

Open Project Management

from an “open” perspective

Instructor: Dr. Bradly Alicea

<http://bradly-alicea.weebly.com>



Lecture 3

All content



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>

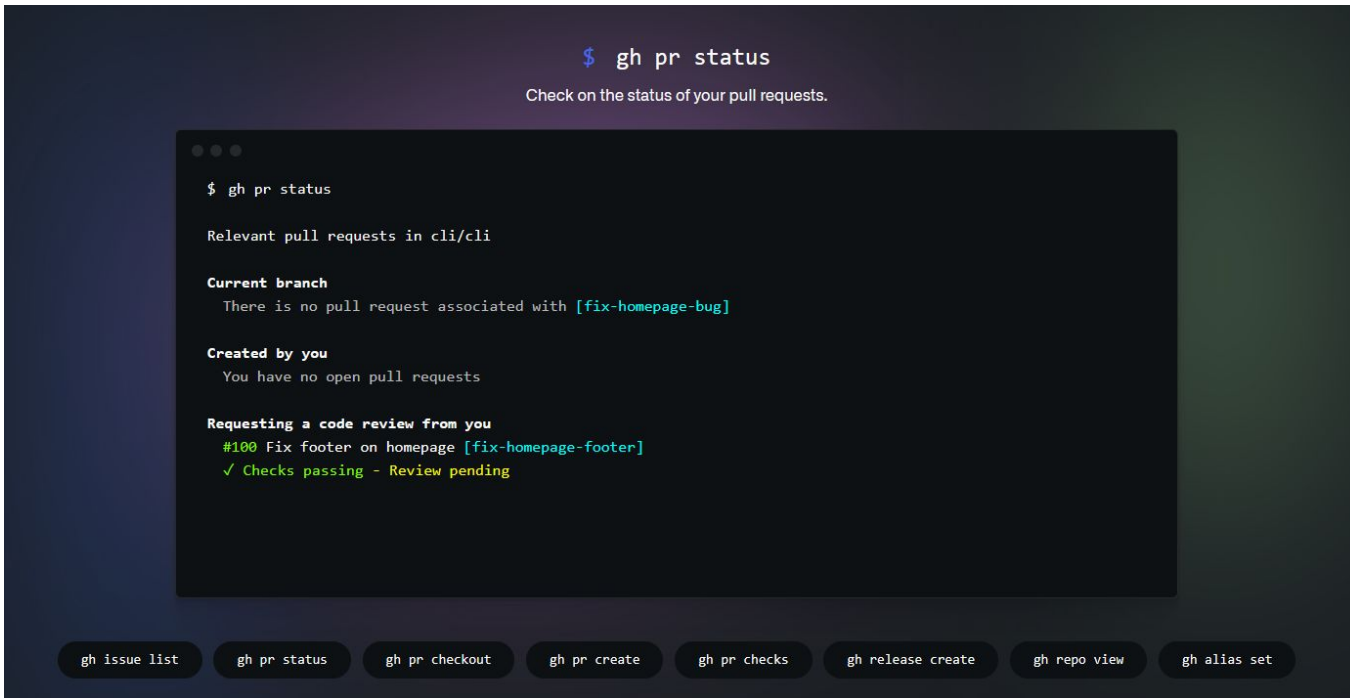
GitHub Docs

<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](https://journal.code4lib.org/articles/86)

Github from the Command Line



The screenshot displays the GitHub CLI interface. At the top, the command `$ gh pr status` is shown, followed by the instruction "Check on the status of your pull requests." Below this, a terminal window shows the output of the command:

```
$ gh pr status  
Relevant pull requests in cli/cli  
  
Current branch  
There is no pull request associated with [fix-homepage-bug]  
  
Created by you  
You have no open pull requests  
  
Requesting a code review from you  
#100 Fix footer on homepage [fix-homepage-footer]  
✓ Checks passing - Review pending
```

At the bottom of the interface, there is a navigation bar with several buttons: `gh issue list`, `gh pr status`, `gh pr checkout`, `gh pr create`, `gh pr checks`, `gh release create`, `gh repo view`, and `gh alias set`.

<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



Open-source Rights:

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

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

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.
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Forking makes it hard to enforce backwards compatibility.

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.

Forking makes it hard to enforce backwards compatibility.

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



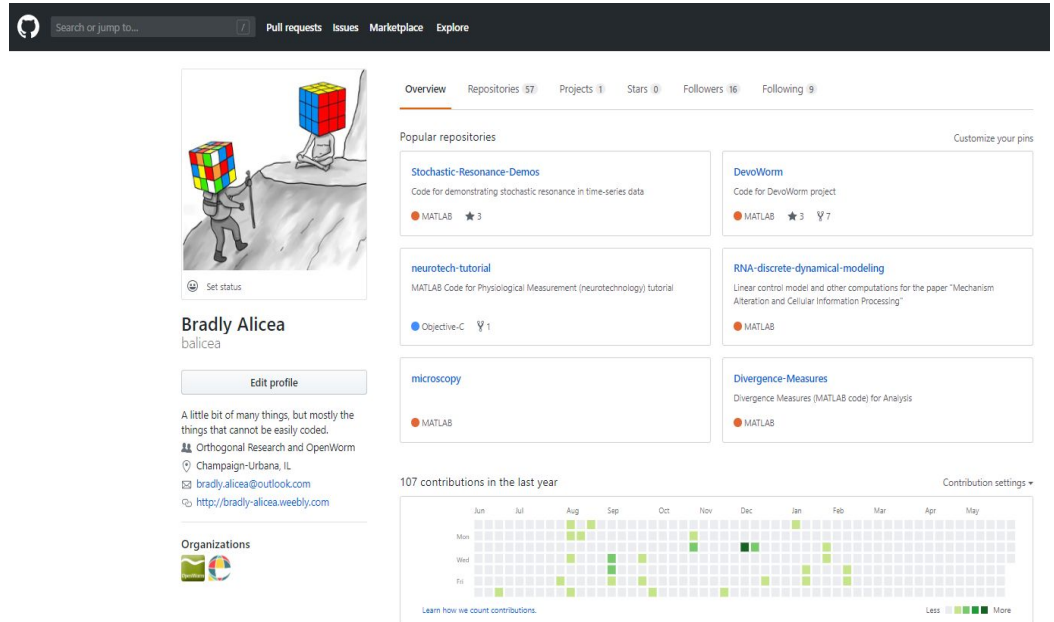
Version Control for Distributed Working

**Using Github and Open Science
Framework**

What is a Github Repository?

<http://www.github.com>

[/yourusername](http://www.github.com/yourusername)



The screenshot shows a GitHub profile page for user 'bralicea'. At the top, there is a navigation bar with 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below the navigation bar, the user's profile information is displayed, including a profile picture of a person carrying a large Rubik's cube, the name 'Brady Alicea', and the username 'bralicea'. There is an 'Edit profile' button. The bio reads: 'A little bit of many things, but mostly the things that cannot be easily coded.' and lists contact information: 'Orthogonal Research and OpenWorm', 'Champaign-Urbana, IL', 'brady.alicea@outlook.com', and 'http://brady-alicea.weebly.com'. Below the bio, there is an 'Organizations' section with a logo. To the right of the profile, there is a navigation menu with 'Overview', 'Repositories 57', 'Projects 1', 'Stars 0', 'Followers 16', and 'Following 9'. The 'Overview' section is active. It features a 'Popular repositories' section with four repository cards: 'Stochastic-Resonance-Demos' (MATLAB, 3 stars), 'DevoWorm' (MATLAB, 3 stars, 7 forks), 'neurotech-tutorial' (Objective-C, 1 fork), and 'microscopy' (MATLAB). Below the repository cards, there is a '107 contributions in the last year' section with a heatmap showing contributions from June to May. The heatmap shows contributions on various days of the week, with a legend indicating the number of contributions (Less, More).

