The Alan Turing Institute

Collaborative Coding

Federico Nanni

Kaspar Beelen

Ed Chalstrey

Kalle Westerling

Slides adapted from: https://drive.google.com/file/d/1n8vQ9sZ3M6QDxiE24rYE7PXviTKBxOWD/view

Presentation Overview

- Slides and hands-on exercises

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Slido (anonymous):

- www.slido.com
- #4869941

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- Git basics:
  - Commits
  - Branches

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- GitHub basics:
  - Forks
  - Issues and project boards
  - Pull Requests

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- **The Git flow model**

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- Git basics:
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- **The Git flow model**

We will **not** cover:

- Coding and programming examples. Only markdown files.
- Git version control locally on your machine

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The tutorial is based on materials from previous years created by Lydia France and Levan Bokeria (DH&RSE - Cambridge 2023) and Kasra Hosseini, Mariona Coll Ardanuy and Federico Nanni (DH&RSE – Turing 2021)

Part 1: Git and GitHub

Git Version Control – the basics

- **Version control**, or source control, involves tracking and managing changes to code.

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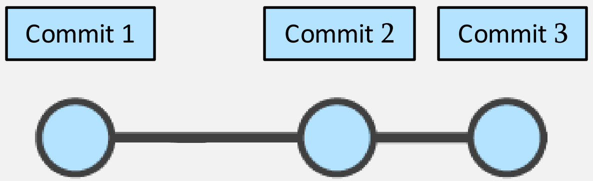

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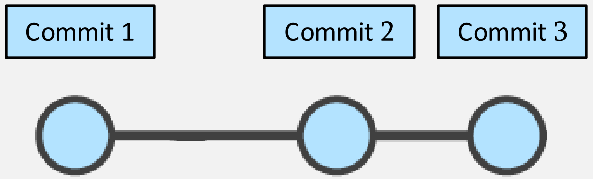

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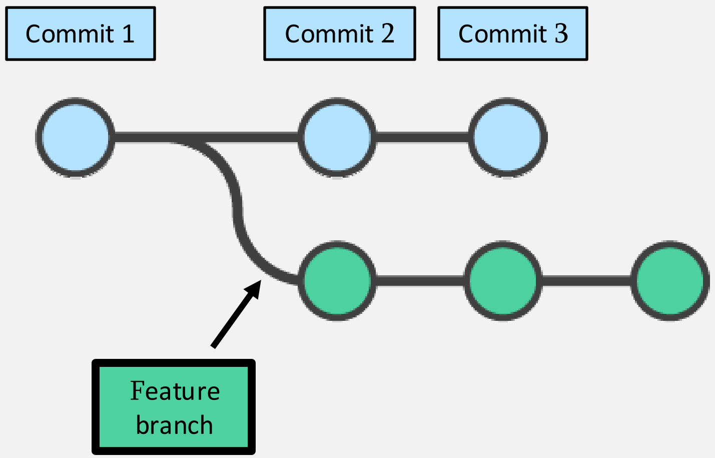

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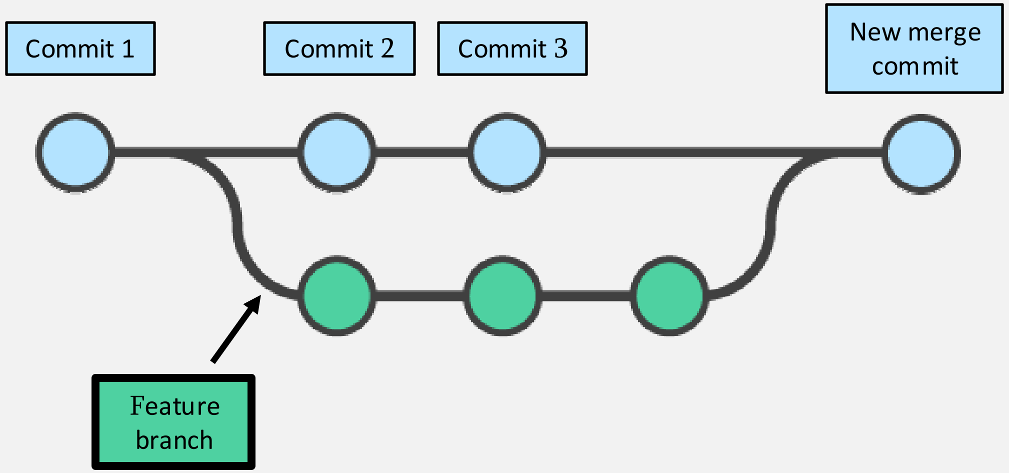

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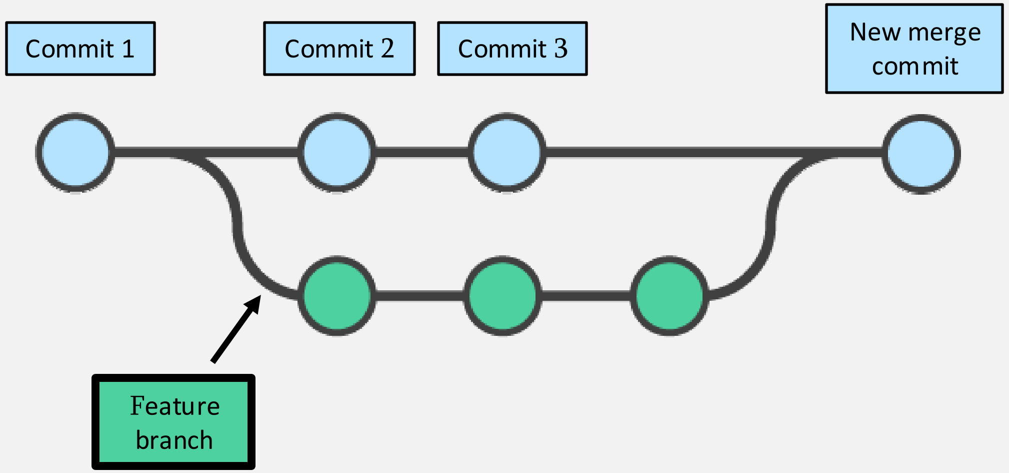
- **Merging branches**: fusing of code from two different branches, usually done via a ”pull request” (also known as a “merge request”)



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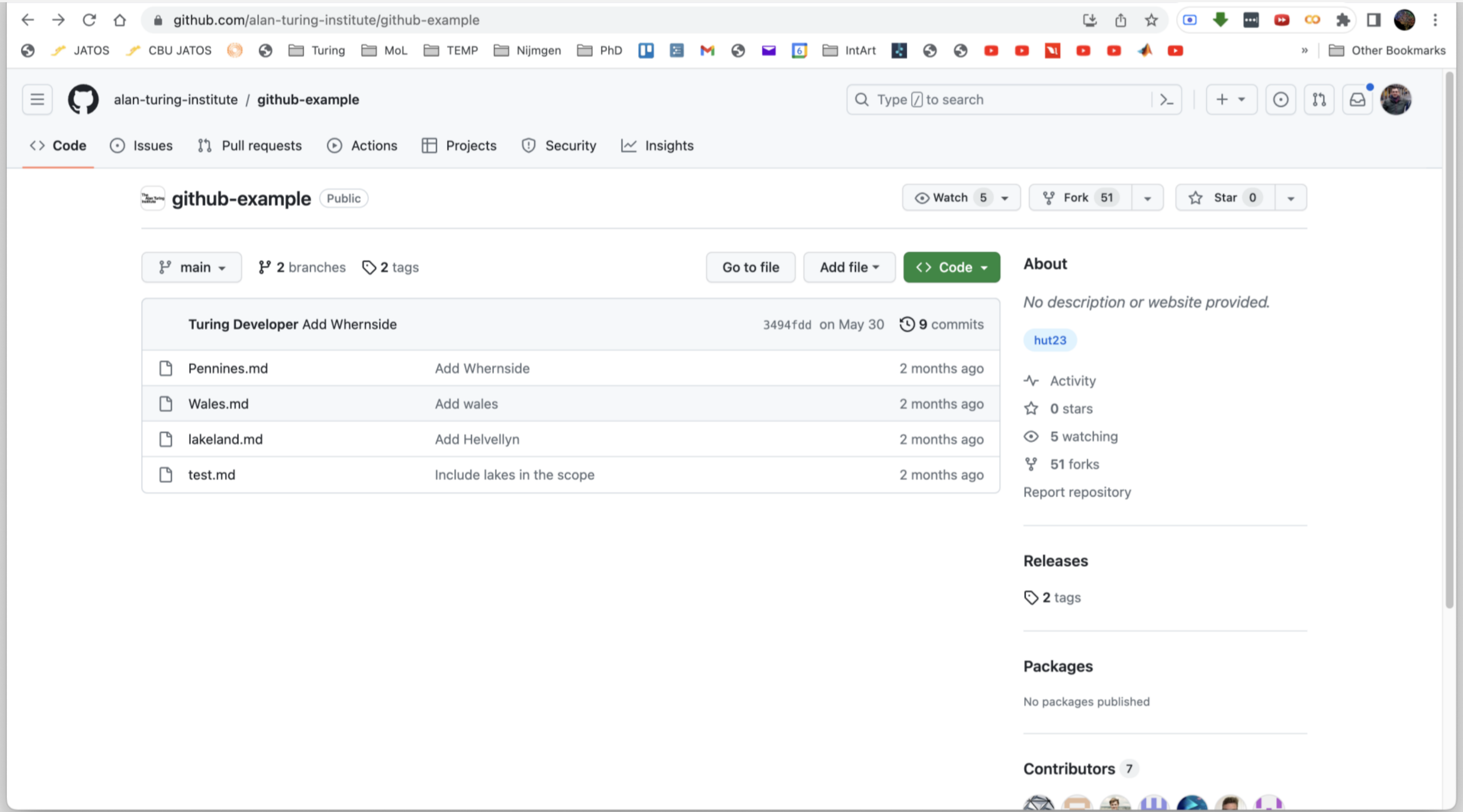

github-example Public

Turing Developer Add Whernside 3494fdd on May 30 9 commits

Pennines.md	Add Whernside	2 months ago
Wales.md	Add wales	2 months ago
lakeland.md	Add Helvellyn	2 months ago
test.md	Include lakes in the scope	2 months ago

About

No description or website provided.

