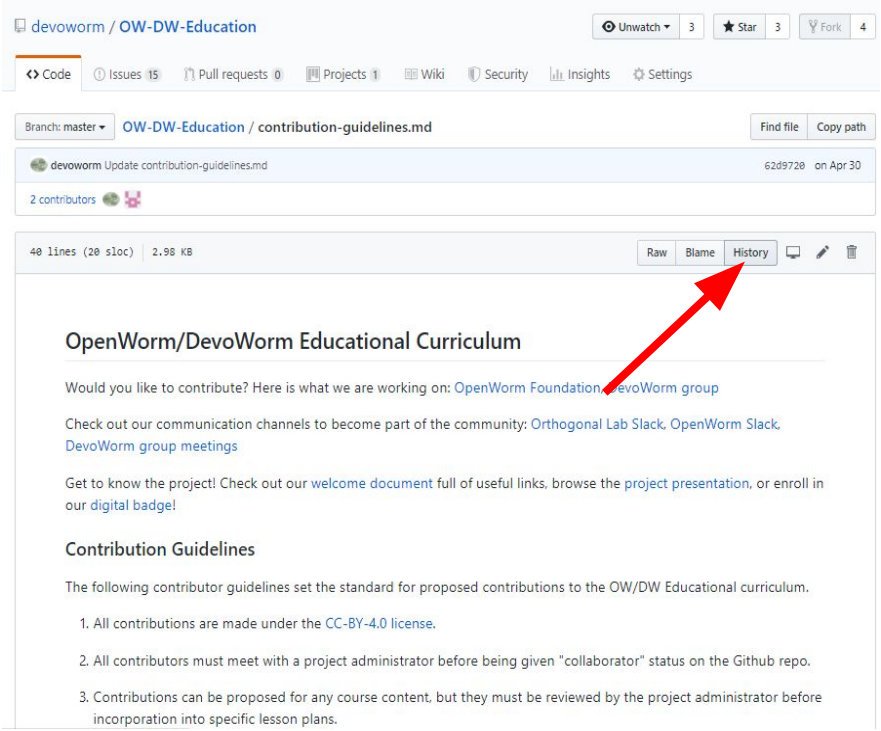

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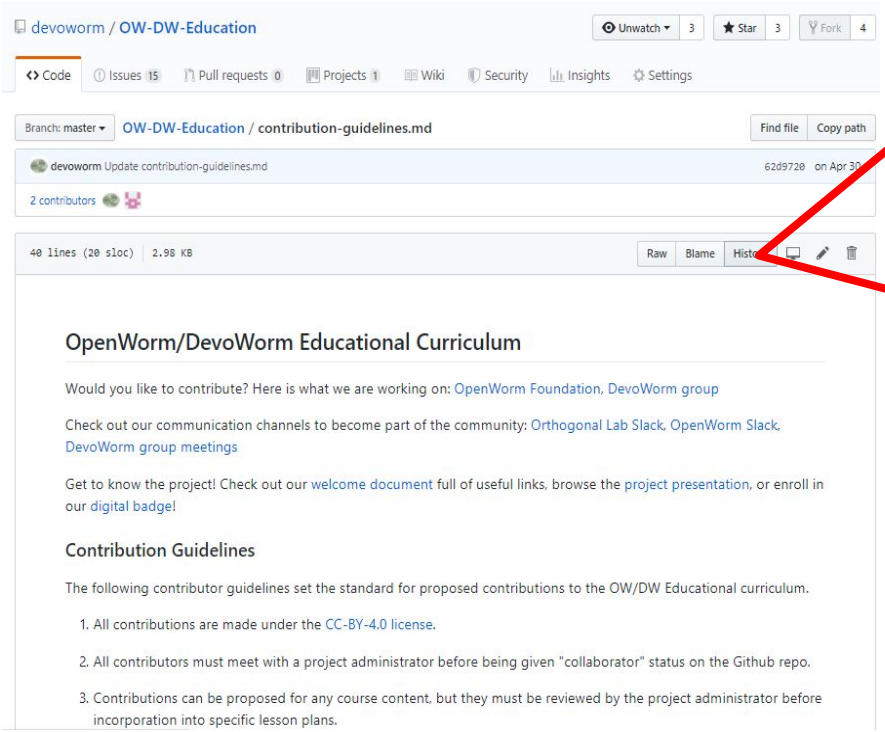