Each repository in the Overview tab contains:

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

The screenshot shows the GitHub profile page for 'bradly-alicea' (balicea). The profile includes a bio: 'A little bit of many things, but mostly the things that cannot be easily coded.' and contact information: 'Orthogonal Research and OpenWorm', 'Champaign-Urbana, IL', 'bradly.alicea@outlook.com', and 'http://bradly-alicea.weebly.com'. The 'Organizations' section shows 'Orthogonal Research and OpenWorm'. The 'Overview' tab is active, displaying 'Popular repositories' and a '107 contributions in the last year' calendar. A red arrow points from the text 'work in progress' to the 'microscopy' repository card.

Search or jump to... Pull requests Issues Marketplace Explore

Overview Repositories 57 Projects 1 Stars 0 Followers 16 Following 9

Popular repositories Customize your pins

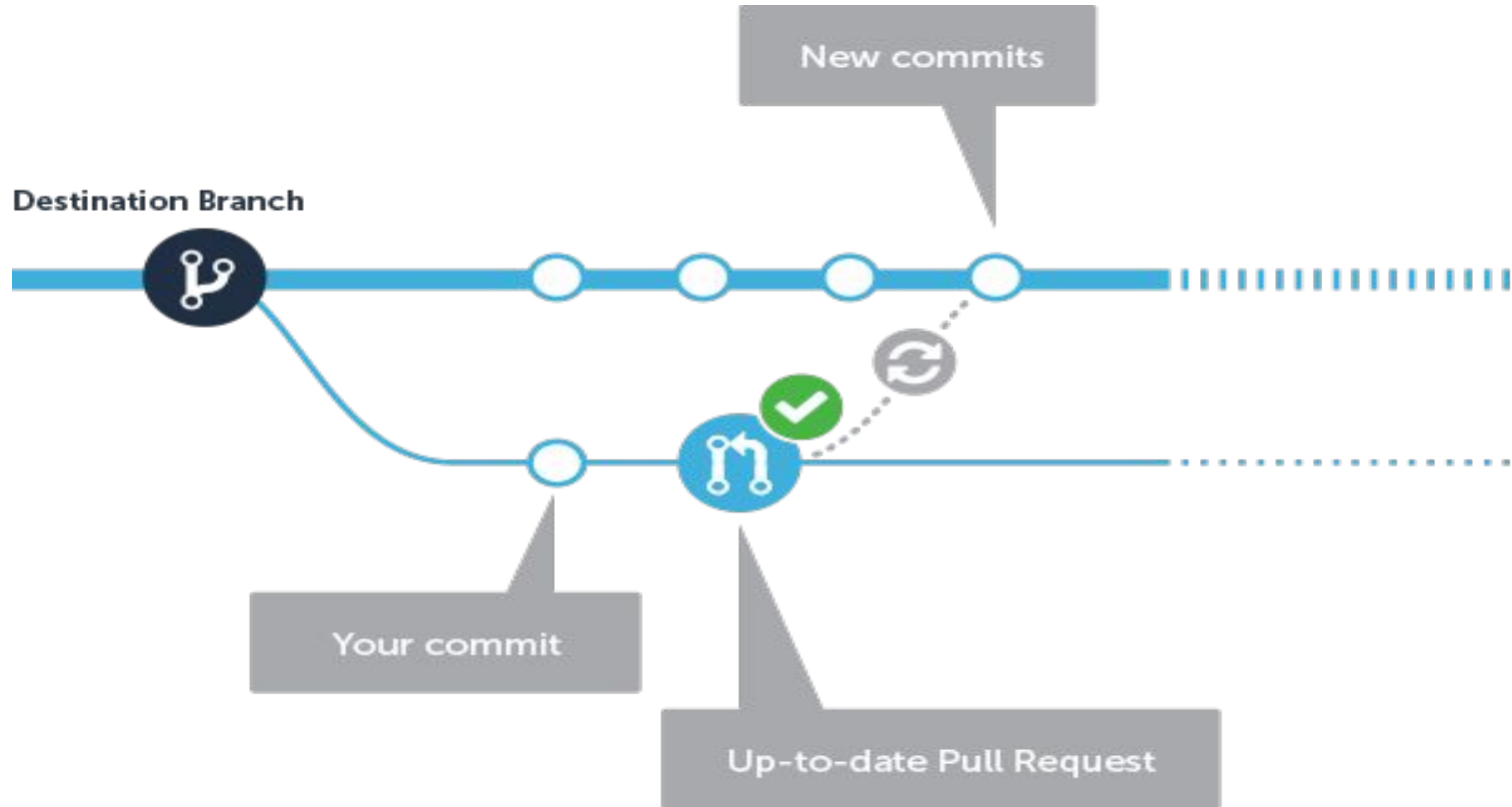
- Stochastic-Resonance-Demos**
Code for demonstrating stochastic resonance in time-series data
MATLAB ★ 3
- neurotech-tutorial**
MATLAB Code for Physiological Measurement (neurotechnology) tutorial
Objective-C ▼ 1
- microscopy**
MATLAB
- DevoWorm**
Code for DevoWorm project
MATLAB ★ 3 ▼ 7
- RNA-discrete-dynamical-modeling**
Linear control model and other computations for the paper "Mechanism Alteration and Cellular Information Processing"
MATLAB
- Divergence-Measures**
Divergence Measures (MATLAB code) for Analysis
MATLAB

107 contributions in the last year Contribution settings

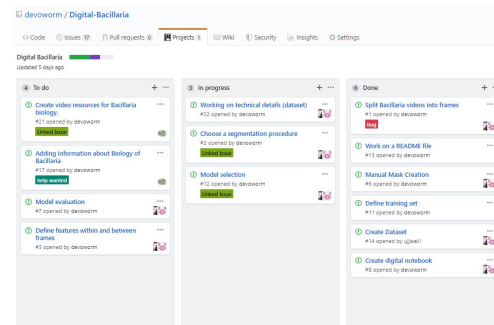
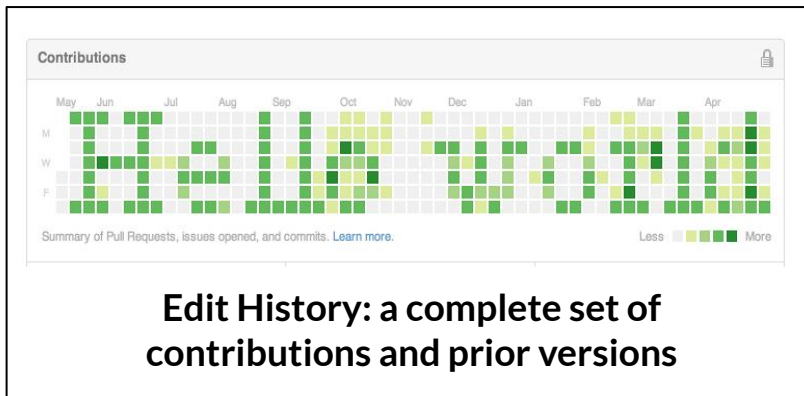
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Mon												
Tue												
Wed												
Thu												
Fri												

Learn how we count contributions. Less More

What is Version Control?