hut23

Activity

0 stars

5 watching

51 forks

Report repository

Releases

2 tags

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No packages published

Contributors 7

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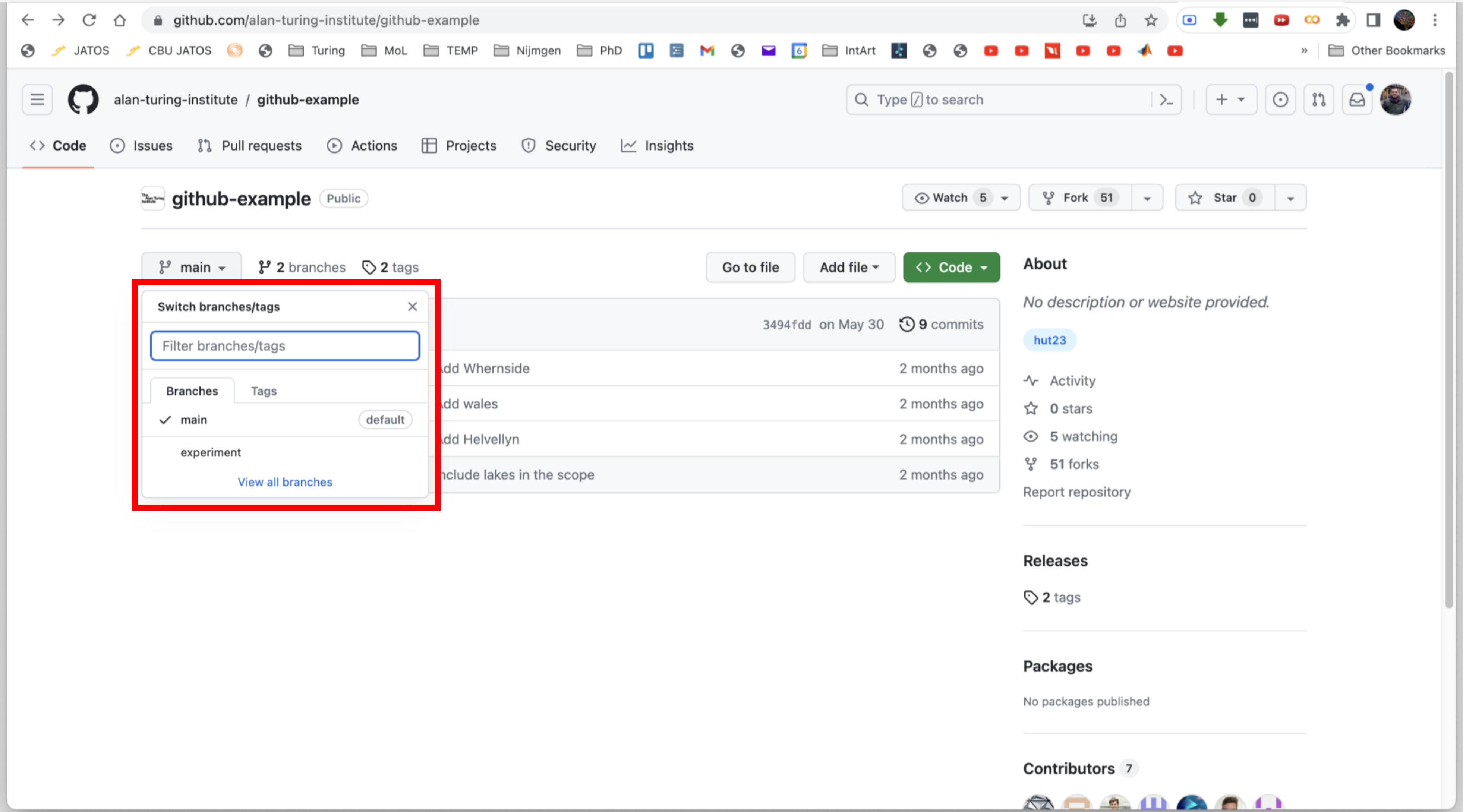

github.com/alan-turing-institute/github-example

alan-turing-institute / github-example

github-example Public

main · 2 branches · 2 tags

Switch branches/tags

Filter branches/tags

Branches | Tags

✓ main default

experiment

View all branches

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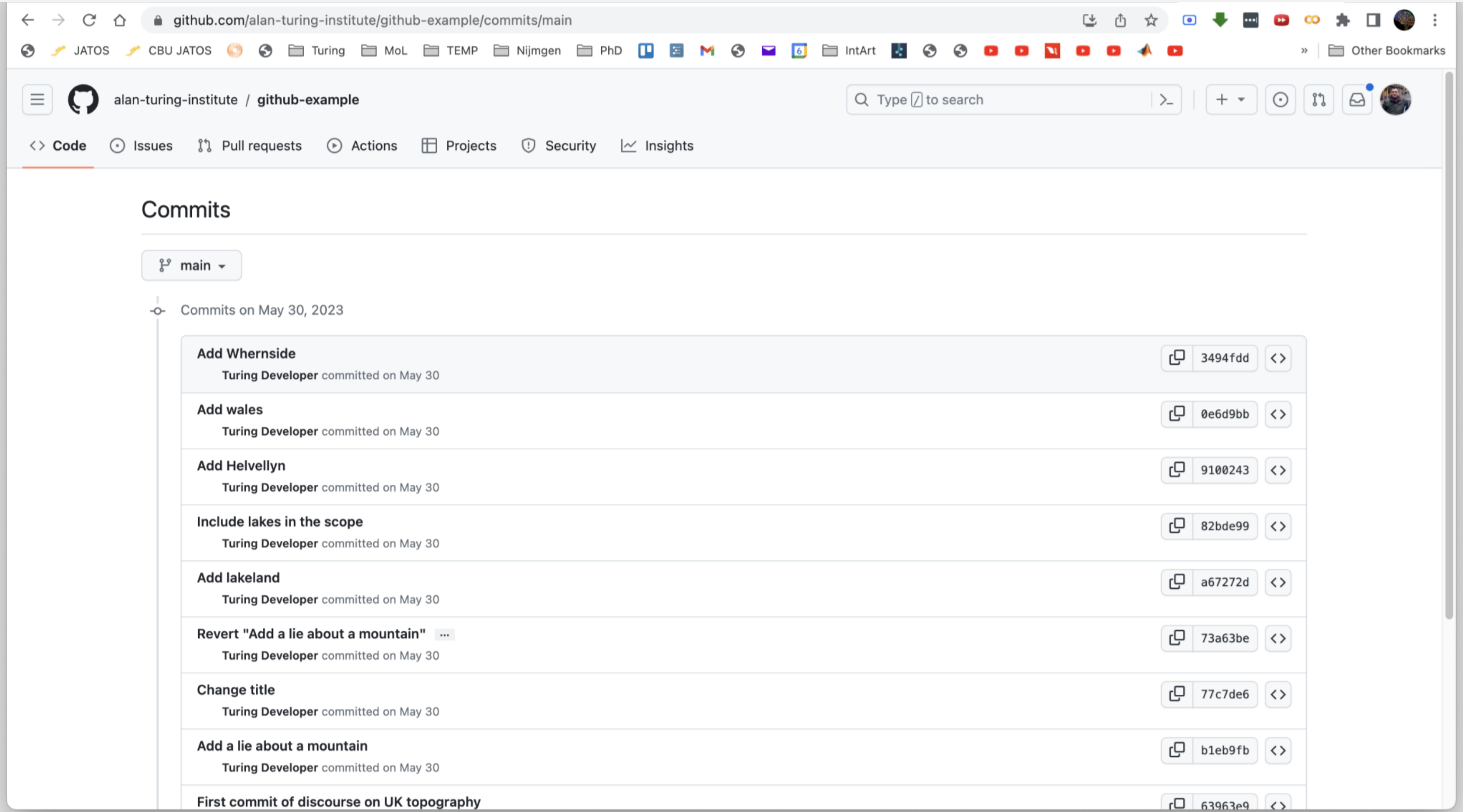

github.com/alan-turing-institute/github-example/commits/main

alan-turing-institute / github-example

Commits

main

Commits on May 30, 2023

Add Whernside
Turing Developer committed on May 30 — 3494fdd

Add wales
Turing Developer committed on May 30 — 0e6d9bb

Add Helvellyn
Turing Developer committed on May 30 — 9100243

Include lakes in the scope
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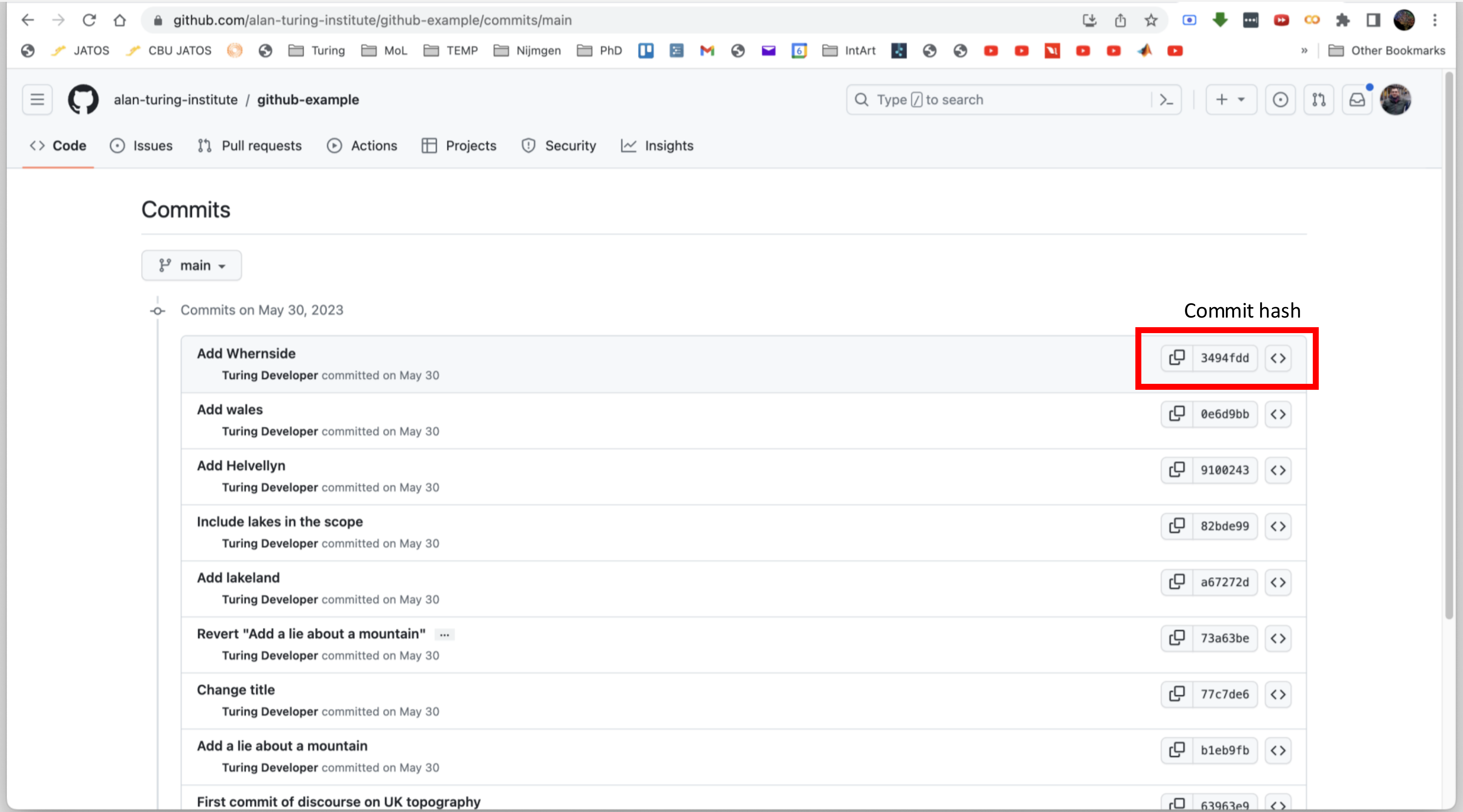

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Commits on May 30, 2023

Commit hash

Add Whernside Turing Developer committed on May 30	3494fdd
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Hands on part 1/2:

- Pairs of 2 people:
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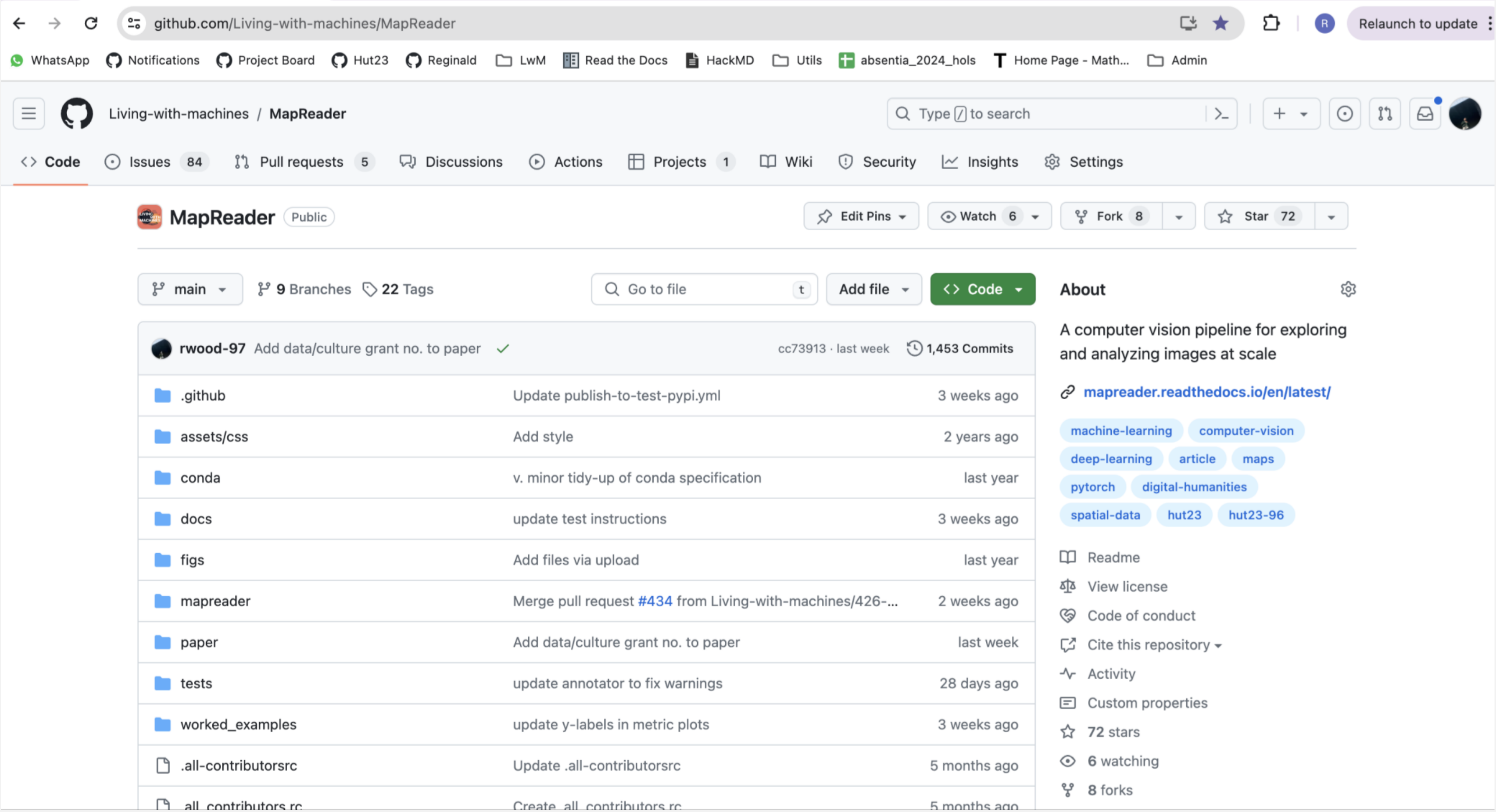
- Topics covered:
  - Forking a repo
  - Creating an Issue
  - Creating a Project board to track issues.
- Link to the step-by-step instructions document
  - Complete sections: Fork, Commit, Collaborate, Kanban board, Issues.

Part 2: Git flow framework for collaboration

GitHub - a more complex example:



rwood-97 Add data/culture grant no. to paper ✓ cc73913 · last week 1,453 Commits

.github	Update publish-to-test-pypi.yml	3 weeks ago
assets/css	Add style	2 years ago
conda	v. minor tidy-up of conda specification	last year
docs	update test instructions	3 weeks ago
figs	Add files via upload	last year
mapreader	Merge pull request #434 from Living-with-machines/426-...	2 weeks ago
paper	Add data/culture grant no. to paper	last week
tests	update annotator to fix warnings	28 days ago
worked_examples	update y-labels in metric plots	3 weeks ago
.all-contributorsrc	Update .all-contributorsrc	5 months ago
.all_contributors.rc	Create .all_contributors.rc	5 months ago

About

A computer vision pipeline for exploring and analyzing images at scale

mapreader.readthedocs.io/en/latest/

machine-learning computer-vision deep-learning article maps pytorch digital-humanities spatial-data hut23 hut23-96

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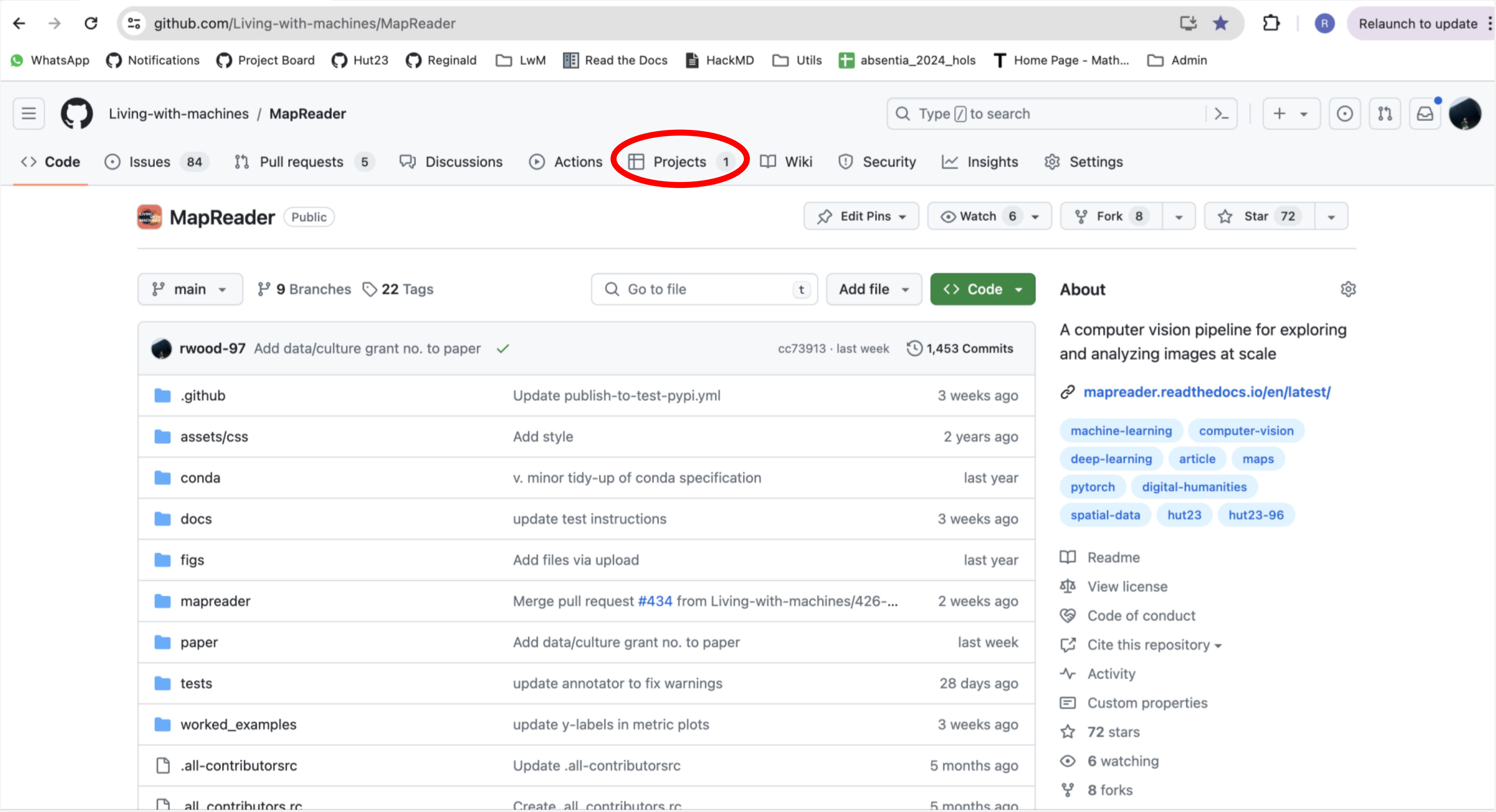

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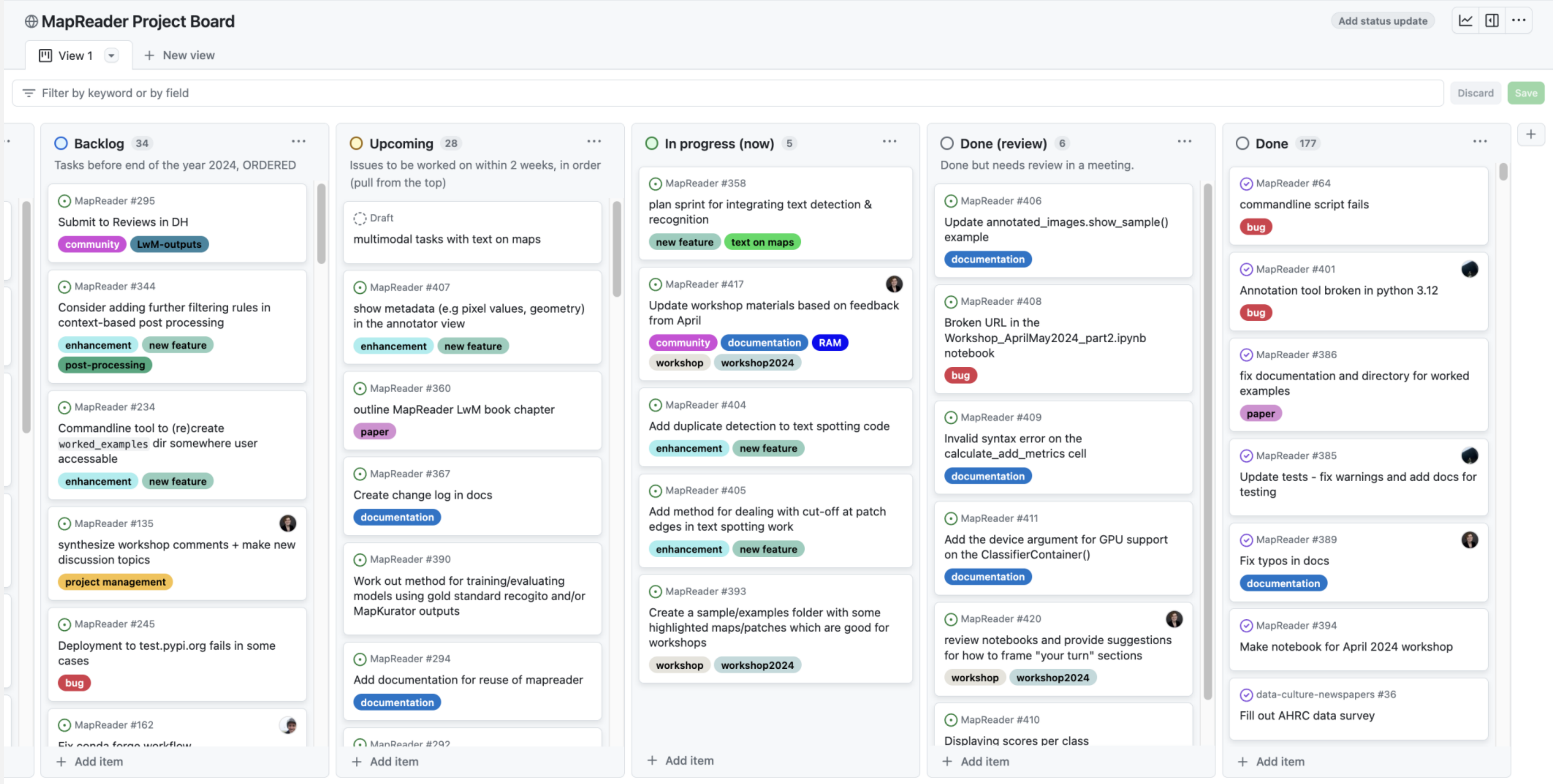
GitHub – Kanban style project boards