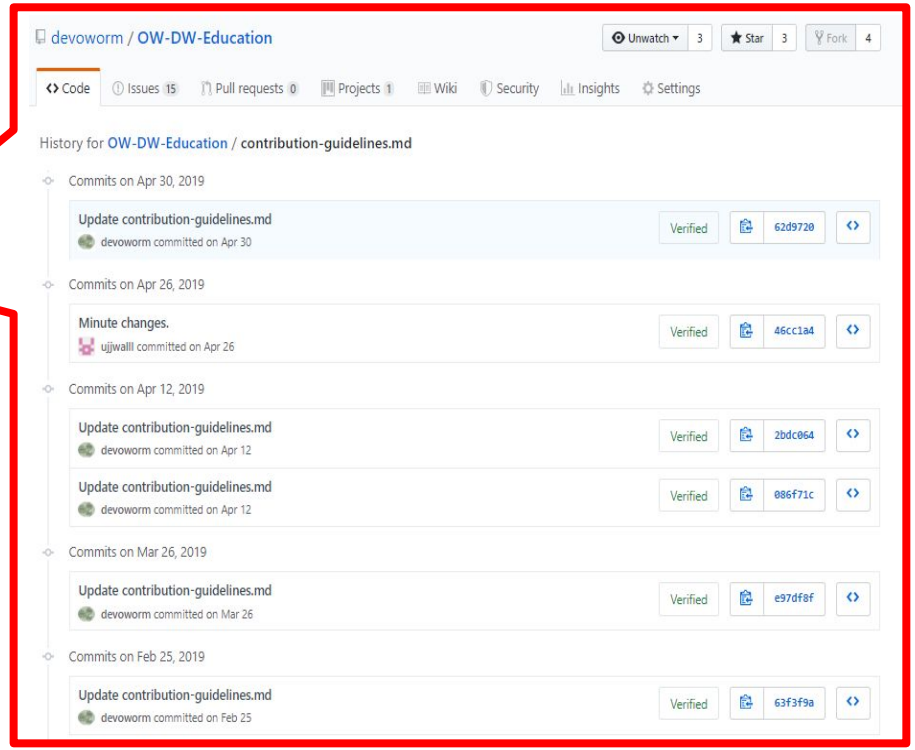

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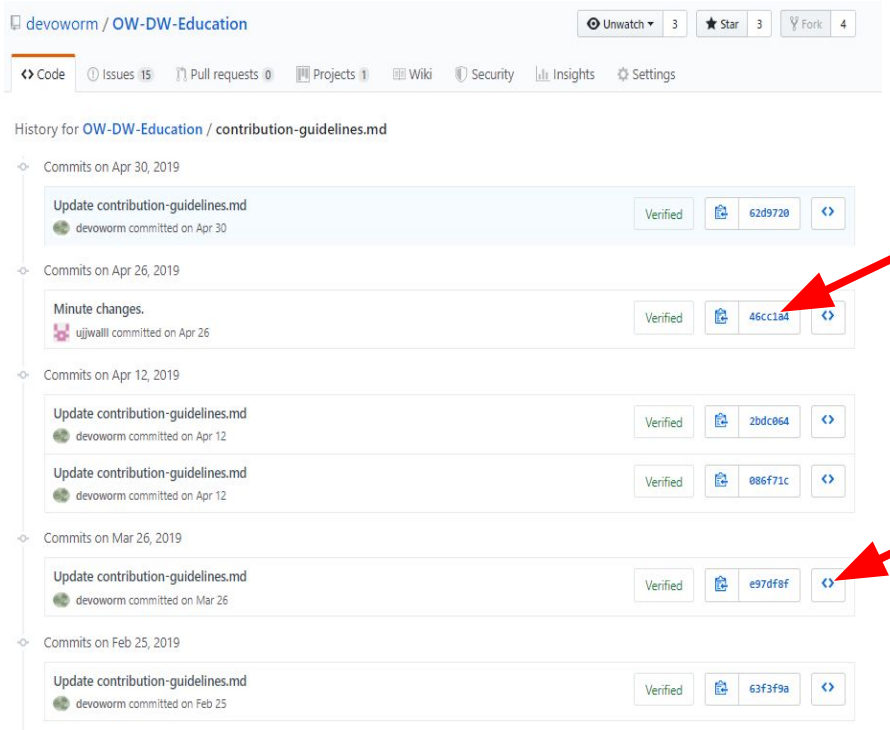
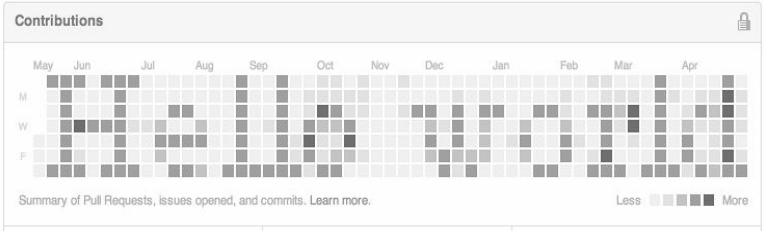


View document changes for this commit (April 26)

View directory at time of this commit (March 26)

Let’s review some concepts



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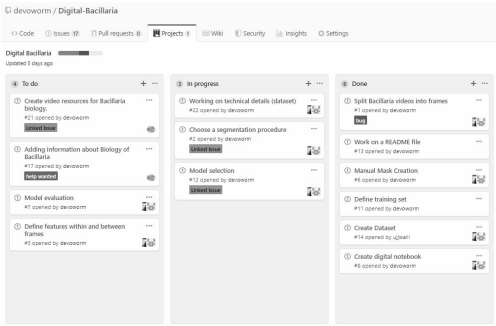
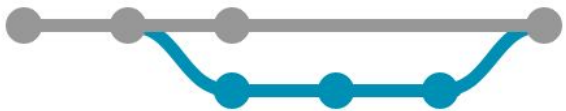
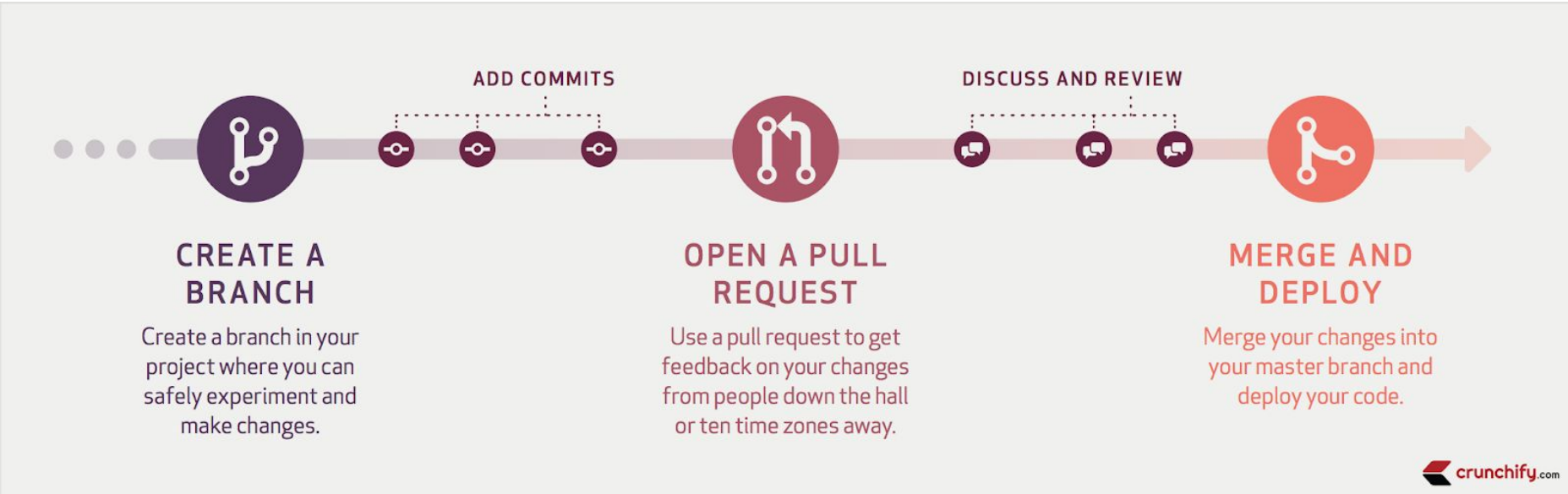


Task and issue management

Branching and merging



Branching = FORK, Merging = PULL REQUEST



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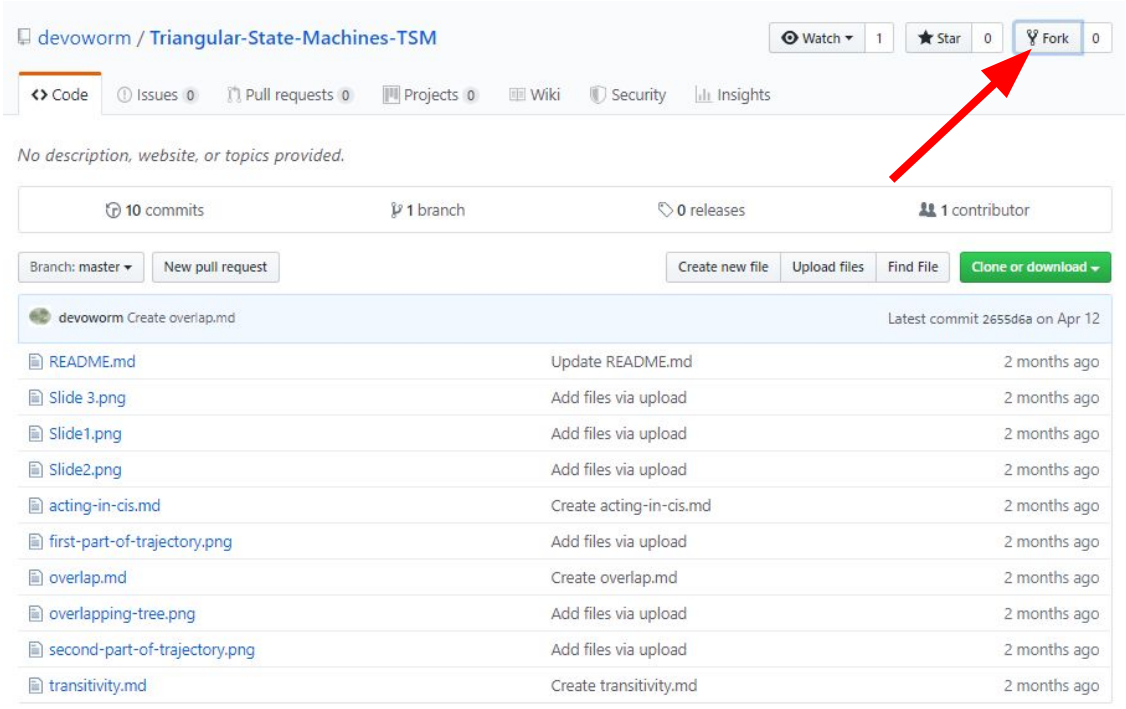