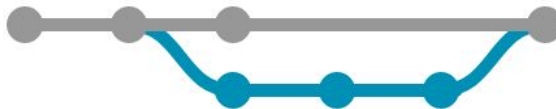


Let's review some concepts

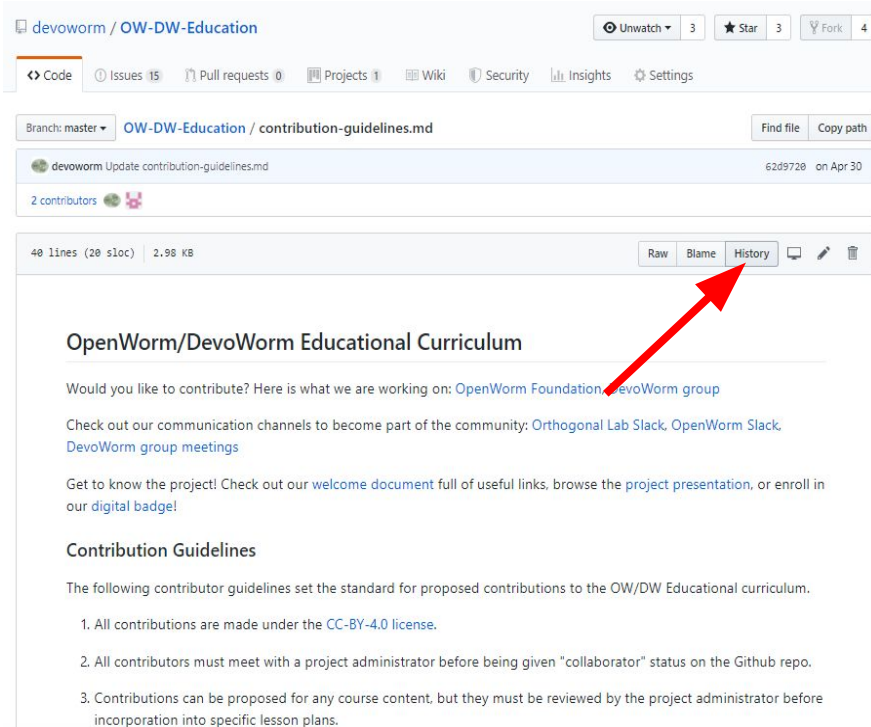


Task and issue management

Branching and merging



Edits (contributions/changes) = COMMITS



The screenshot shows the GitHub interface for the repository 'devoworm / OW-DW-Education'. At the top, there are navigation links for Code, Issues (15), Pull requests (0), Projects (1), Wiki, Security, Insights, and Settings. Below this, the current branch is 'master' and the file path is 'OW-DW-Education / contribution-guidelines.md'. A commit history table shows a single commit by 'devoworm' with the message 'Update contribution-guidelines.md' on April 30. Below the table, there are tabs for 'Raw', 'Blame', and 'History', with a red arrow pointing to the 'History' tab. The main content area displays the text of the 'contribution-guidelines.md' file, including a heading 'OpenWorm/DevoWorm Educational Curriculum' and a list of contribution guidelines.

devoworm / OW-DW-Education

Unwatch 3 Star 3 Fork 4

Code Issues 15 Pull requests 0 Projects 1 Wiki Security Insights Settings

Branch: master OW-DW-Education / contribution-guidelines.md Find file Copy path

Author	Message	Commit Hash	Date
devoworm	Update contribution-guidelines.md	62d9728	on Apr 30

2 contributors

40 lines (20 sloc) 2.98 KB

Raw Blame History

OpenWorm/DevoWorm Educational Curriculum

Would you like to contribute? Here is what we are working on: [OpenWorm Foundation](#), [DevoWorm group](#)

Check out our communication channels to become part of the community: [Orthogonal Lab Slack](#), [OpenWorm Slack](#), [DevoWorm group meetings](#)

Get to know the project! Check out our [welcome document](#) full of useful links, browse the [project presentation](#), or enroll in our [digital badge](#)!

Contribution Guidelines

The following contributor guidelines set the standard for proposed contributions to the OW/DW Educational curriculum.

1. All contributions are made under the [CC-BY-4.0 license](#).
2. All contributors must meet with a project administrator before being given "collaborator" status on the Github repo.
3. Contributions can be proposed for any course content, but they must be reviewed by the project administrator before incorporation into specific lesson plans.

Edits (contributions/changes) = COMMITS

devoworm / OW-DW-Education

Unwatch 3 Star 3 Fork 4

Code Issues 15 Pull requests 0 Projects 1 Wiki Security Insights Settings

Branch: master OW-DW-Education / contribution-guidelines.md Find file Copy path

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OpenWorm/DevoWorm Educational Curriculum

Would you like to contribute? Here is what we are working on: [OpenWorm Foundation](#), [DevoWorm group](#)

Check out our communication channels to become part of the community: [Orthogonal Lab Slack](#), [OpenWorm Slack](#), [DevoWorm group meetings](#)

Get to know the project! Check out our [welcome document](#) full of useful links, browse the [project presentation](#), or enroll in our [digital badge!](#)

Contribution Guidelines

The following contributor guidelines set the standard for proposed contributions to the OW/DW Educational curriculum.

- All contributions are made under the [CC-BY-4.0 license](#).
- All contributors must meet with a project administrator before being given "collaborator" status on the Github repo.
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devoworm / OW-DW-Education

Unwatch 3 Star 3 Fork 4

Code Issues 15 Pull requests 0 Projects 1 Wiki Security Insights Settings

History for OW-DW-Education / contribution-guidelines.md

Commits on Apr 30, 2019

- Update contribution-guidelines.md Verified 62d9728 <>
devoworm committed on Apr 30

Commits on Apr 26, 2019

- Minute changes. Verified 46cc1a4 <>
ujjwall committed on Apr 26

Commits on Apr 12, 2019

- Update contribution-guidelines.md Verified 2bd064 <>
devoworm committed on Apr 12
- Update contribution-guidelines.md Verified 086f71c <>
devoworm committed on Apr 12

Commits on Mar 26, 2019

- Update contribution-guidelines.md Verified e97df8f <>
devoworm committed on Mar 26

Commits on Feb 25, 2019

- Update contribution-guidelines.md Verified 63f3f9a <>
devoworm committed on Feb 25

Edits (contributions/changes) = COMMITS

The screenshot shows the GitHub interface for the repository `devoworm / OW-DW-Education`. At the top, there are navigation tabs: Code, Issues (15), Pull requests (0), Projects, Wiki, Security, Insights, and Settings. Below the navigation, the commit history for the file `contribution-guidelines.md` is displayed. The commits are grouped by date:

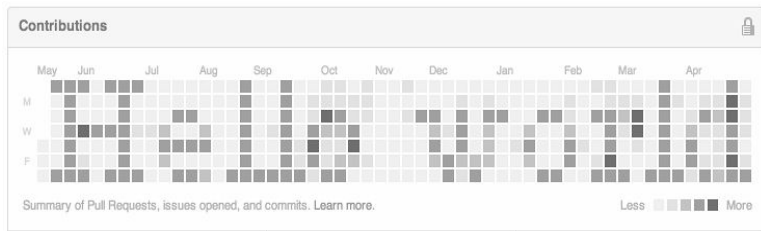
- Commits on Apr 30, 2019:** One commit titled "Update contribution-guidelines.md" by devoworm, committed on Apr 30. The commit hash is 62d9728.
- Commits on Apr 26, 2019:** One commit titled "Minute changes." by ujjiwalli, committed on Apr 26. The commit hash is 46cc1a4.
- Commits on Apr 12, 2019:** Two commits titled "Update contribution-guidelines.md" by devoworm, both committed on Apr 12. The commit hashes are 2bdc064 and 086f71c.
- Commits on Mar 26, 2019:** One commit titled "Update contribution-guidelines.md" by devoworm, committed on Mar 26. The commit hash is e97df8f.
- Commits on Feb 25, 2019:** One commit titled "Update contribution-guidelines.md" by devoworm, committed on Feb 25. The commit hash is 63f3f9a.