MapReader Project Board

Add status update

View 1 · + New view

Filter by keyword or by field · Discard · Save

Backlog 34

Tasks before end of the year 2024, ORDERED

- MapReader #295 — Submit to Reviews in DH — community, LwM-outputs
- MapReader #344 — Consider adding further filtering rules in context-based post processing — enhancement, new feature, post-processing
- MapReader #234 — Commandline tool to (re)create `worked_examples` dir somewhere user accessable — enhancement, new feature
- MapReader #135 — synthesize workshop comments + make new discussion topics — project management
- MapReader #245 — Deployment to test.pypi.org fails in some cases — bug
- MapReader #162 — Fix conda forge workflow

+ Add item

Upcoming 28

Issues to be worked on within 2 weeks, in order (pull from the top)

- Draft — multimodal tasks with text on maps
- MapReader #407 — show metadata (e.g pixel values, geometry) in the annotator view — enhancement, new feature
- MapReader #360 — outline MapReader LwM book chapter — paper
- MapReader #367 — Create change log in docs — documentation
- MapReader #390 — Work out method for training/evaluating models using gold standard recogito and/or MapKurator outputs
- MapReader #294 — Add documentation for reuse of mapreader — documentation
- MapReader #292

+ Add item

In progress (now) 5

- MapReader #358 — plan sprint for integrating text detection & recognition — new feature, text on maps
- MapReader #417 — Update workshop materials based on feedback from April — community, documentation, RAM, workshop, workshop2024
- MapReader #404 — Add duplicate detection to text spotting code — enhancement, new feature
- MapReader #405 — Add method for dealing with cut-off at patch edges in text spotting work — enhancement, new feature
- MapReader #393 — Create a sample/examples folder with some highlighted maps/patches which are good for workshops — workshop, workshop2024

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Done (review) 6

Done but needs review in a meeting.

- MapReader #406 — Update annotated_images.show_sample() example — documentation
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Done 177

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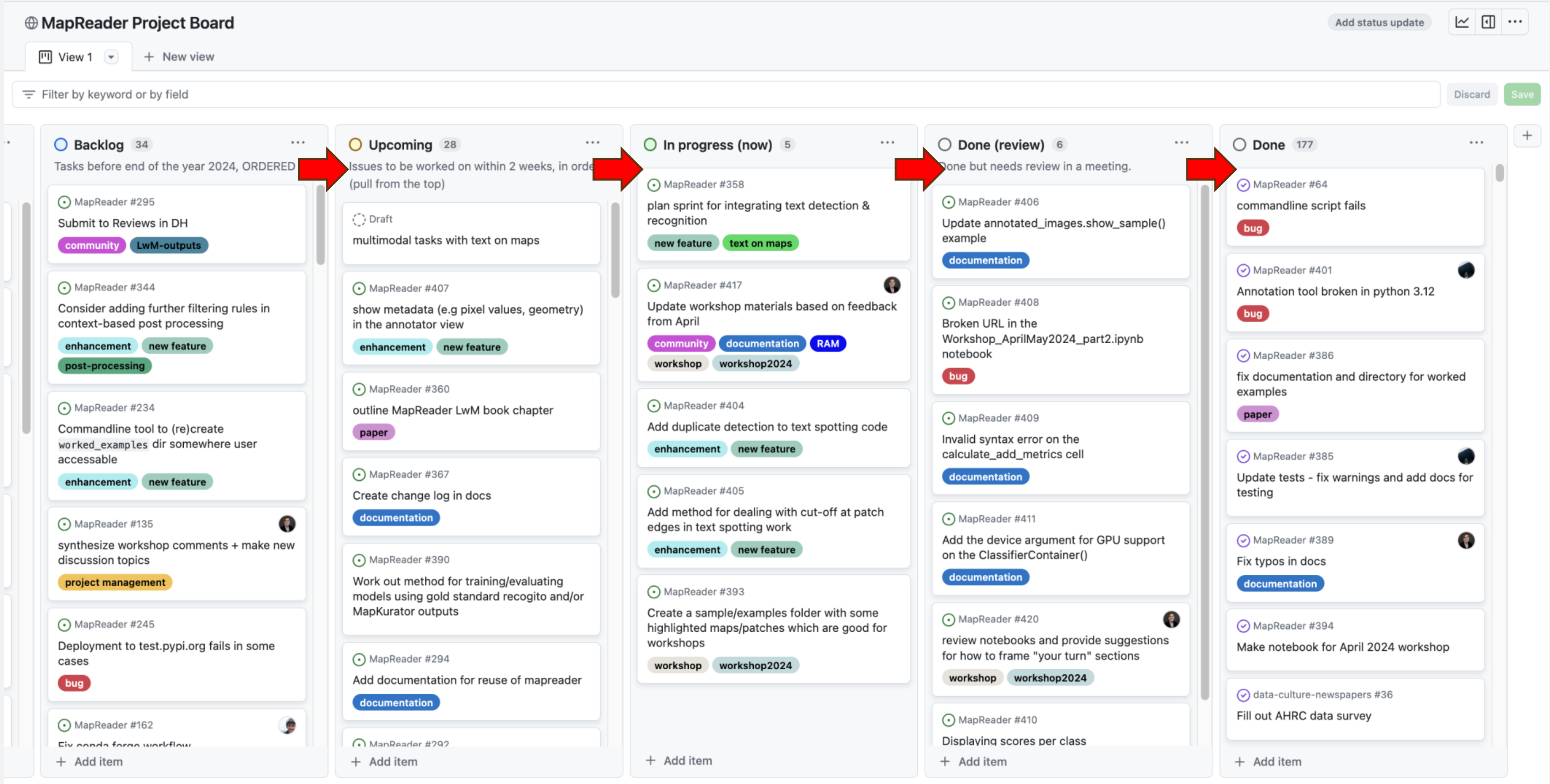

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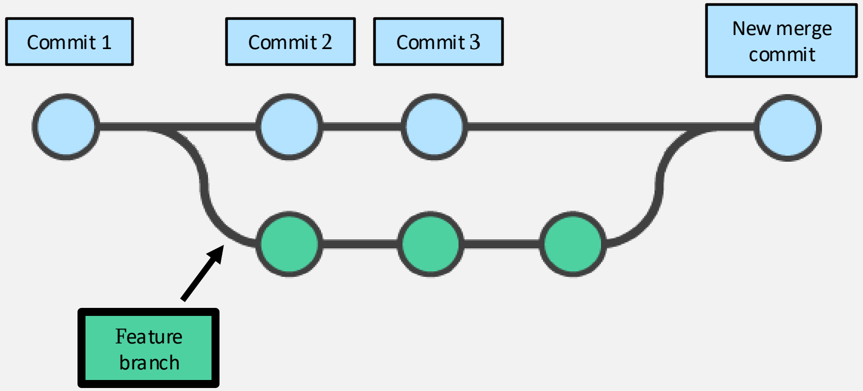

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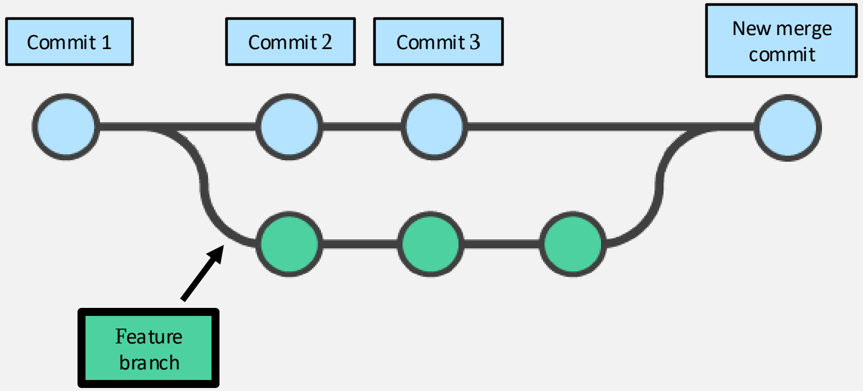