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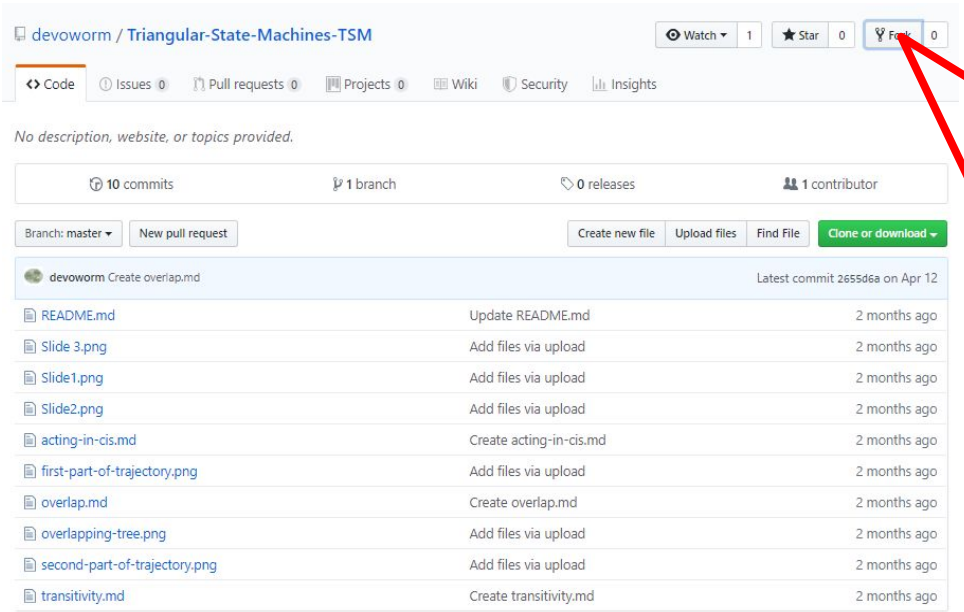

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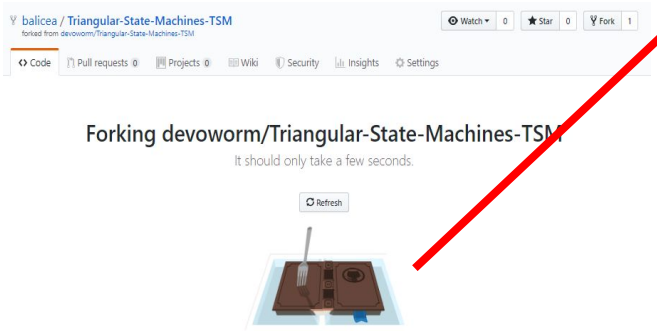


balicea / Triangular-State-Machines-TSM
forked from devoworm/Triangular-State-Machines-TSM

Watch 0 | Star 0 | Fork 1

Code | Pull requests 0 | Projects 0 | Wiki | Security | Insights | Settings

No description, website, or topics provided. Edit

Manage topics

10 commits | 1 branch | 0 releases | 1 contributor

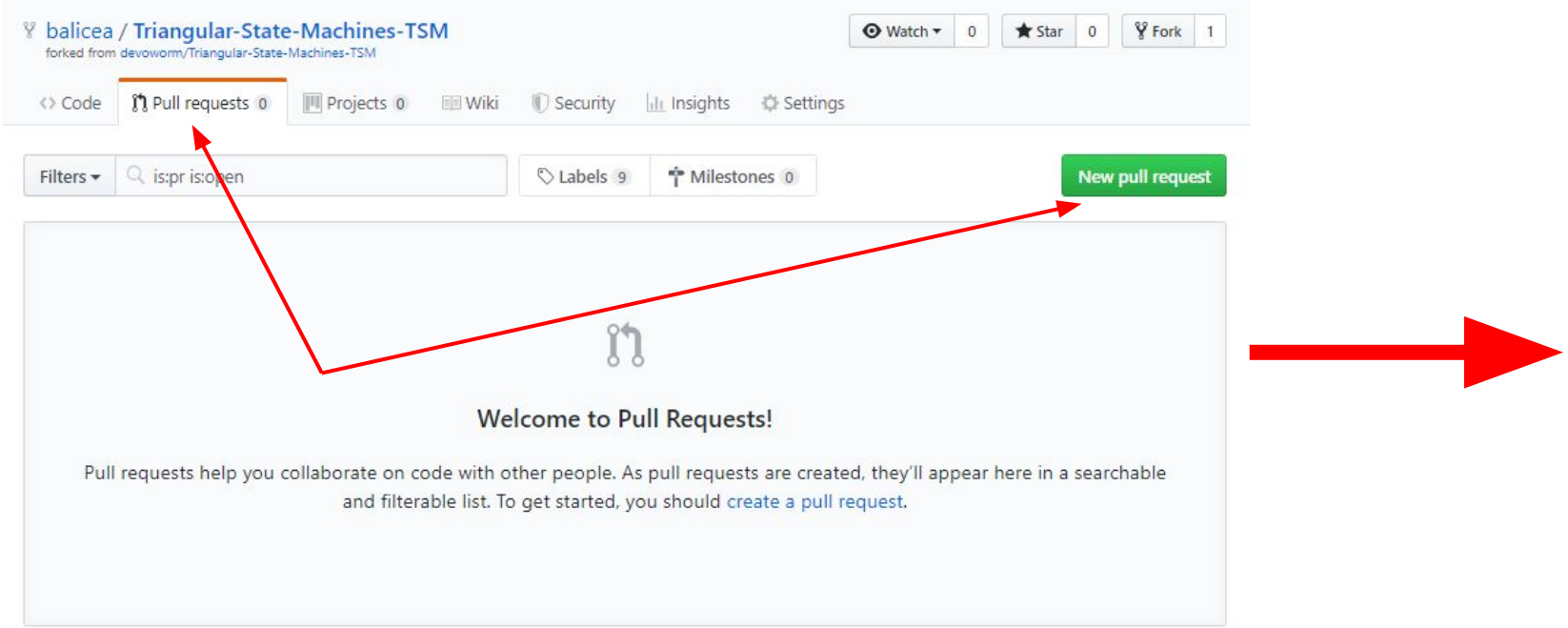
Branch: master | New pull request | Create new file | Upload files | Find File | Clone or download

This branch is even with devoworm:master. Pull request | Compare

devoworm Create overlap.md — Latest commit 2655d6a on Apr 12

README.md	Update README.md	2 months ago
Slide 3.png	Add files via upload	2 months ago
Slide1.png	Add files via upload	2 months ago
Slide2.png	Add files via upload	2 months ago
acting-in-cis.md	Create acting-in-cis.md	2 months ago
first-part-of-trajectory.png	Add files via upload	2 months ago
overlap.md	Create overlap.md	2 months ago
overlapping-tree.png	Add files via upload	2 months ago
second-part-of-trajectory.png	Add files via upload	2 months ago
transitivity.md	Create transitivity.md	2 months ago