Each commit entry includes a "Verified" badge, a file icon, the commit hash, and a code icon. Two red arrows point from the text on the right to the code icons of the commit dated April 26 and the commit dated March 26.

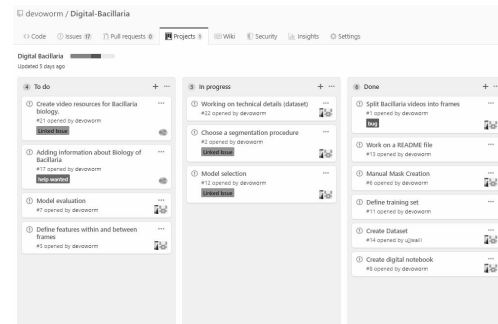
View document changes for this commit (April 26)

View directory at time of this commit (March 26)

Let's review some concepts

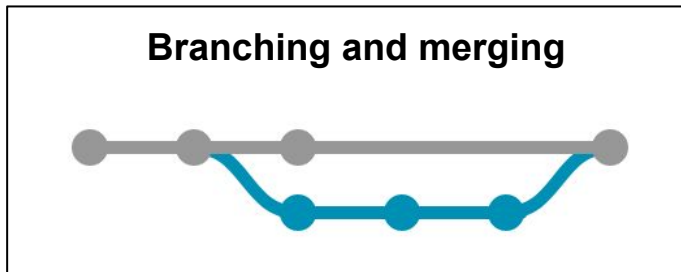


Edit History: a complete set of contributions and prior versions

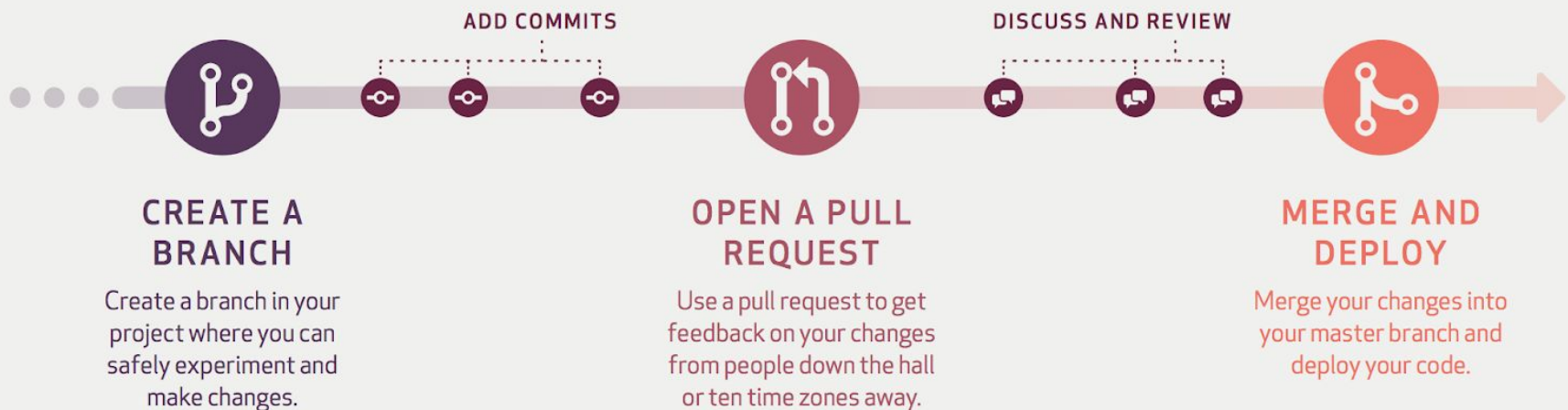


Task and issue management

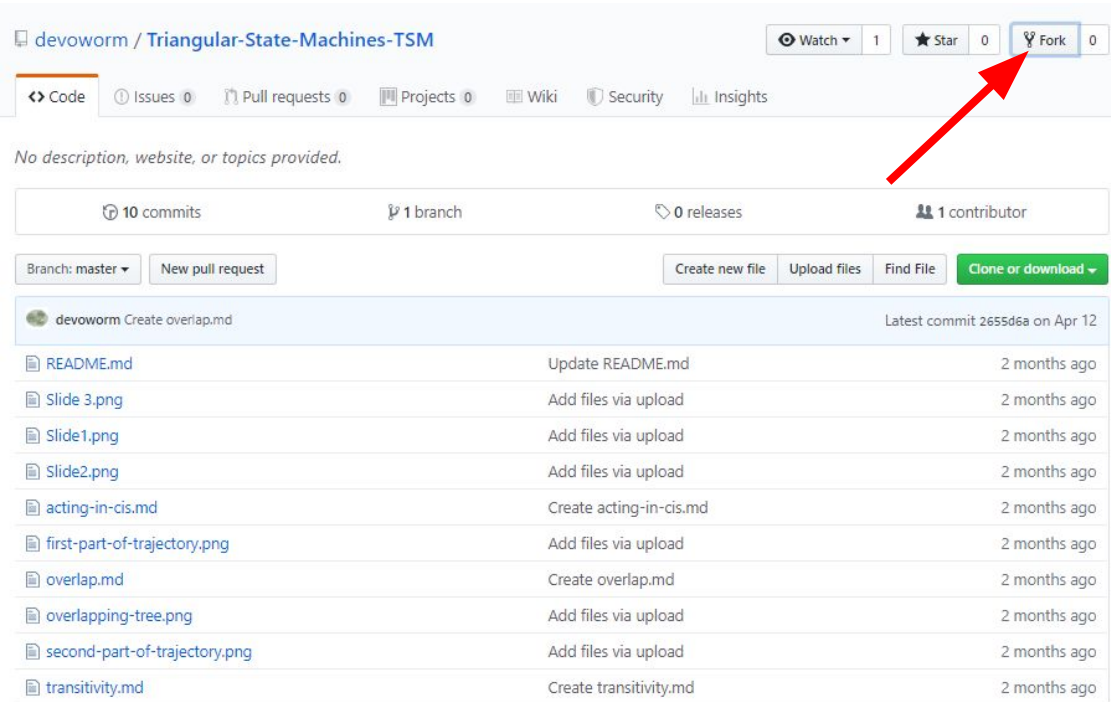
Branching and merging



Branching = FORK, Merging = PULL REQUEST



Branching = FORK, Merging = PULL REQUEST



devoworm / Triangular-State-Machines-TSM

Watch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights

No description, website, or topics provided.

10 commits 1 branch 0 releases 1 contributor

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

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

devoworm / Triangular-State-Machines-TSM

Watch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights

No description, website, or topics provided.