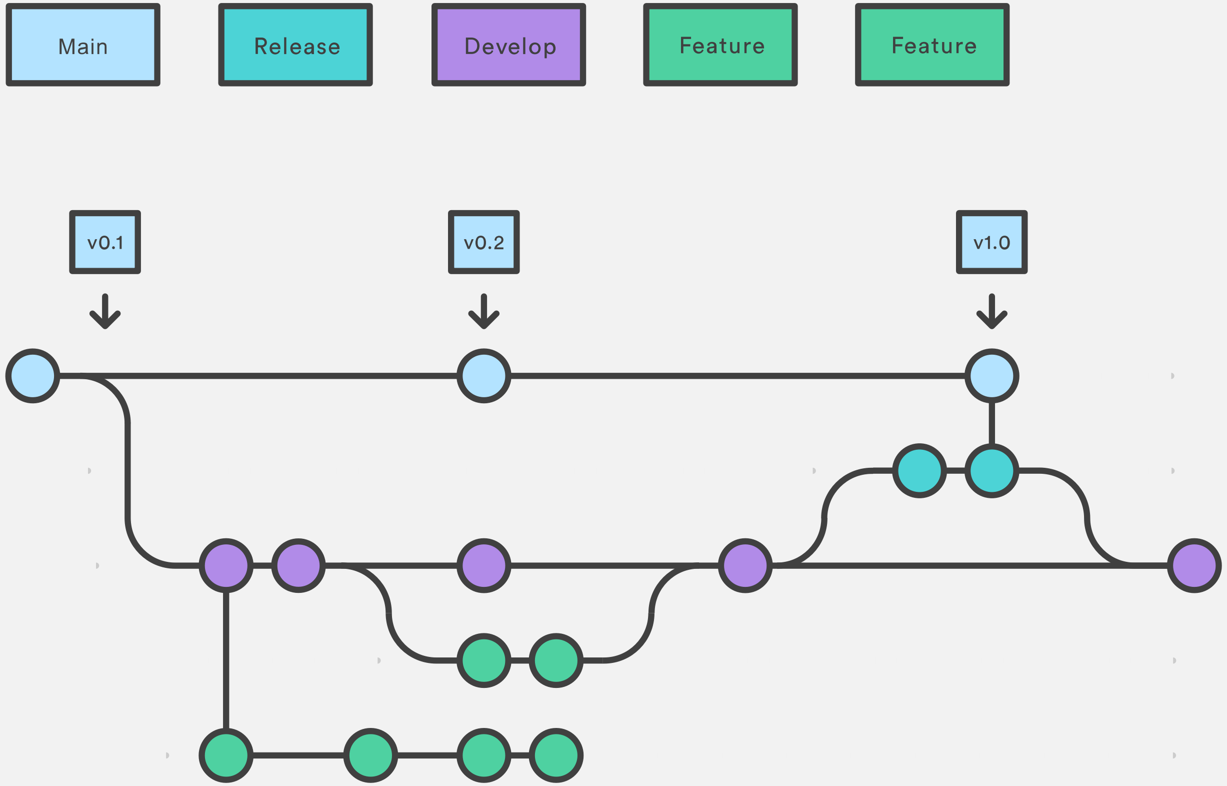

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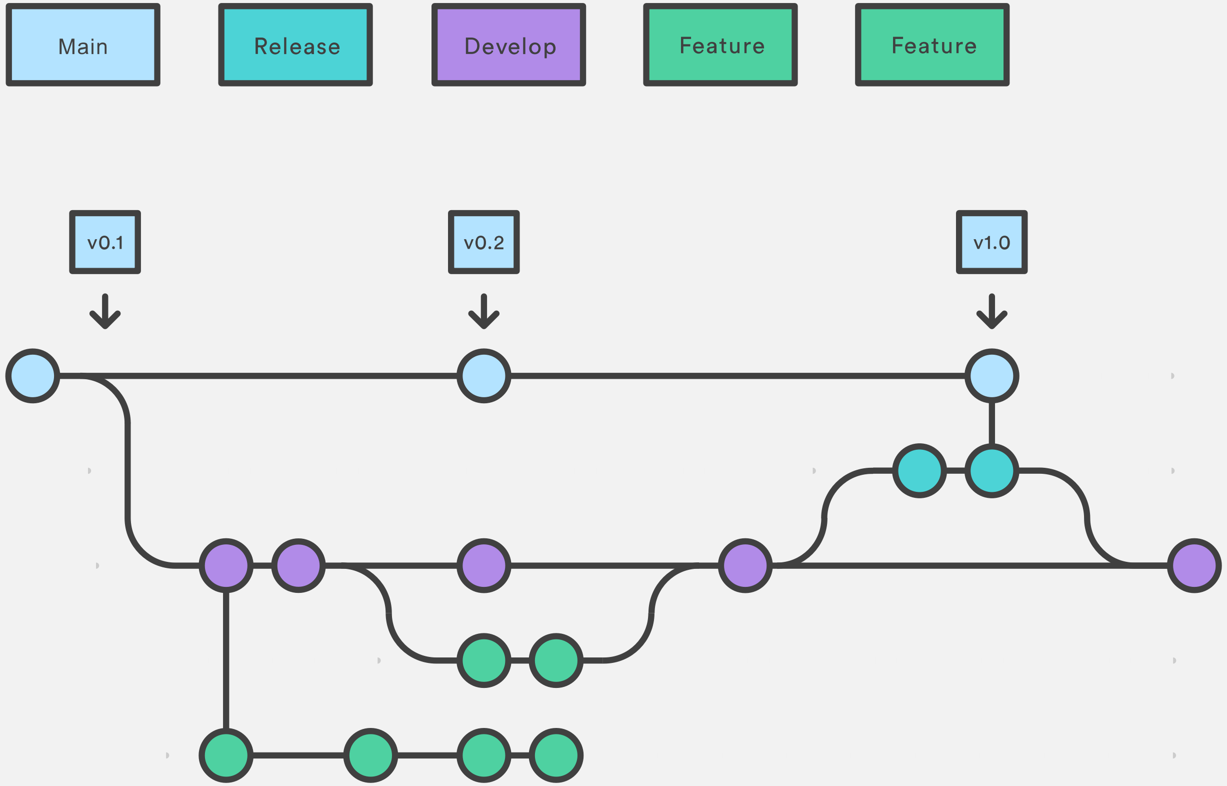

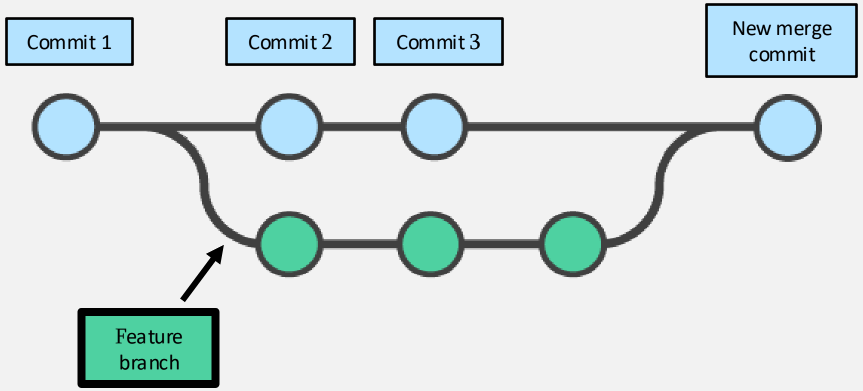

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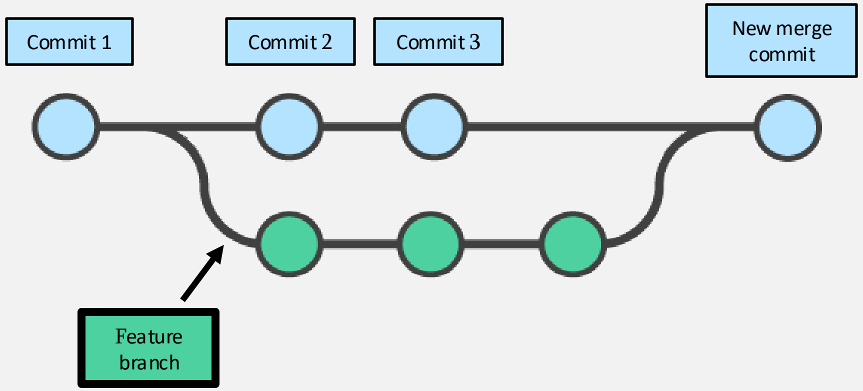

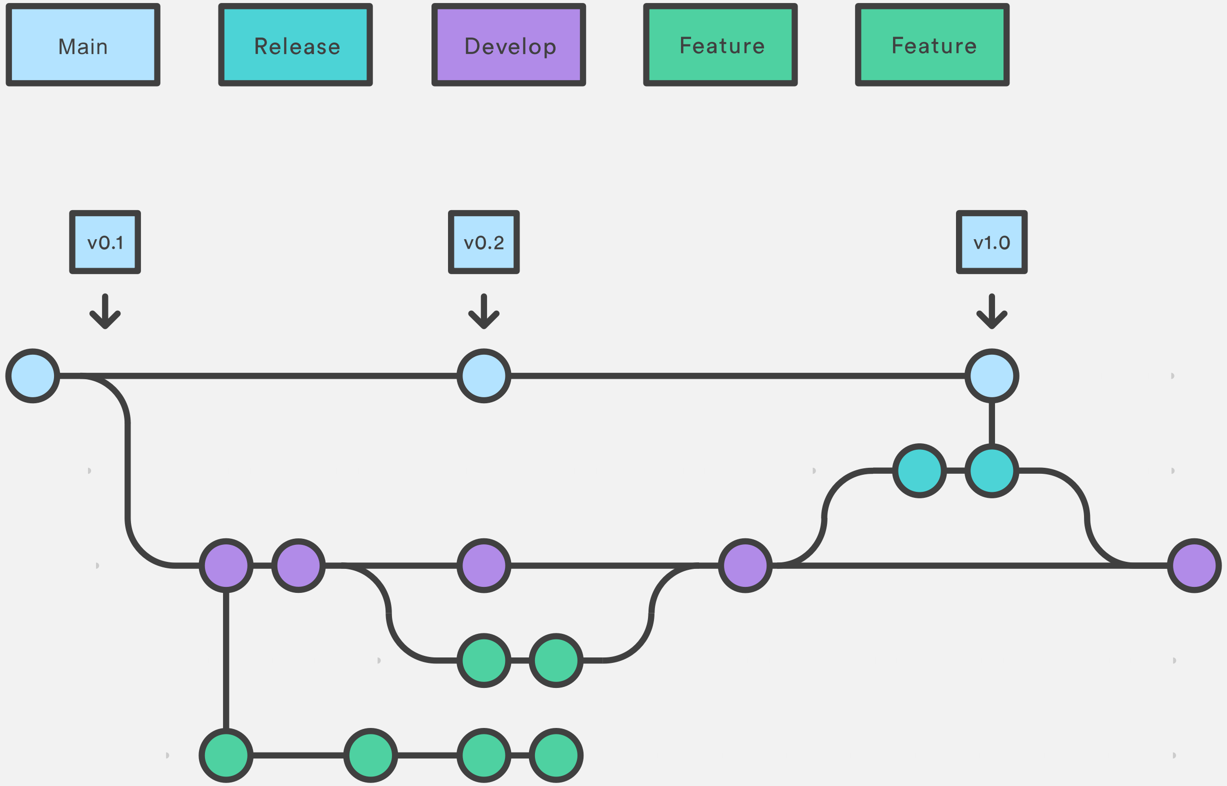

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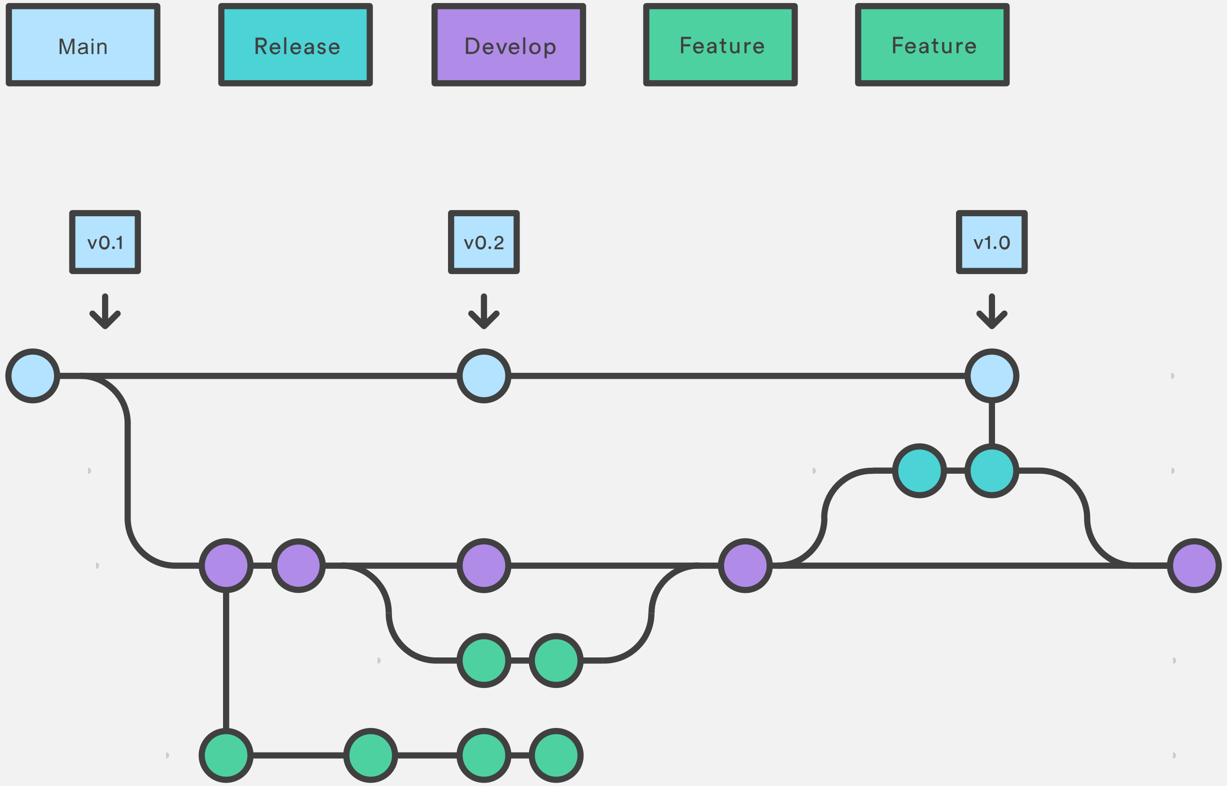