Branching = FORK, Merging = PULL REQUEST



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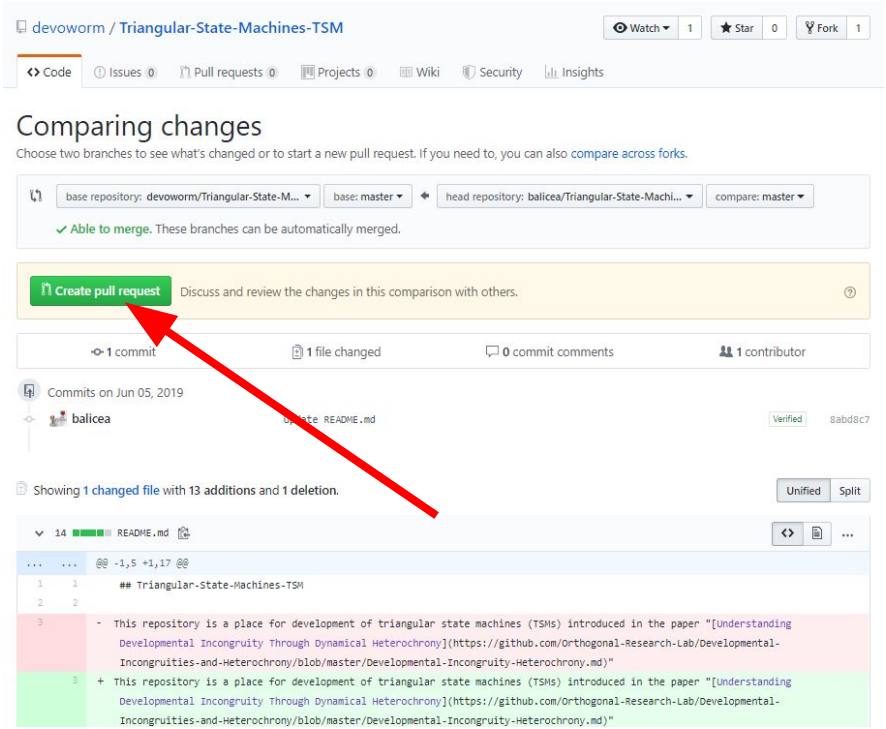

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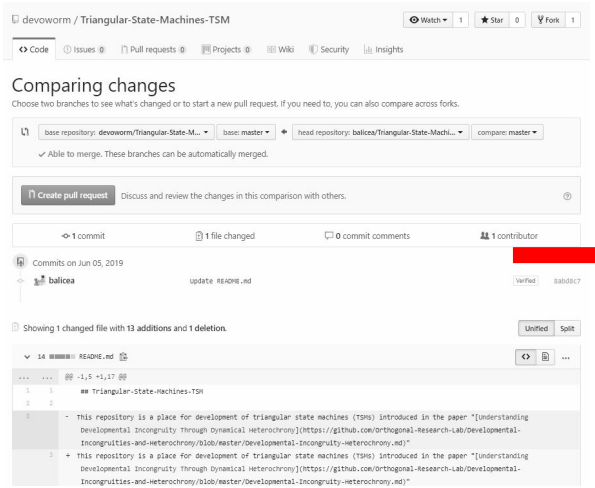

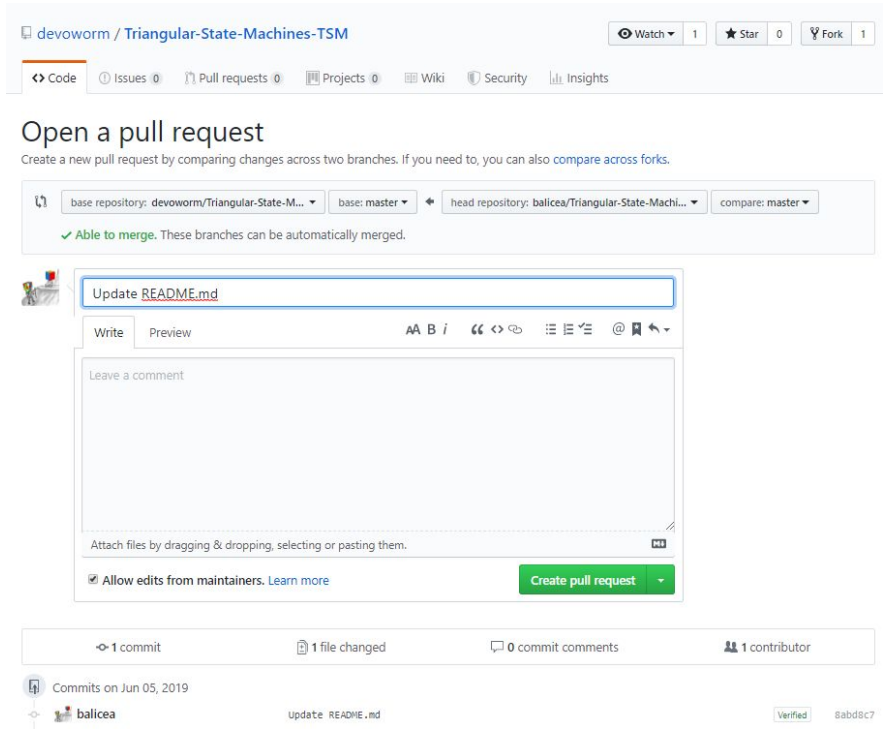

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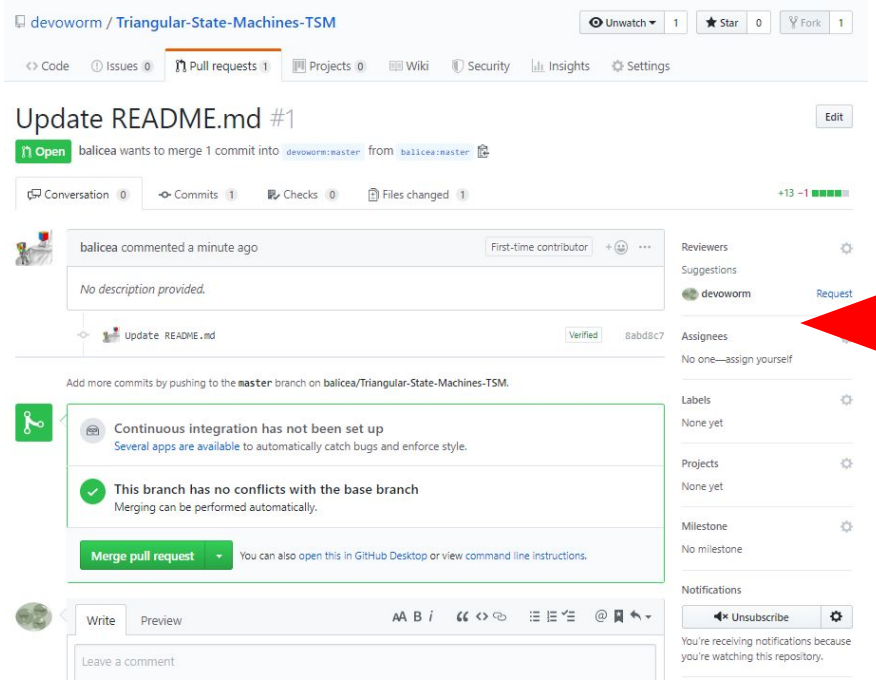
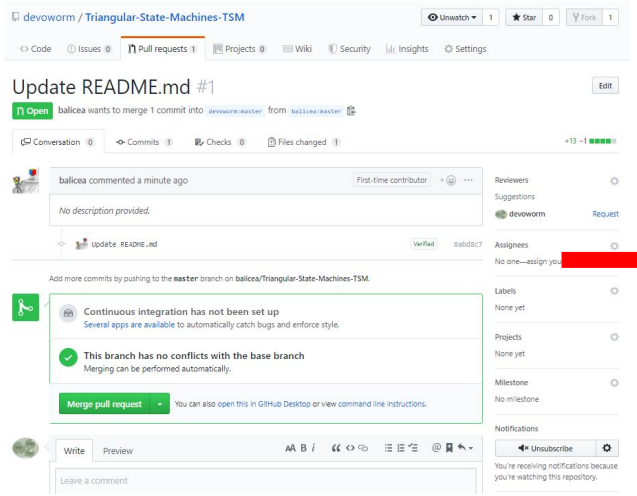
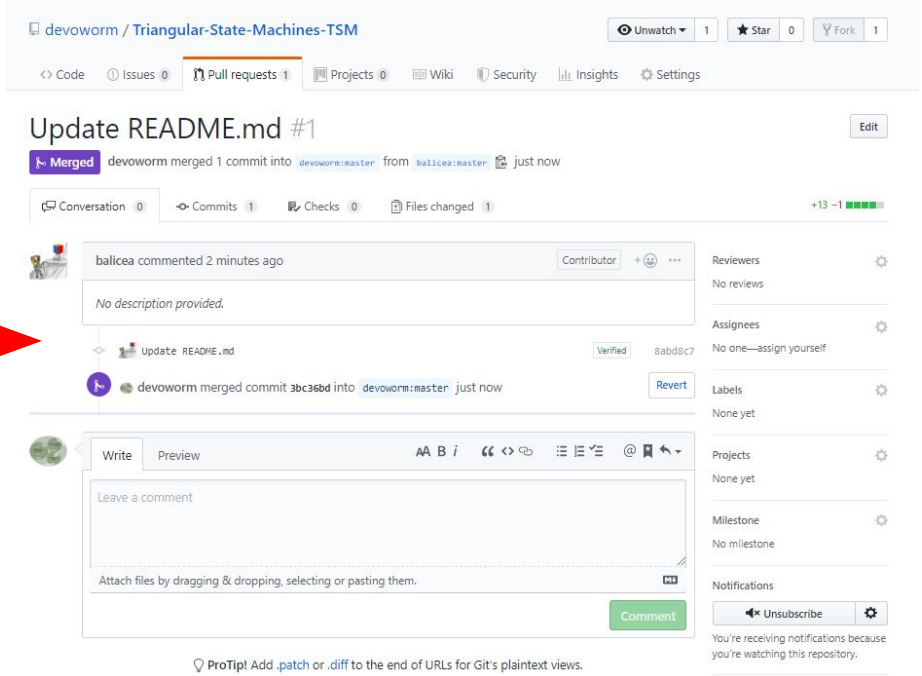