10 commits 1 branch 0 releases 1 contributor

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

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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

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

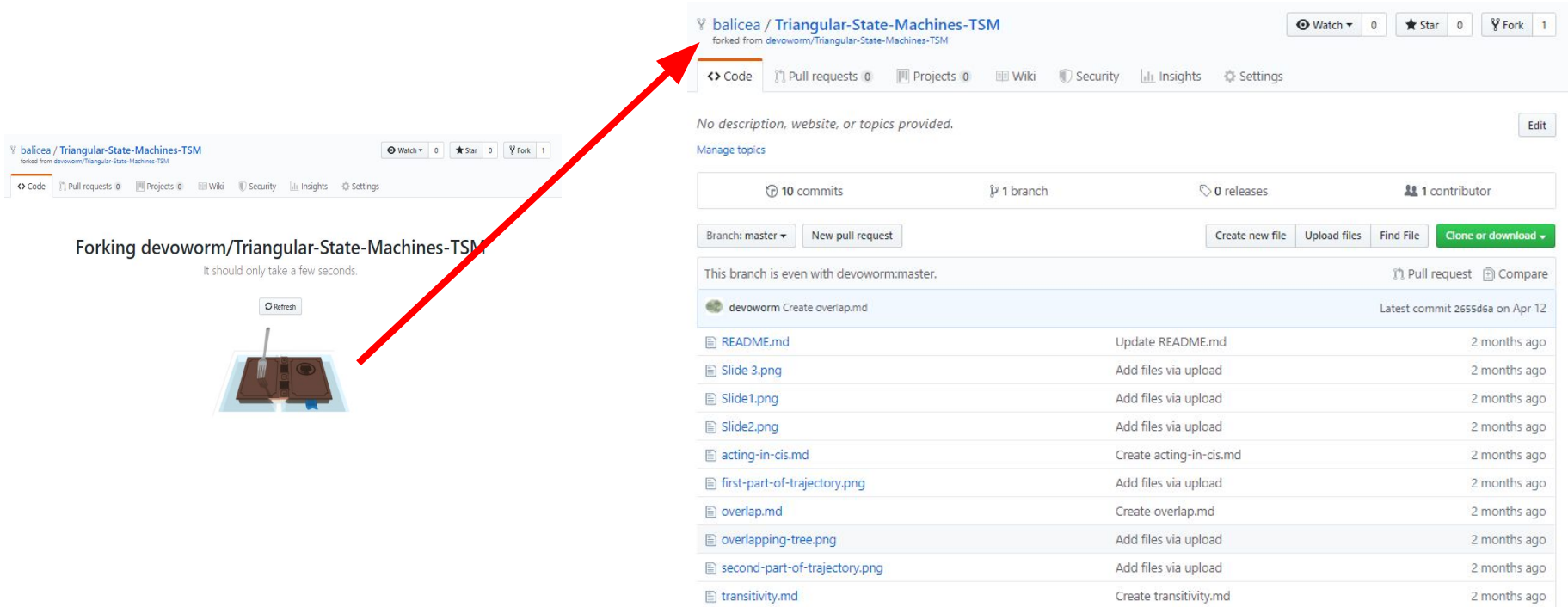
Forking devoworm/Triangular-State-Machines-TSM

It should only take a few seconds.

Refresh



Branching = FORK, Merging = PULL REQUEST



The image shows a GitHub interface. On the left, a smaller screenshot shows the 'Forking devoworm/Triangular-State-Machines-TSM' dialog box with a 'Refresh' button and a fork icon. A red arrow points from this dialog to the main repository page on the right. The main page shows the repository 'balicea / Triangular-State-Machines-TSM' with 1 fork. Below the repository name, there are navigation tabs for Code, Pull requests, Projects, Wiki, Security, Insights, and Settings. The main content area shows 'No description, website, or topics provided.' and 'Manage topics'. Below this, there are statistics: 10 commits, 1 branch, 0 releases, and 1 contributor. A 'New pull request' button is visible. The file list shows the following files and their commit messages:

File	Commit Message	Time
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

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

Filters is:pr is:open Labels 9 Milestones 0

New pull request

Welcome to Pull Requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#).



Branching = FORK, Merging = PULL REQUEST

devoworm / Triangular-State-Machines-TSM

Watch 1 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: devoworm/Triangular-State-M... base: master + head repository: balicea/Triangular-State-Machi... compare: master

✓ Able to merge. These branches can be automatically merged.

Create pull request Discuss and review the changes in this comparison with others.

1 commit 1 file changed 0 commit comments 1 contributor

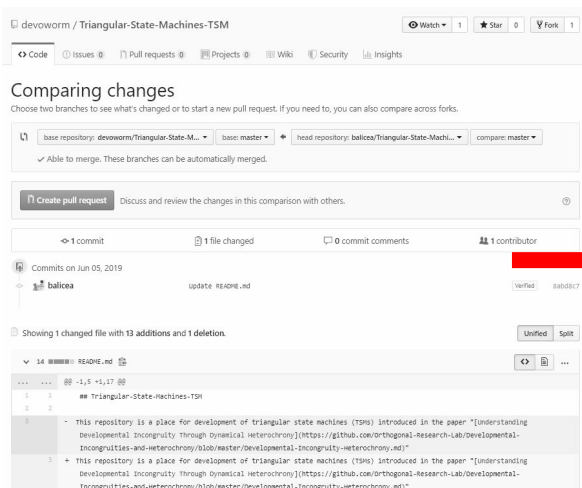
Commits on Jun 05, 2019

balicea Update README.md Verified 8abd8c7

Showing 1 changed file with 13 additions and 1 deletion. Unified Split

```
@@ -1,5 +1,17 @@
1 1 ## Triangular-State-Machines-TSM
2 2
3 - This repository is a place for development of triangular state machines (TSMs) introduced in the paper "[Understanding Developmental Incongruity Through Dynamical Heterochrony](https://github.com/Orthogonal-Research-Lab/Developmental-Incongruities-and-Heterochrony/blob/master/Developmental-Incongruity-Heterochrony.md)"
3 + This repository is a place for development of triangular state machines (TSMs) introduced in the paper "[Understanding Developmental Incongruity Through Dynamical Heterochrony](https://github.com/Orthogonal-Research-Lab/Developmental-Incongruities-and-Heterochrony/blob/master/Developmental-Incongruity-Heterochrony.md)"
```


Branching = FORK, Merging = PULL REQUEST



devoworm / Triangular-State-Machines-TSM

Code Issues Pull requests Projects Wiki Security Insights

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: devoworm/Triangular-State-M... base: master head repository: balicea/Triangular-State-Machi... compare: master

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Create pull request Discuss and review the changes in this comparison with others.

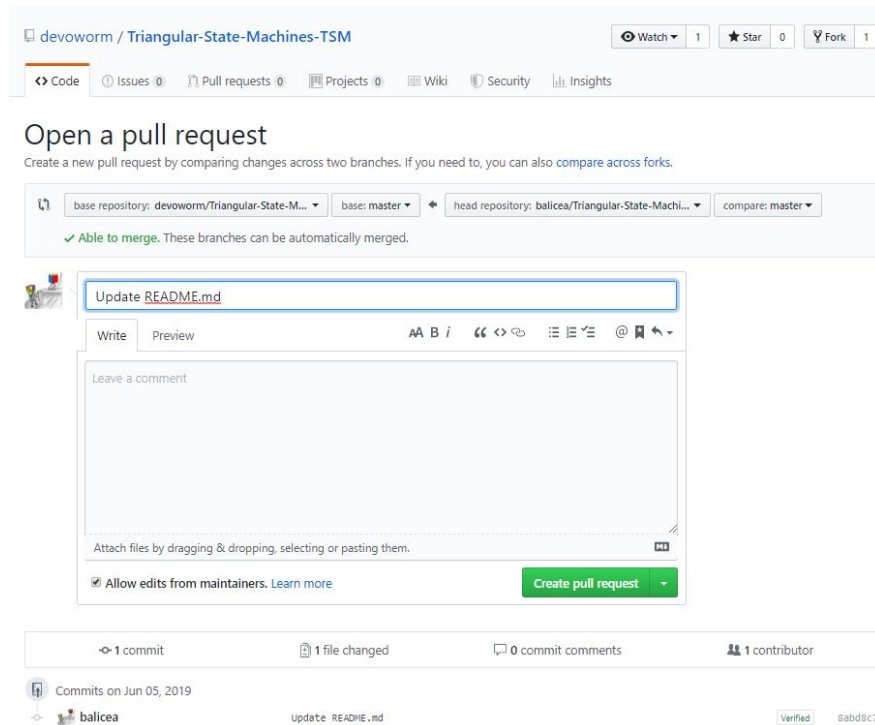
1 commit 1 file changed 0 commit comments 1 contributor