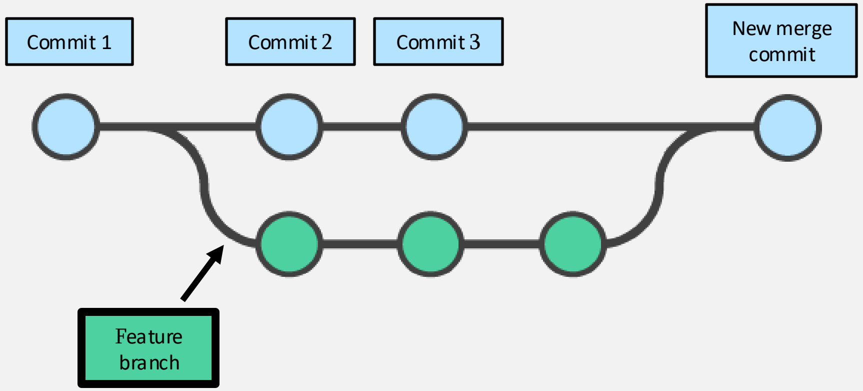

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Git flow for collaboration

- A Git workflow
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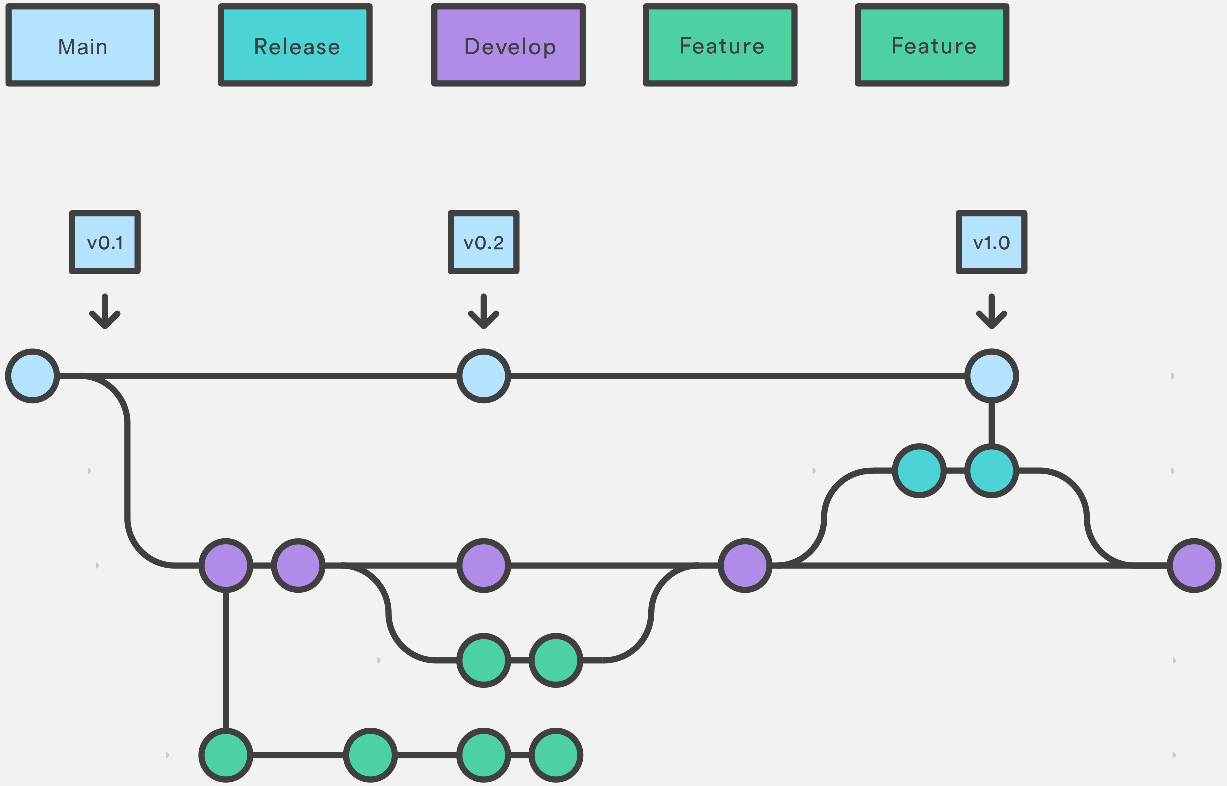
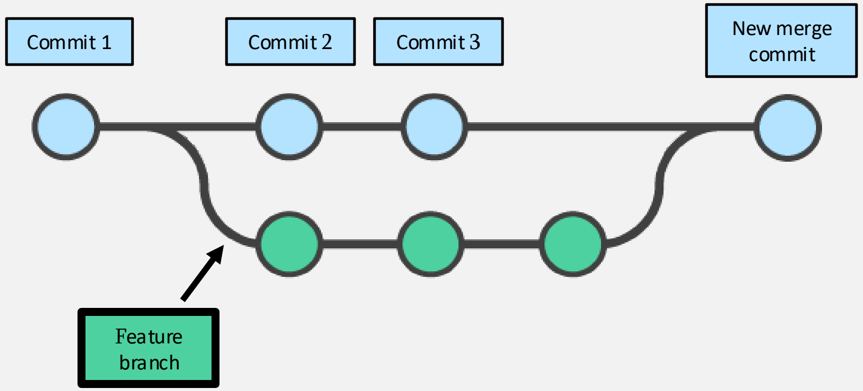
  - Specific roles to different branches
  - How and when they should interact
- Not the only workflow
  - e.g. GitHub workflow for continuous delivery





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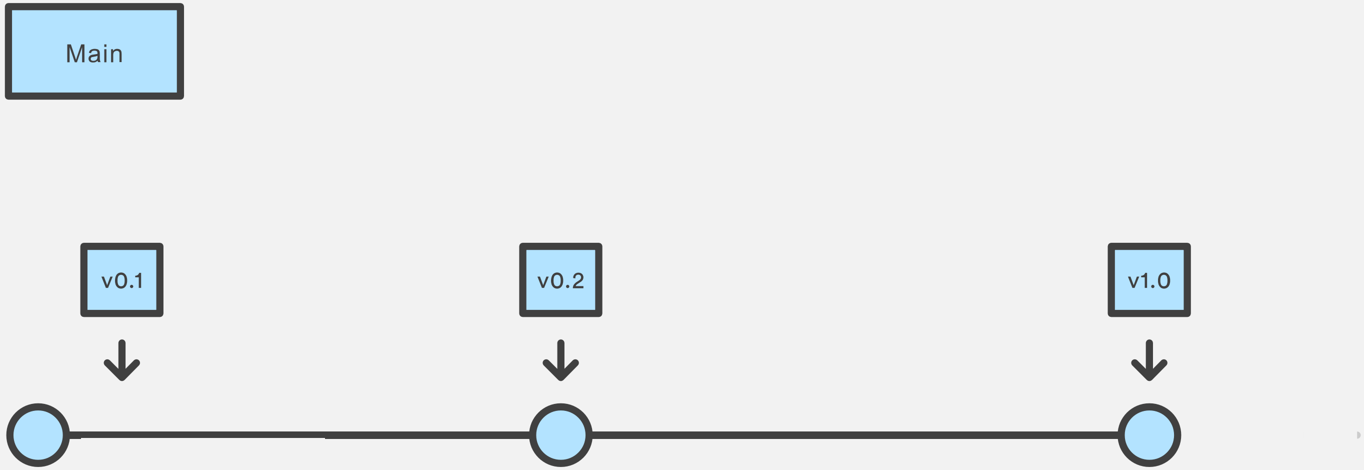
  1. ”Main” branch: release history.



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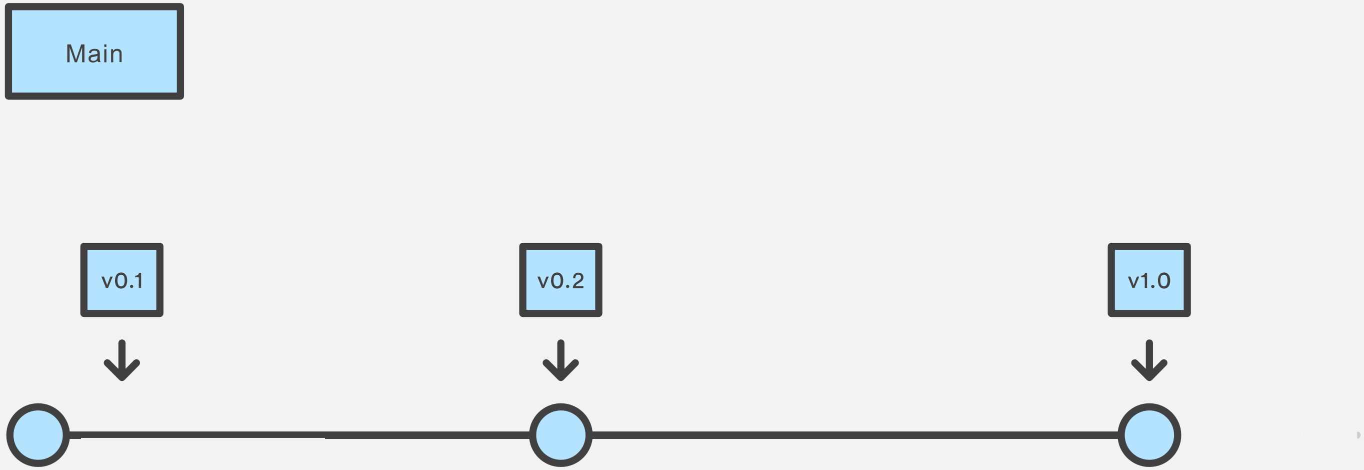