What pull request looks like to administrator of master repository.

Branching = FORK, Merging = PULL REQUEST





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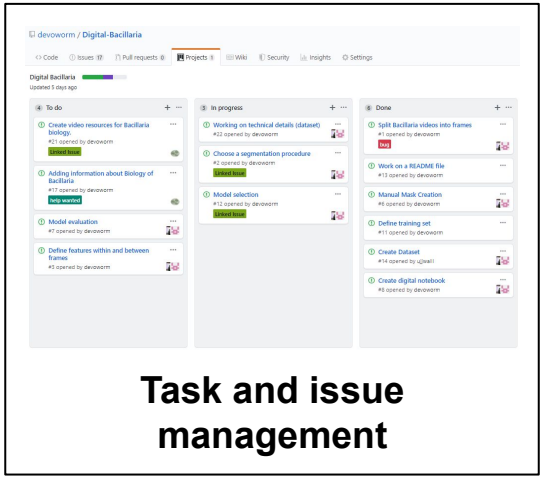
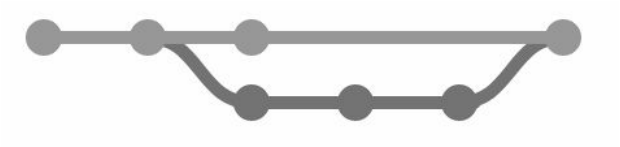
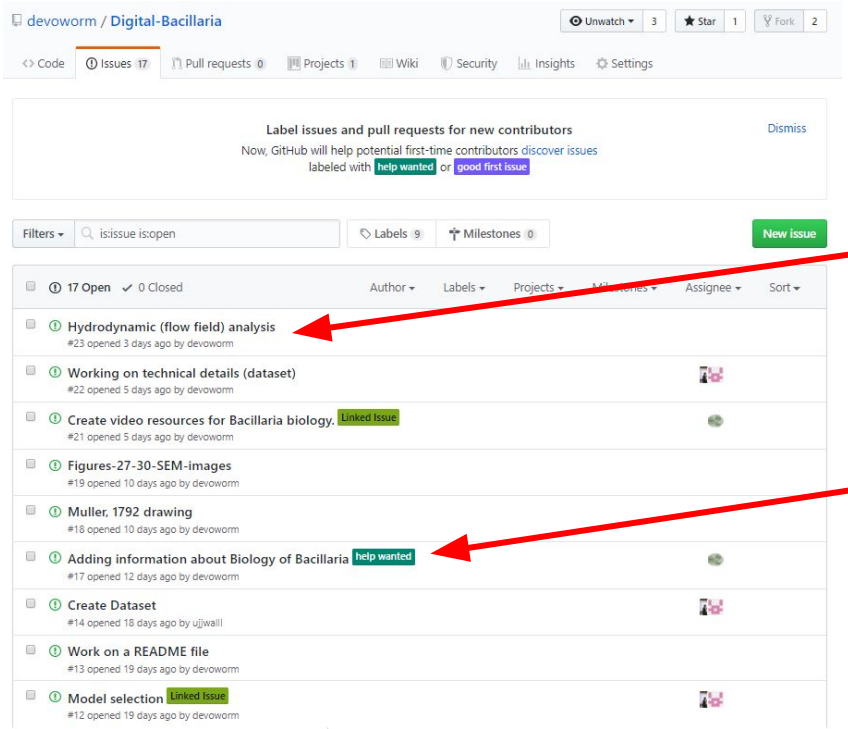


Task and issue management

Branching and merging



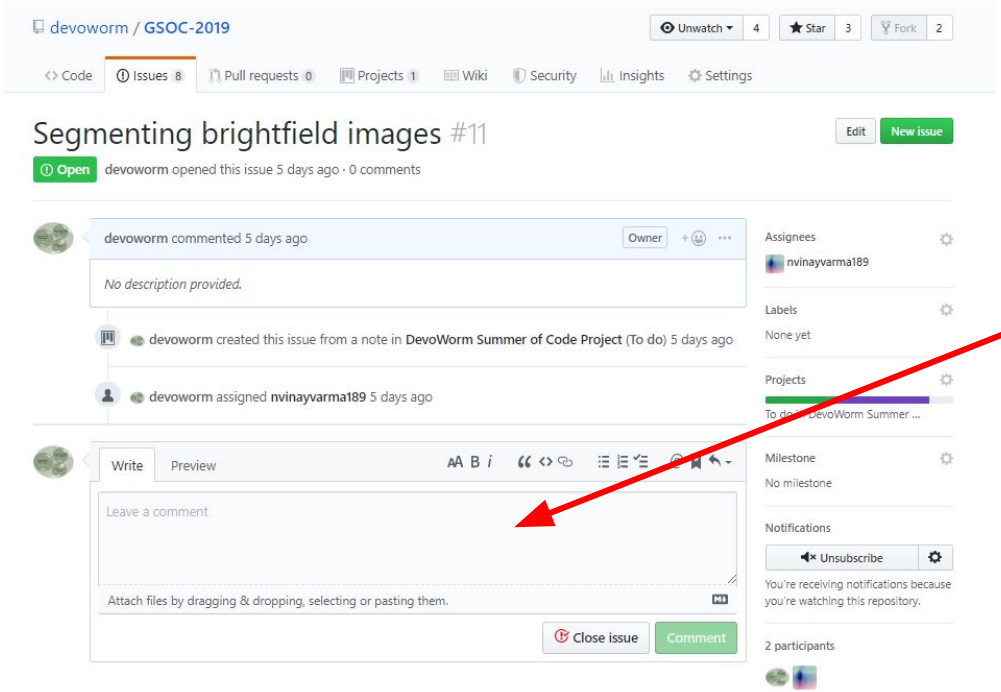
Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT



Issues are IDed by numbers

Tag each issue with a status

Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT

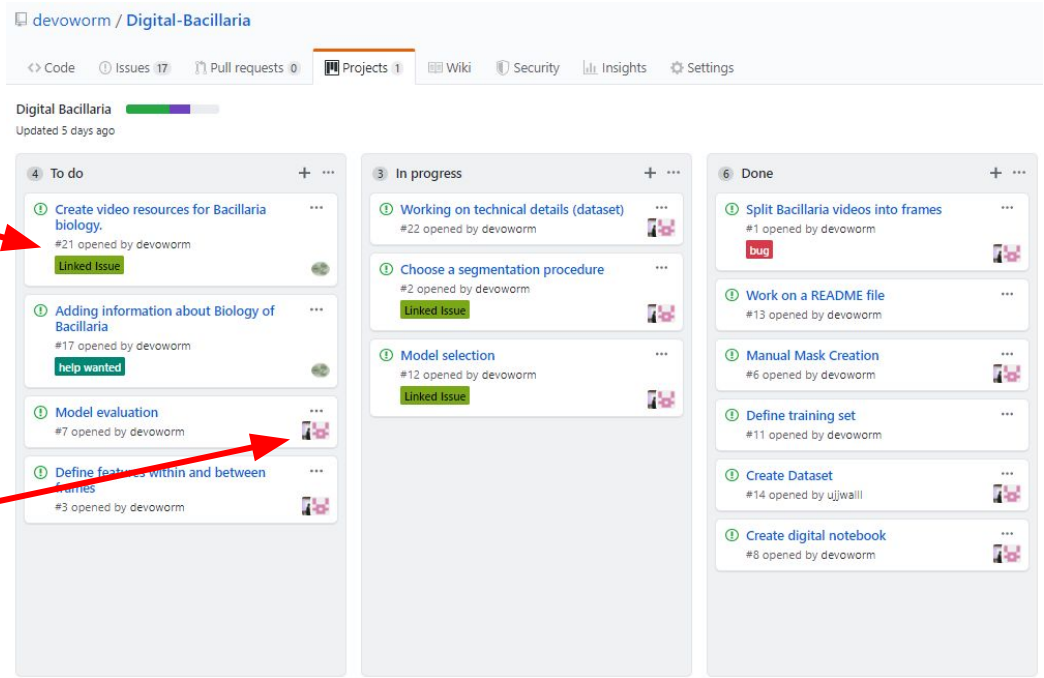


Issue can be updated with comments

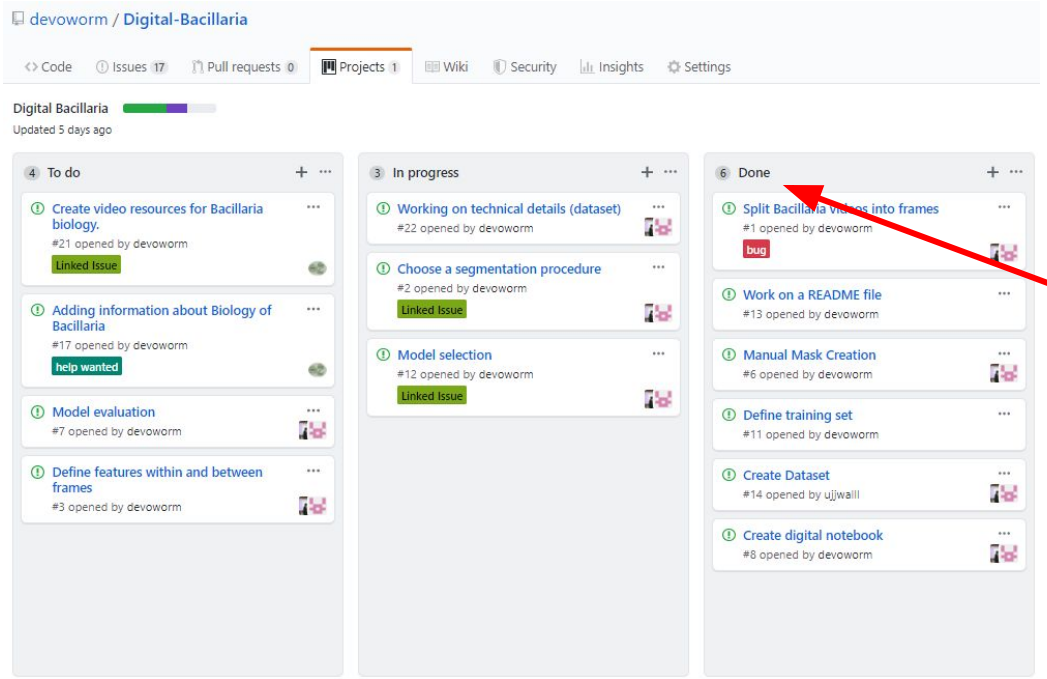
Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT

Issues show up as cards on board in various categories

Assign issues to project members



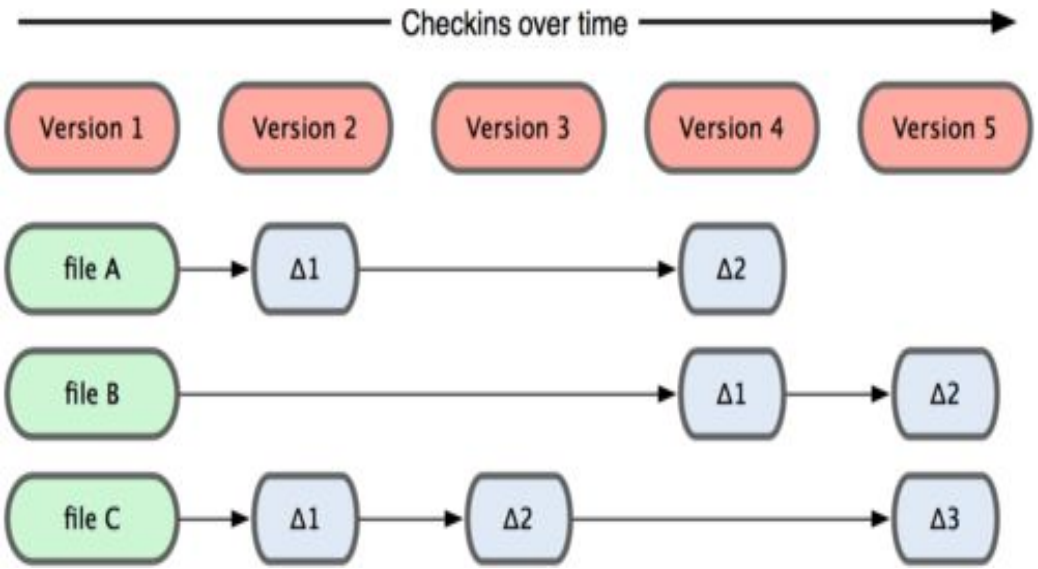
Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT



Move cards to their status (in progress, done)

Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT

Another means of version control: checking-in and checking-out documents



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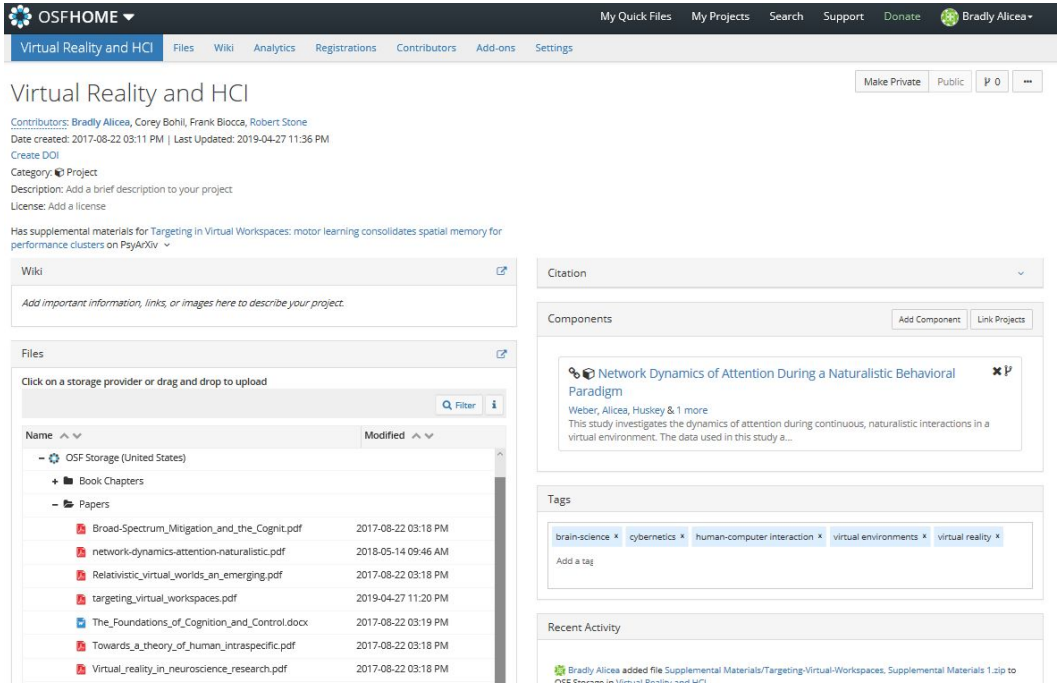

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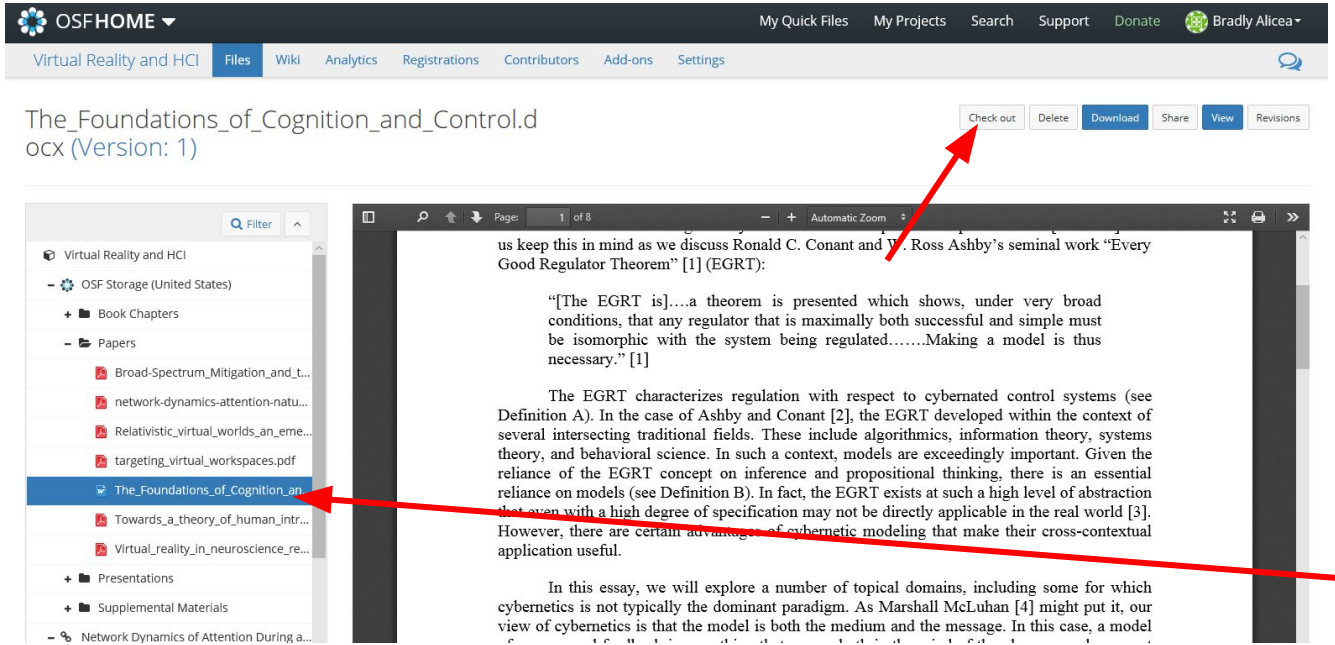

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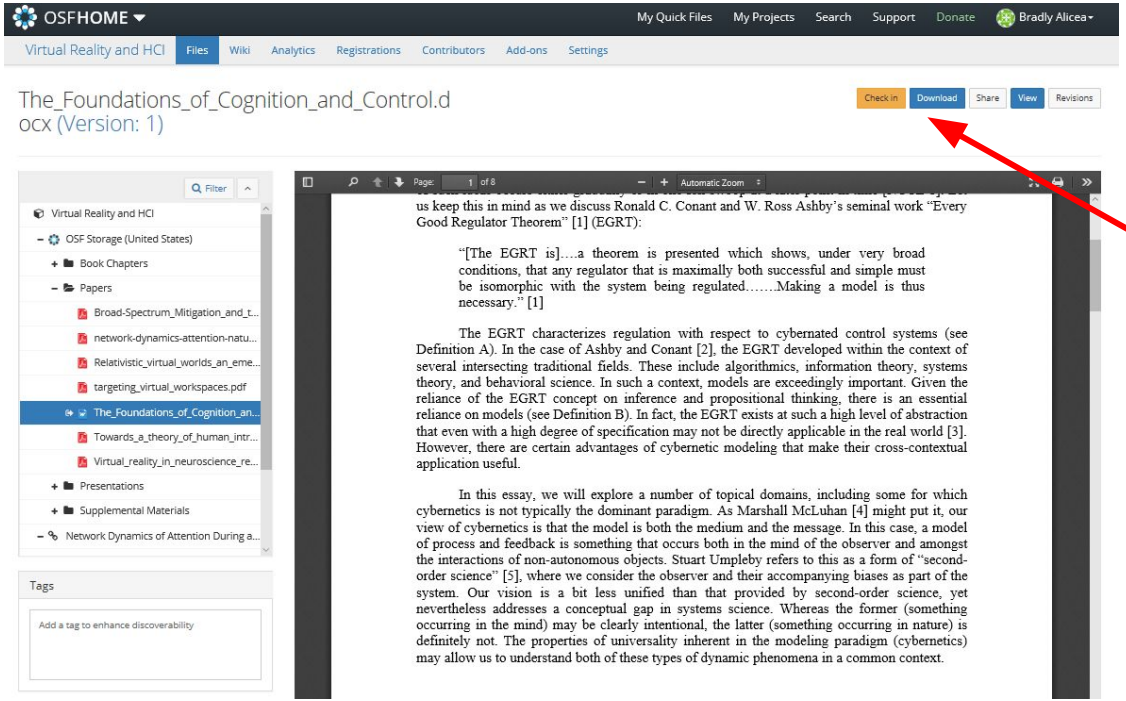
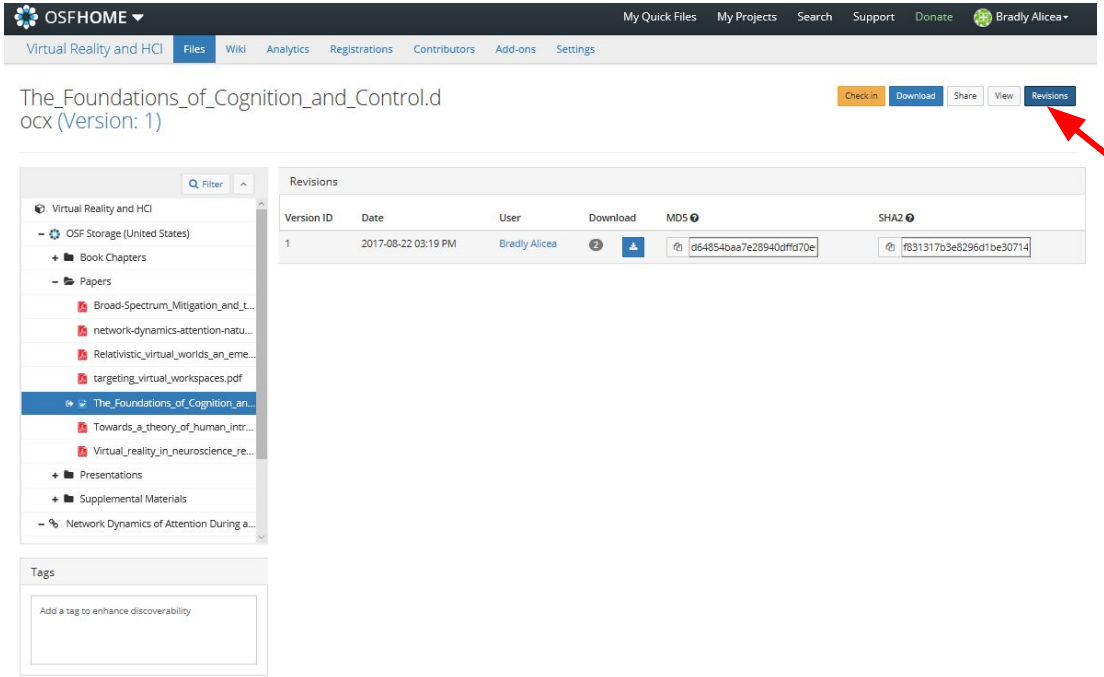
Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT



Download to modify, upload, then check-in to prevent overwriting

Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT



Check versions to access previous versions of the document

From Version Control to Governance

(managing collaborators in a broader context)

Open-source Community Governance

How do we manage multiple collaborators and their preferences?

Technologically-mediated: version-control, authority control, argument maps.

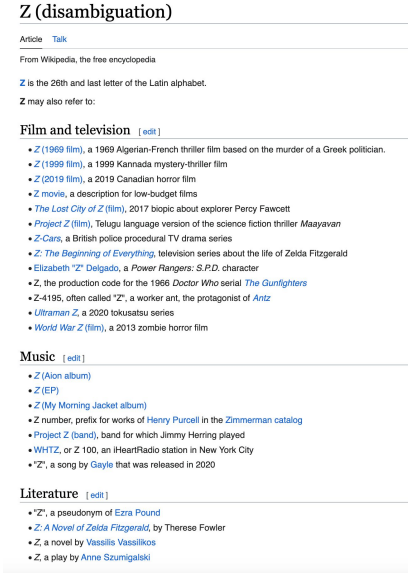
Governance: the creation of policies that enable collective wisdom and a means to mediate interactions through laws, norms, and power relations.

Governance Technologies: Authority Control

Process to define conventions with single spellings, disambiguations and other linkages (tools, relevant contributors).

Examples:
Disambiguating diverse names for a single subject, same name for multiple subjects

How to conduct related multi-step tasks, with links between similar parts of each process.



Z (disambiguation)

Article Talk

From Wikipedia, the free encyclopedia

Z is the 26th and last letter of the Latin alphabet.

Z may also refer to:

Film and television [edit]

- *Z* (1969 film), a 1969 Algerian-French thriller film based on the murder of a Greek politician.
- *Z* (1999 film), a 1999 Kannada mystery-thriller film
- *Z* (2019 film), a 2019 Canadian horror film
- Z movie, a description for low-budget films
- *The Lost City of Z* (film), 2017 biopic about explorer Percy Fawcett
- *Project Z* (film), Telugu language version of the science fiction thriller *Maayavan*
- *Z-Cars*, a British police procedural TV drama series
- *Z: The Beginning of Everything*, television series about the life of Zelda Fitzgerald
- Elizabeth "Z" Delgado, a *Power Rangers: S.P.D.* character
- Z, the production code for the 1966 *Doctor Who* serial *The Gunfighters*
- Z-4195, often called "Z", a worker ant, the protagonist of *Antz*
- *Ultraman Z*, a 2020 tokusatsu series
- *World War Z* (film), a 2013 zombie horror film

Music [edit]

- *Z* (Aion album)
- *Z* (EP)
- *Z* (My Morning Jacket album)
- Z number, prefix for works of Henry Purcell in the Zimmerman catalog
- Project Z (band), band for which Jimmy Herring played
- WHTZ, or Z 100, an iHeartRadio station in New York City
- "Z", a song by Gayle that was released in 2020

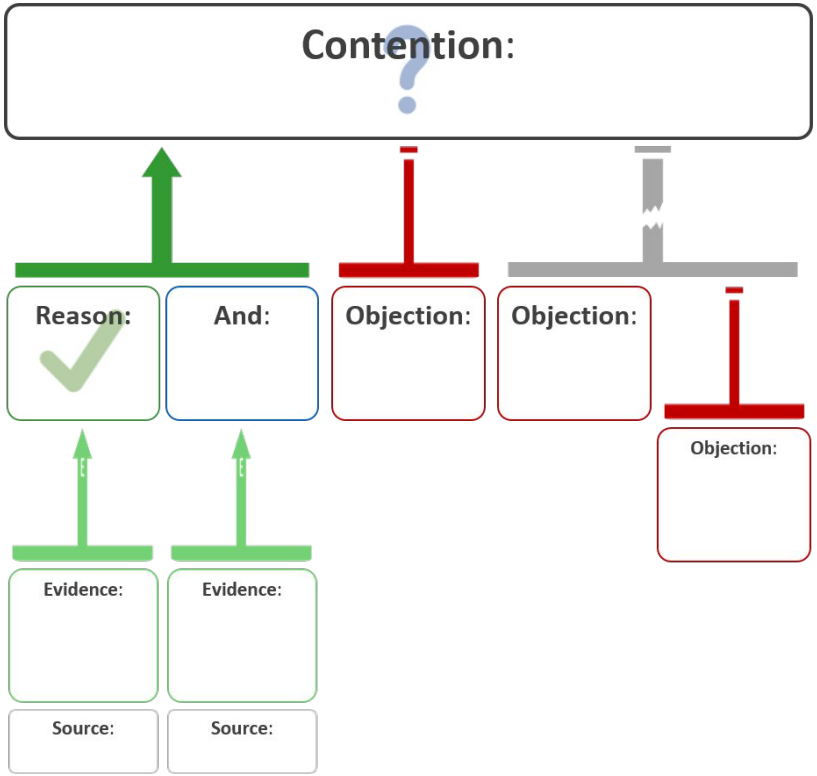
Literature [edit]

- "Z", a pseudonym of Ezra Pound
- *Z: A Novel of Zelda Fitzgerald*, by Therese Fowler
- *Z*, a novel by Vassilis Vassilikos
- *Z*, a play by Anne Szumigalski

Controlled vocabulary: selected set of words or phrases that tag units of information in a systematic way.

- subject headings and indices, predefined via consensus.

Governance Technologies: Argument Maps



An adversarial approach to best practices:

- presents a logical flow of reasons for doing something, evidence for position, and objections.
- coordinate different points-of-view and preserves them for later reconsideration (didn't we discuss this before?)
- reveals reasoning to entire organization, preserves potential solutions if needed in the future.

Governance Example: Wikipedia

Chief Editor Model

Jimmy Wales is final arbiter for changes in community.

Vocabulary → aim for college-level. Authority control (https://en.wikipedia.org/wiki/Authority_control).

Neutral point of view (NPOV): the glue that binds the community together, but also a means to achieving community standards.

NOT a marketplace or adversarial venue. **IS** a cooperative community.

Prefer mutually-accepted article content over edit wars.