Commits on Jun 05, 2019

balicea update README.md

Showing 1 changed file with 13 additions and 1 deletion.

```
14 README.md
@@ -1,5 +1,17 @@
1 # Triangular-State-Machines-TSM
2
3 - This repository is a place for development of triangular state machines (TSM) introduced in the paper "[Understanding Developmental Incongruity Through Dynamical Heterochrony](https://github.com/orthogonal-research-lab/developmental-incongruities-and-heterochrony/blob/master/developmental-incongruity-heterochrony.md)"
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```



devoworm / Triangular-State-Machines-TSM

Watch 1 Star 0 Fork 1

Code Issues Pull requests Projects Wiki Security Insights


Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base repository: devoworm/Triangular-State-M... base: master head repository: balicea/Triangular-State-Machi... compare: master

✓ Able to merge. These branches can be automatically merged.

Update README.md

Write Preview AA B i 

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

✓ Allow edits from maintainers. [Learn more](#) **Create pull request**

1 commit 1 file changed 0 commit comments 1 contributor

Commits on Jun 05, 2019

balicea update README.md

Verified 8abd9c7

Branching = FORK, Merging = PULL REQUEST

The screenshot shows a GitHub pull request page for the repository 'devoworm / Triangular-State-Machines-TSM'. The title of the pull request is 'Update README.md #1'. It shows that 'balicea' wants to merge 1 commit into 'devoworm:master' from 'balicea:master'. The pull request includes a comment from 'balicea' stating 'No description provided.' and a status bar indicating 'Continuous integration has not been set up' and 'This branch has no conflicts with the base branch'. A 'Merge pull request' button is visible. On the right side, there are sections for 'Reviewers' (listing 'devoworm' with a 'Request' link), 'Assignees', 'Labels', 'Projects', 'Milestone', and 'Notifications'. A red arrow points from the text on the right to the 'Request' link in the Reviewers section.

What pull request looks like to administrator of master repository.

Branching = FORK, Merging = PULL REQUEST

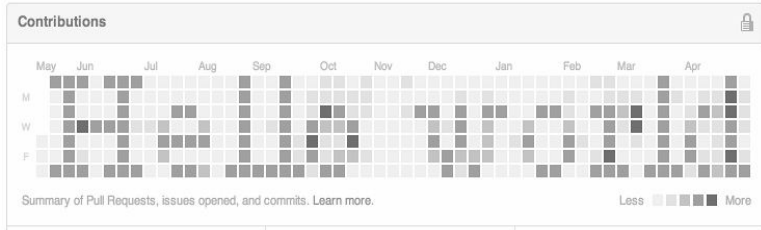
This screenshot shows a GitHub pull request for the repository 'devoworm / Triangular-State-Machines-TSM'. The pull request title is 'Update README.md #1'. It shows that 'balicea' wants to merge 1 commit into 'devoworm:master' from 'balicea:master'. The pull request is currently open. Below the title, there is a 'Conversation' section with a comment from 'balicea' stating 'No description provided.' and a 'Request' button. The right sidebar shows 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), and 'Notifications' (Unsubscribe). At the bottom, there is a 'Write' section with a text area for a comment and a 'Comment' button.



This screenshot shows the GitHub page for the merged commit 'Update README.md #1'. The title is 'Update README.md #1'. It shows that 'devoworm' merged 1 commit into 'devoworm:master' from 'balicea:master' just now. The pull request is now merged. Below the title, there is a 'Conversation' section with a comment from 'balicea' stating 'No description provided.' and a 'Revert' button. The right sidebar shows 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), and 'Notifications' (Unsubscribe). At the bottom, there is a 'Write' section with a text area for a comment and a 'Comment' button.

ProTip! Add `.patch` or `.diff` to the end of URLs for Git's plaintext views.

Let's review some concepts



Edit History: a complete set of contributions and prior versions

The screenshot shows a project management dashboard for "Digital-Bacillaria". It features a navigation bar with links for Code, Issues, Pull requests, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, there are three main columns: "To do", "In progress", and "Done". Each column contains a list of tasks with status indicators and icons. The "To do" column includes tasks like "Create video resources for Bacillaria biology" and "Adding information about Biology of Bacillaria". The "In progress" column includes "Working on technical details (dataset)" and "Choose a segmentation procedure". The "Done" column includes "Split Bacillaria videos into frames" and "Work on a README file".

Task and issue management

Branching and merging



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

devoworm / Digital-Bacillaria

Unwatch 3 Star 1 Fork 2

Code Issues 17 Pull requests 0 Projects 1 Wiki Security Insights Settings

Label issues and pull requests for new contributors
Now, GitHub will help potential first-time contributors discover issues labeled with `help wanted` or `good first issue`

Filters is:issue is:open Labels 9 Milestones 0 New Issue

Issue ID	Issue Title	Status	Created
#17	Hydrodynamic (flow field) analysis	help wanted	opened 3 days ago
#23	Working on technical details (dataset)		opened 5 days ago
#21	Create video resources for Bacillaria biology	Linked Issue	opened 5 days ago
#19	Figures-27-30-SEM-images		opened 10 days ago
#18	Muller, 1792 drawing		opened 10 days ago