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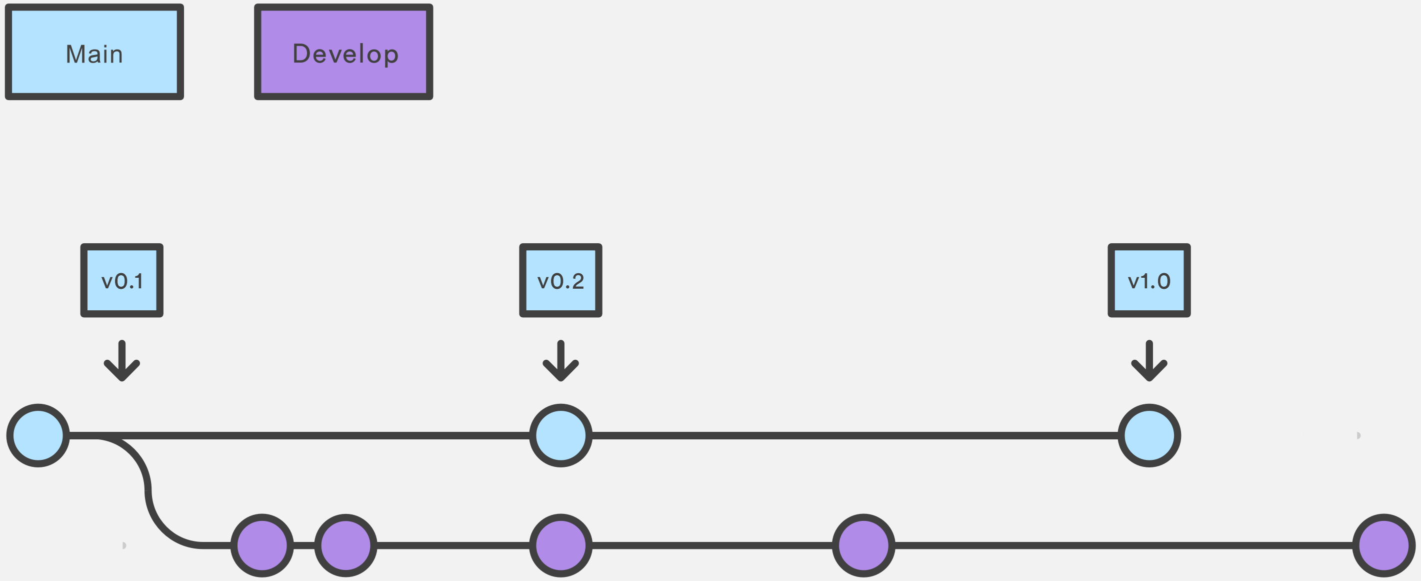
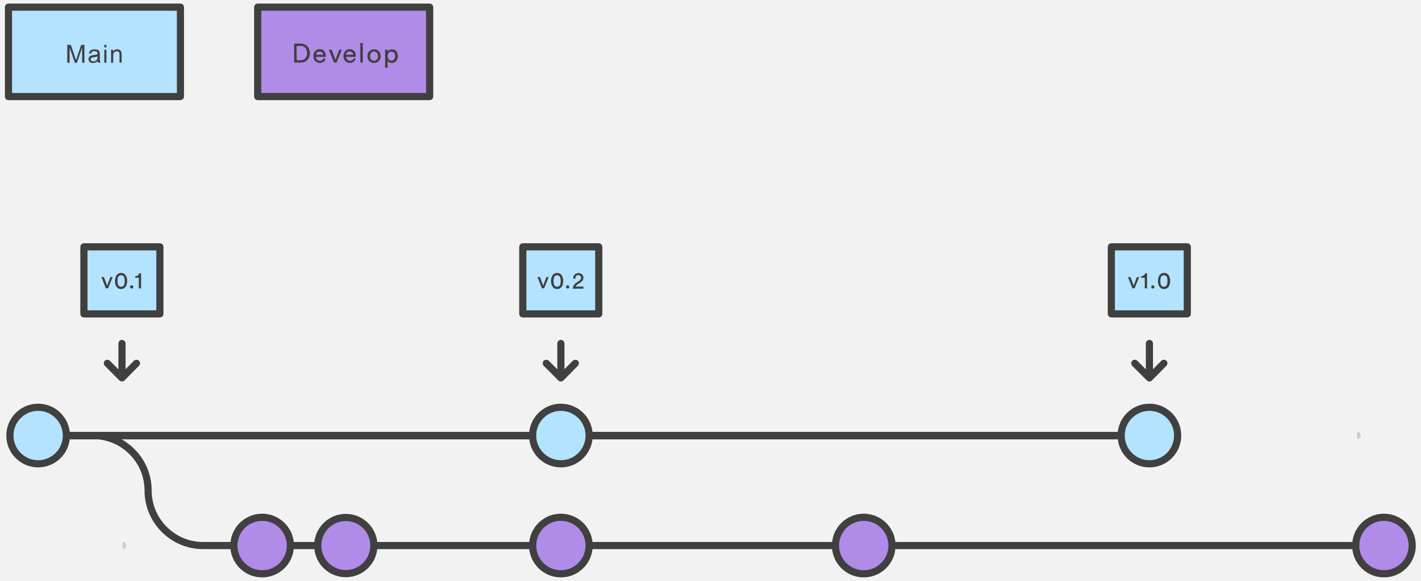


Figures adapted from https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow under Creative Commons Attribution 2.5 Australia License

Git flow for collaboration

- Two branches to record the history of the project (with an infinite lifetime)
  1. ”Main” branch: release history.
  2. “Develop” branch: integration branch for features.
- Each new feature has its own branch
  - Branch off Develop.
  - Merge back into Develop.



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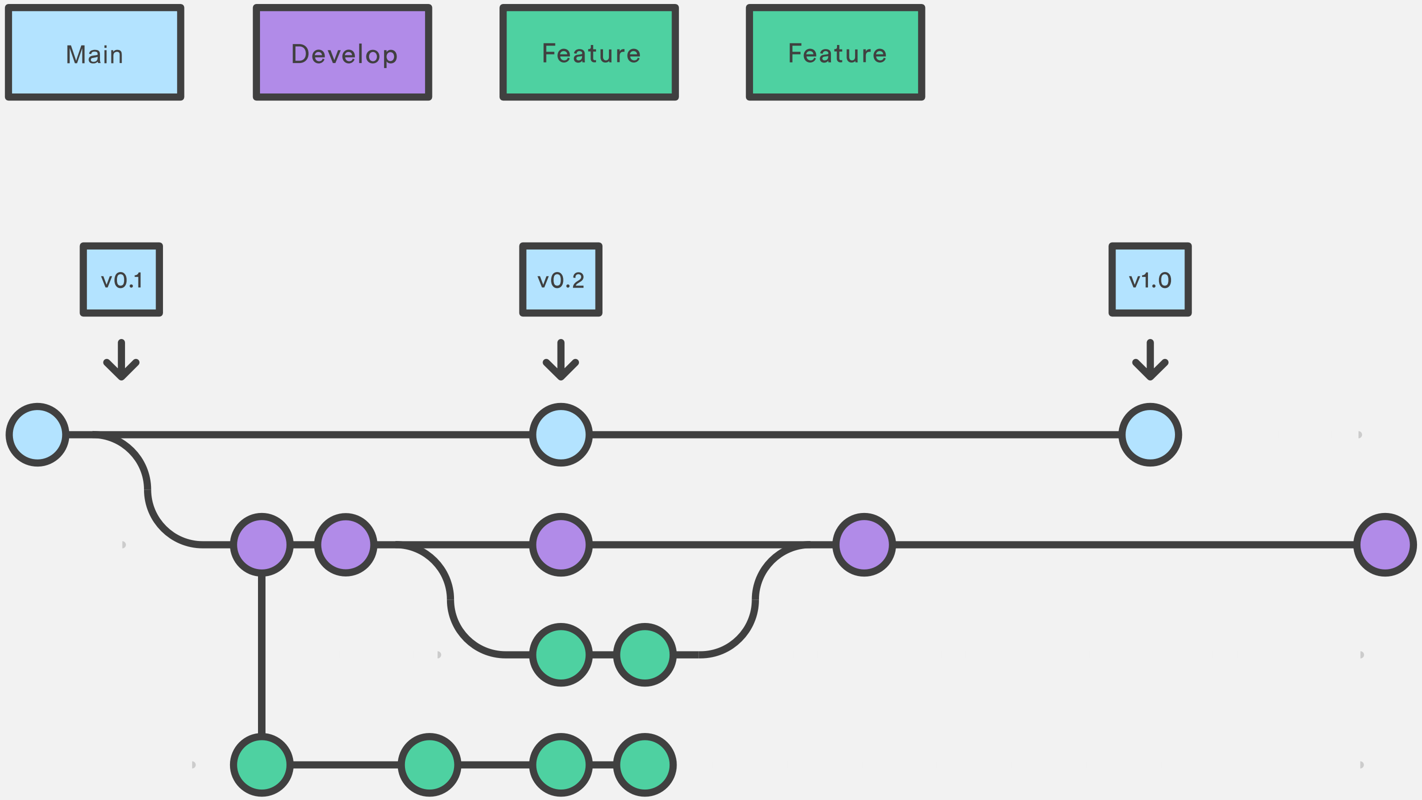

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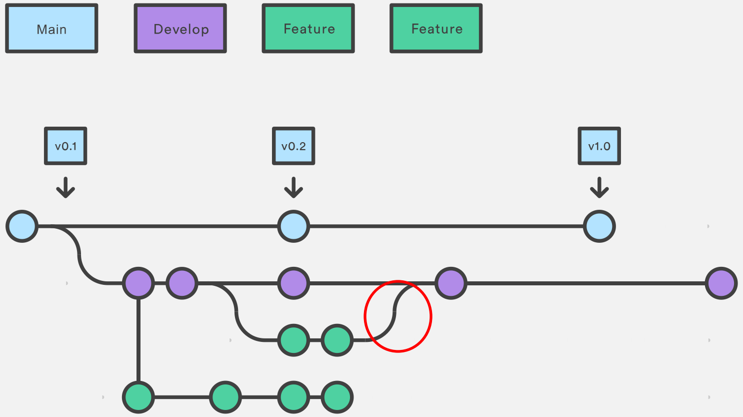

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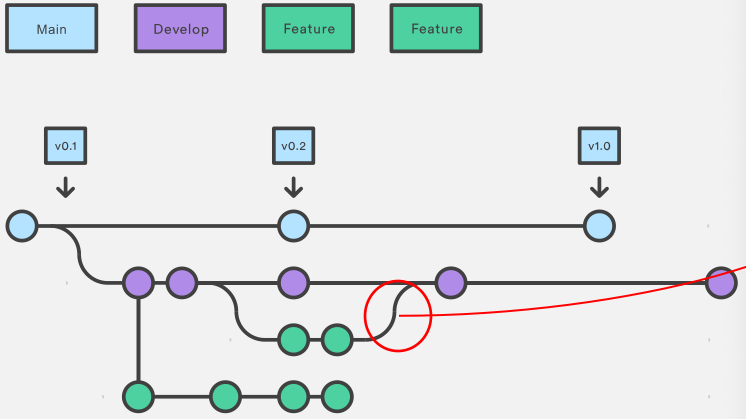
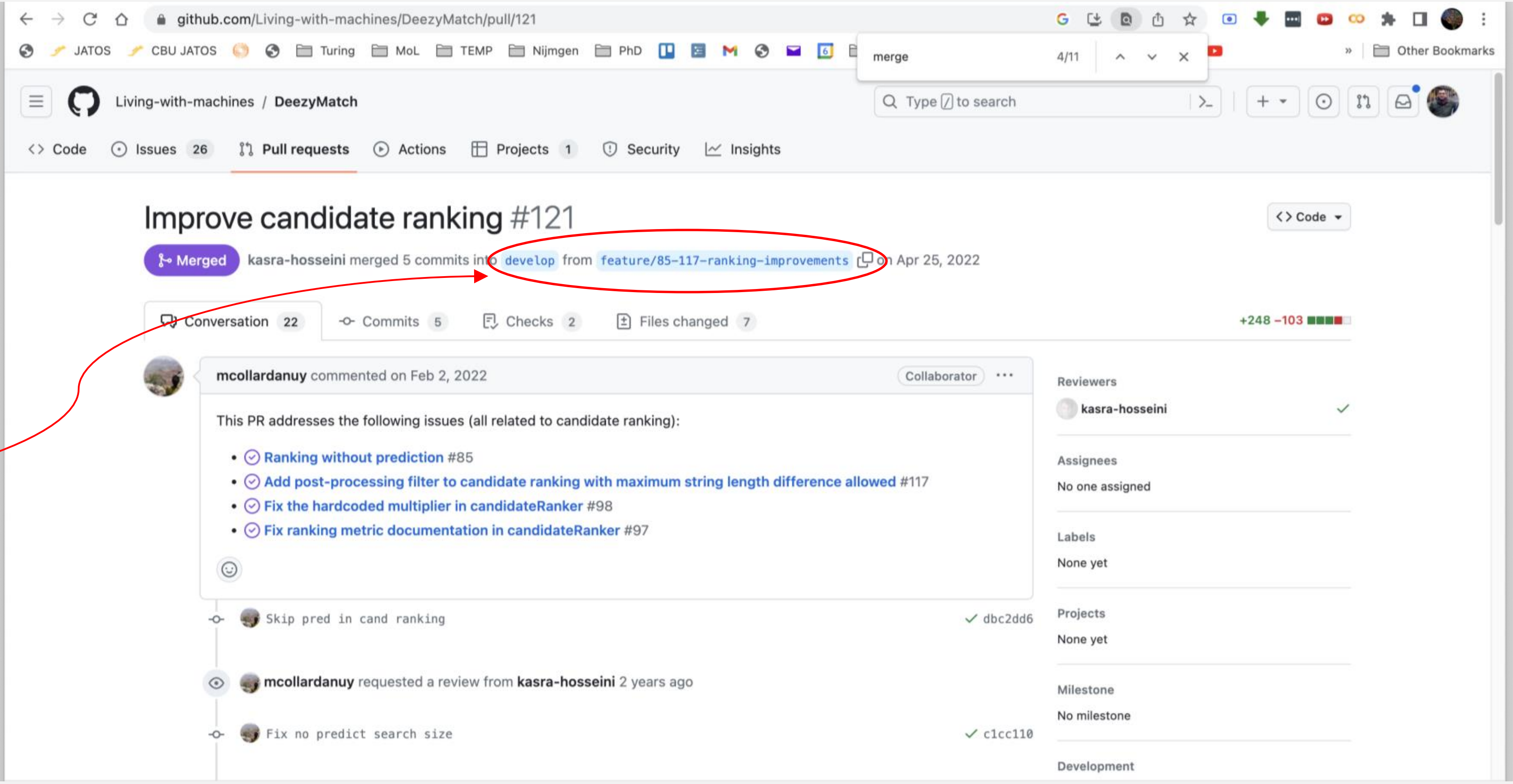