#17	Adding information about Biology of Bacillaria	help wanted	opened 12 days ago
#14	Create Dataset		opened 18 days ago
#13	Work on a README file		opened 19 days ago
#12	Model selection	Linked Issue	opened 19 days ago

Issues are IDed
by numbers

Tag each issue
with a status

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

The screenshot shows a GitHub repository page for 'devoworm / GSOC-2019'. The issue title is 'Segmenting brightfield images #11'. The issue is currently 'Open' and was created 5 days ago. The issue description is 'No description provided.' The issue is assigned to 'nvinayvarma189'. The issue is linked to a project 'DevoWorm Summer of Code Project (To do)'. The issue has 2 participants. The issue can be updated with comments.

devoworm / GSOC-2019

Unwatch 4 Star 3 Fork 2

<> Code Issues 8 Pull requests 0 Projects 1 Wiki Security Insights Settings

Segmenting brightfield images #11

Edit New issue

Open devoworm opened this issue 5 days ago · 0 comments

devoworm commented 5 days ago

No description provided.

devoworm created this issue from a note in DevoWorm Summer of Code Project (To do) 5 days ago

devoworm assigned nvinayvarma189 5 days ago

Write Preview

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Close issue Comment

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

devoworm / Digital-Bacillaria

Code Issues 17 Pull requests 0 Projects 1 Wiki Security Insights Settings

Digital Bacillaria Updated 5 days ago

4 To do

- Create video resources for Bacillaria biology. #21 opened by devoworm. **Linked Issue**
- Adding information about Biology of Bacillaria #17 opened by devoworm. **help wanted**
- Model evaluation #7 opened by devoworm
- Define features within and between frames #3 opened by devoworm

3 In progress

- Working on technical details (dataset) #22 opened by devoworm
- Choose a segmentation procedure #2 opened by devoworm. **Linked Issue**
- Model selection #12 opened by devoworm. **Linked Issue**

6 Done

- Split Bacillaria videos into frames #1 opened by devoworm. **bug**
- Work on a README file #13 opened by devoworm
- Manual Mask Creation #6 opened by devoworm
- Define training set #11 opened by devoworm
- Create Dataset #14 opened by ujjwalli
- Create digital notebook #8 opened by devoworm

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

The screenshot shows a GitHub project board for the repository 'devoworm / Digital-Bacillaria'. The board is organized into three columns: 'To do', 'In progress', and 'Done'. Each column contains task cards with titles, issue numbers, and status labels. A red arrow points from the 'Done' column towards the right, highlighting the task 'Split Bacillaria videos into frames'.

devoworm / Digital-Bacillaria

<> Code Issues 17 Pull requests 0 Projects 1 Wiki Security Insights Settings

Digital Bacillaria Updated 5 days ago

4 To do

- Create video resources for Bacillaria biology. #21 opened by devoworm. **Linked Issue**
- Adding information about Biology of Bacillaria. #17 opened by devoworm. **help wanted**
- Model evaluation. #7 opened by devoworm
- Define features within and between frames. #3 opened by devoworm

3 In progress

- Working on technical details (dataset). #22 opened by devoworm
- Choose a segmentation procedure. #2 opened by devoworm. **Linked Issue**
- Model selection. #12 opened by devoworm. **Linked Issue**

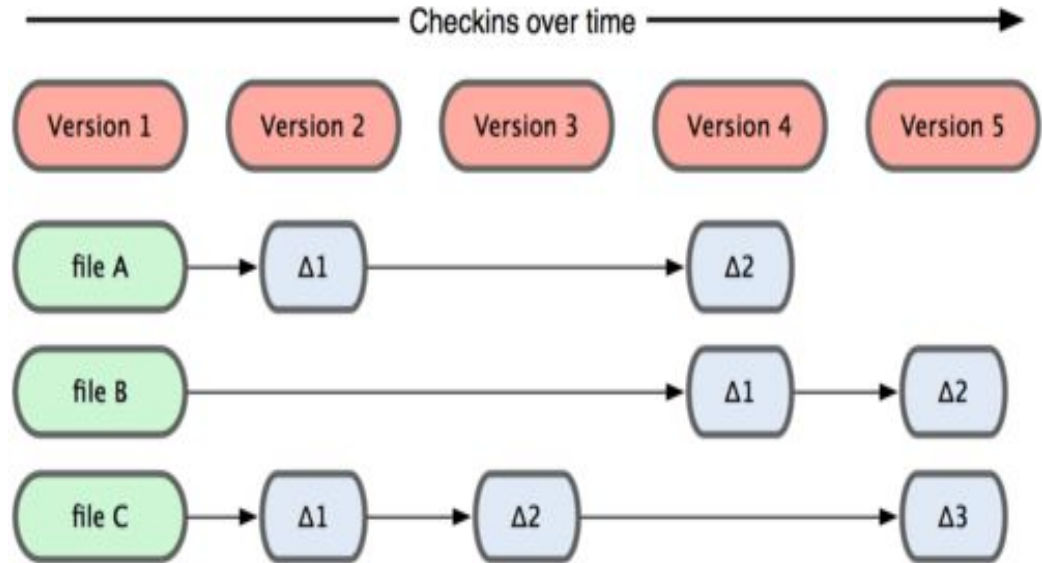
6 Done

- Split Bacillaria videos into frames. #1 opened by devoworm. **bug**
- Work on a README file. #13 opened by devoworm
- Manual Mask Creation. #6 opened by devoworm
- Define training set. #11 opened by devoworm
- Create Dataset. #14 opened by ujjwalli
- Create digital notebook. #8 opened by devoworm

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



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

OSFHOME ▾ My Quick Files My Projects Search Support Donate Bradly Alicea ▾

Virtual Reality and HCI Files Wiki Analytics Registrations Contributors Add-ons Settings

Virtual Reality and HCI Make Private Public P 0 ...

Contributors: Bradly Alicea, Corey Bohil, Frank Blocca, Robert Stone
Date created: 2017-08-22 03:11 PM | Last Updated: 2019-04-27 11:36 PM
Create DOI
Category: Project
Description: Add a brief description to your project
License: Add a license

Has supplemental materials for Targeting in Virtual Workspaces: motor learning consolidates spatial memory for performance clusters on PayA06v ▾

Wiki ↗
Add important information, links, or images here to describe your project.

Files ↗
Click on a storage provider or drag and drop to upload Filter i

Name ▾ ▾	Modified ▾ ▾
OSF Storage (United States)	
Book Chapters	
Papers	
Broad-Spectrum_Mitigation_and_the_Cognit.pdf	2017-08-22 03:18 PM
network-dynamics-attention-naturalistic.pdf	2018-05-14 09:46 AM
Relativistic_virtual_worlds_an_emerging.pdf	2017-08-22 03:18 PM
targeting_virtual_workspaces.pdf	2019-04-27 11:20 PM
The_Foundations_of_Cognition_and_Control.docx	2017-08-22 03:19 PM
Towards_a_theory_of_human_intraspecific.pdf	2017-08-22 03:18 PM
Virtual_reality_in_neuroscience_research.pdf	2017-08-22 03:18 PM

Citation ▾

Components Add Component Link Projects

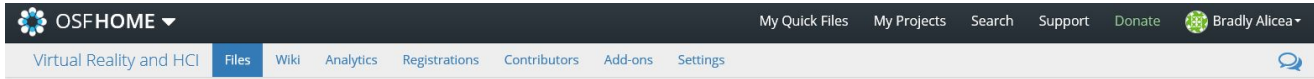
Network Dynamics of Attention During a Naturalistic Behavioral Paradigm ✕ P
Weber, Alicea, Huskey & 1 more
This study investigates the dynamics of attention during continuous, naturalistic interactions in a virtual environment. The data used in this study a...

Tags
brain-science x cybernetics x human-computer interaction x virtual environments x virtual reality x
Add a tag

Recent Activity
Bradly Alicea added file Supplemental Materials/Targeting-Virtual-Workspaces, Supplemental Materials 1.zip to [P&E Overview in Virtual Reality and HCI](#)

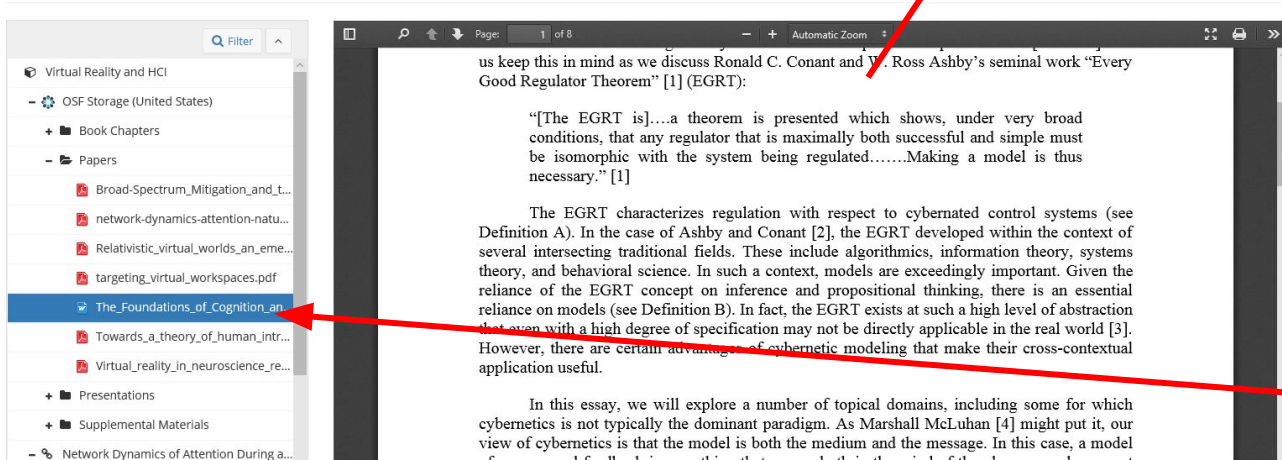


Tasks and Issues = TRACKING, KANBAN, CHECKING IN/OUT



The_Foundations_of_Cognition_and_Control.docx (Version: 1)

Check out | Delete | Download | Share | View | Revisions



Document selected from menu

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The_Foundations_of_Cognition_and_Control.docx (Version: 1)

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Virtual Reality and HCI

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 - targeting_virtual_workspaces.pdf
 - The_Foundations_of_Cognition_and...**
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 - Virtual_reality_in_neuroscience_re...
- Presentations
- Supplemental Materials
- Network Dynamics of Attention During a...

Tags

Add a tag to enhance discoverability

us keep this in mind as we discuss Ronald C. Conant and W. Ross Ashby's seminal work "Every Good Regulator Theorem" [1] (EGRT):

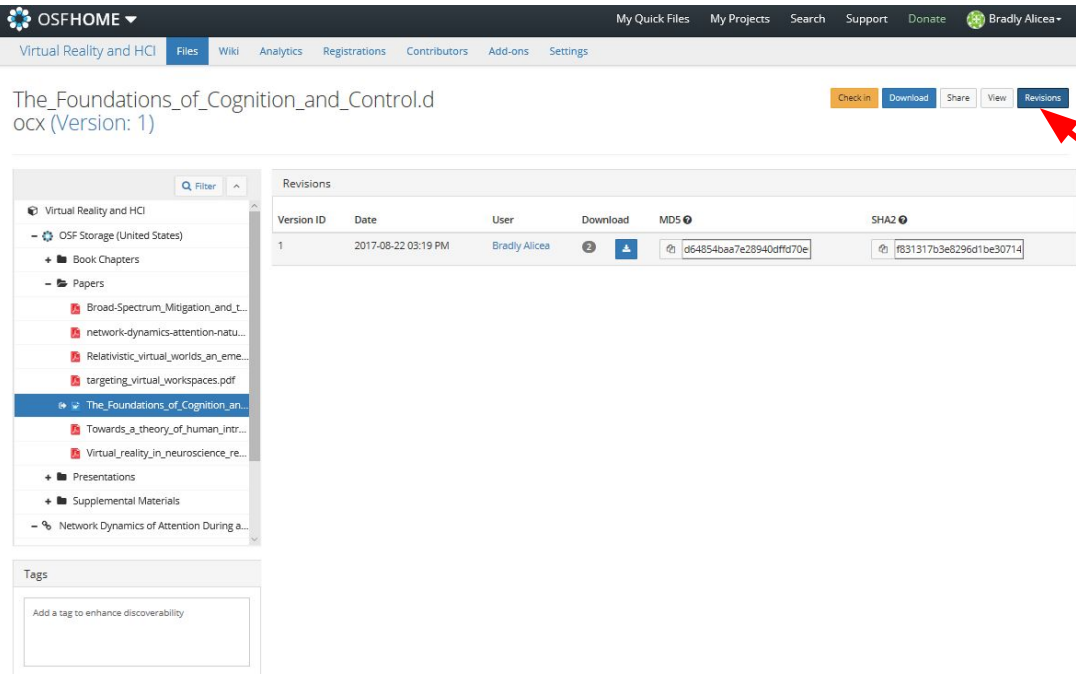
"[The EGRT is]...a theorem is presented which shows, under very broad conditions, that any regulator that is maximally both successful and simple must be isomorphic with the system being regulated.....Making a model is thus necessary." [1]

The EGRT characterizes regulation with respect to cybernated control systems (see Definition A). In the case of Ashby and Conant [2], the EGRT developed within the context of several intersecting traditional fields. These include algorithmics, information theory, systems theory, and behavioral science. In such a context, models are exceedingly important. Given the reliance of the EGRT concept on inference and propositional thinking, there is an essential reliance on models (see Definition B). In fact, the EGRT exists at such a high level of abstraction that even with a high degree of specification may not be directly applicable in the real world [3]. However, there are certain advantages of cybernetic modeling that make their cross-contextual application useful.

In this essay, we will explore a number of topical domains, including some for which cybernetics is not typically the dominant paradigm. As Marshall McLuhan [4] might put it, our view of cybernetics is that the model is both the medium and the message. In this case, a model of process and feedback is something that occurs both in the mind of the observer and amongst the interactions of non-autonomous objects. Stuart Umpleby refers to this as a form of "second-order science" [5], where we consider the observer and their accompanying biases as part of the system. Our vision is a bit less unified than that provided by second-order science, yet nevertheless addresses a conceptual gap in systems science. Whereas the former (something occurring in the mind) may be clearly intentional, the latter (something occurring in nature) is definitely not. The properties of universality inherent in the modeling paradigm (cybernetics) may allow us to understand both of these types of dynamic phenomena in a common context.

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

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



The screenshot displays the OSFHOME interface for a document titled "The Foundations of Cognition and Control.docx (Version: 1)". The document is located within a project named "Virtual Reality and HCI". The interface includes a navigation menu on the left, a main content area, and a "Revisions" table. A red arrow points to the "Revisions" button in the top right corner of the document view.

Virtual Reality and HCI | Files | Wiki | Analytics | Registrations | Contributors | Add-ons | Settings

The Foundations of Cognition and Control.docx (Version: 1) | Check in | Download | Share | View | Revisions

Revisions

Version ID	Date	User	Download	MDS	SHA2
1	2017-08-22 03:19 PM	Bradly Alicea		d64854baa7e28940dff70e	f831317b3e8296d1be30714

Tags

Add a tag to enhance discoverability

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.

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

- subject headings and indices, predefined via consensus.

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* (1989 film), a 1989 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

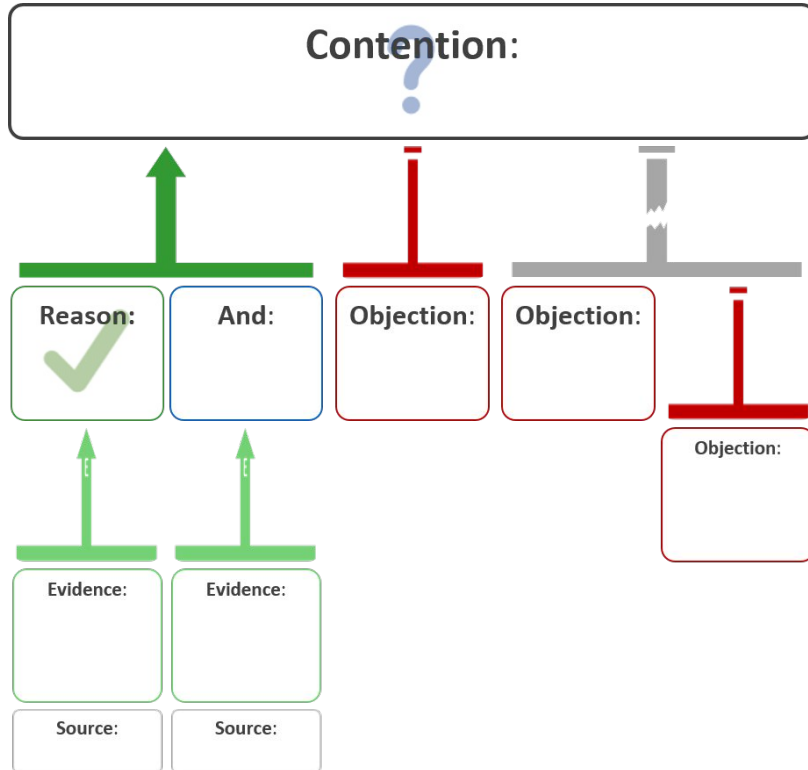
Music [edit]

- *Z* (Akon 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
- WHITZ, 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

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.