Improve candidate ranking #121

Merged kasra-hosseini merged 5 commits into `develop` from `feature/85-117-ranking-improvements` on Apr 25, 2022

Conversation 22 · Commits 5 · Checks 2 · Files changed 7 · +248 −103

mcollardanuy commented on Feb 2, 2022 · Collaborator

This PR addresses the following issues (all related to candidate ranking):

- Ranking without prediction #85
- Add post-processing filter to candidate ranking with maximum string length difference allowed #117
- Fix the hardcoded multiplier in candidateRanker #98
- Fix ranking metric documentation in candidateRanker #97

`Skip pred in cand ranking` ✓ dbc2dd6

mcollardanuy requested a review from **kasra-hosseini** 2 years ago

`Fix no predict search size` ✓ c1cc110

Reviewers
kasra-hosseini ✓

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development

Figures adapted from https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow under Creative Commons Attribution 2.5 Australia License

Hands-on part 2/2:

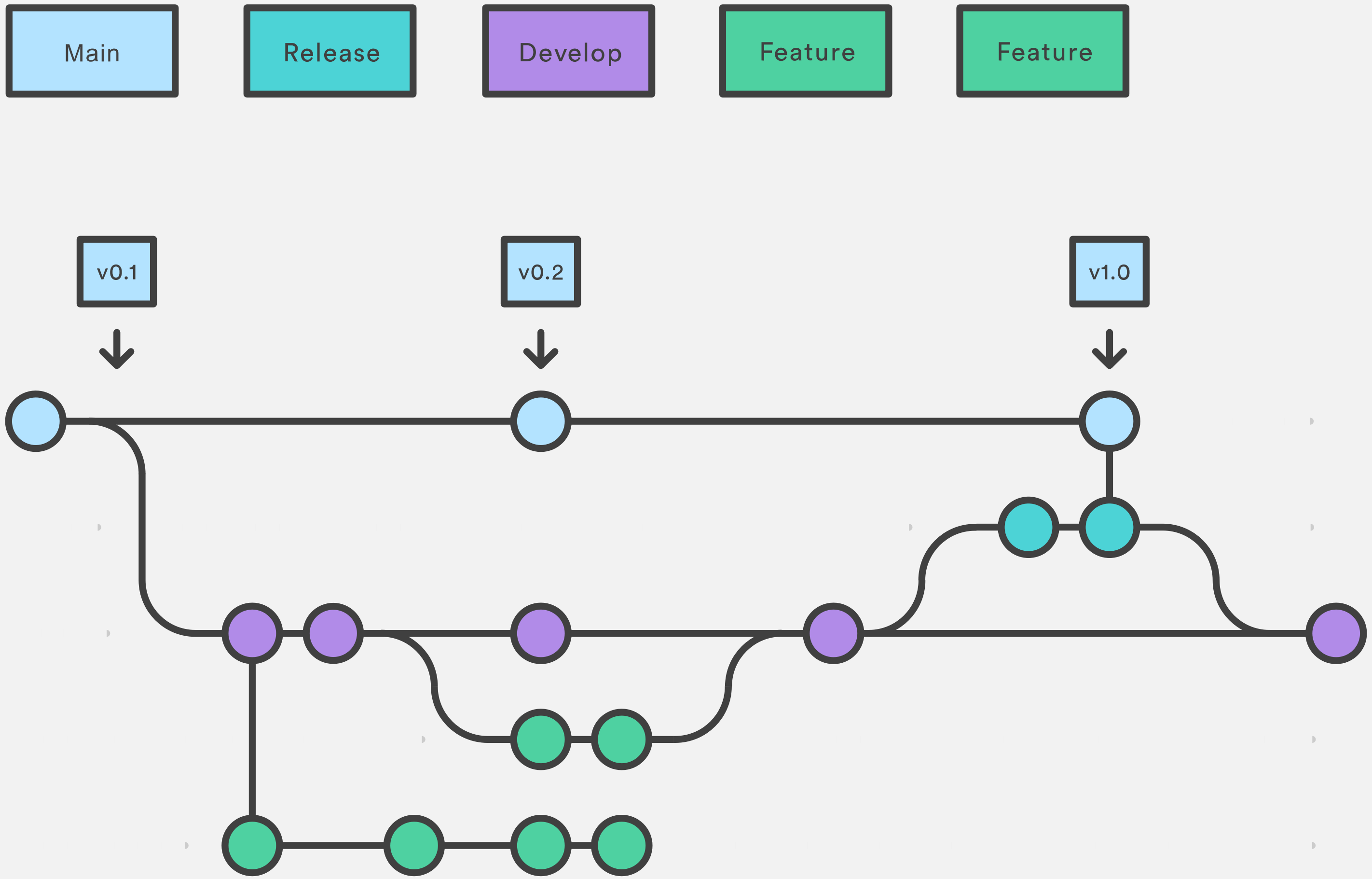
- Topics covered:
  - Creating branches
  - Creating Pull Requests
  - Reviewing Pull Requests
  - Managing merge conflicts

Hands-on part 2/2:

- Topics covered:
  - Creating branches
  - Creating Pull Requests
  - Reviewing Pull Requests
  - Managing merge conflicts
- Link to the step-by-step instructions document
  - Complete sections: Branches, Pull Requests, Review Pull Requests, Merging.

Git flow continued: Release and Hotfix branches

Git flow: Release branches



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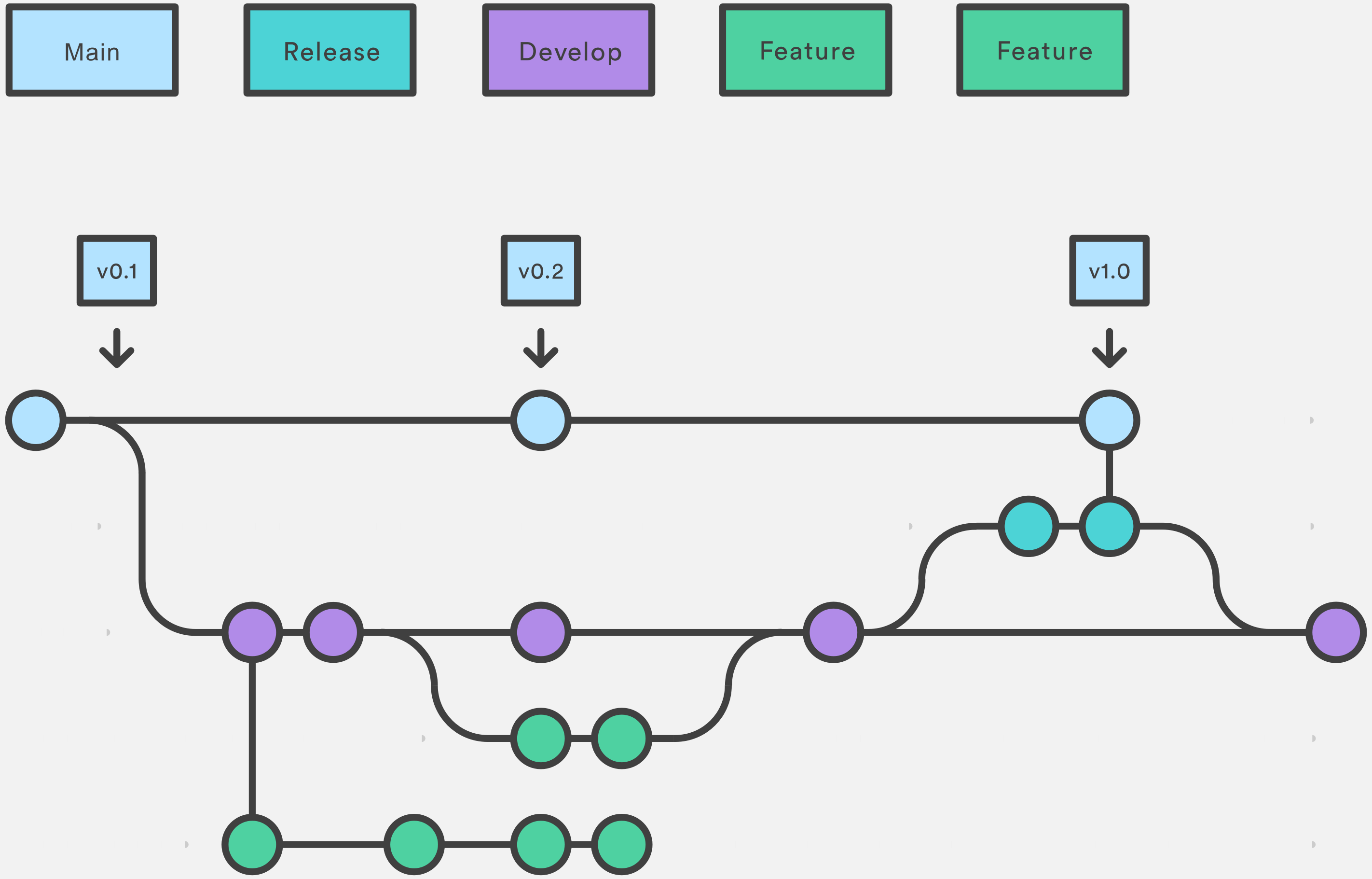
Git flow: Release branches

- When ready for a new release, no new features.



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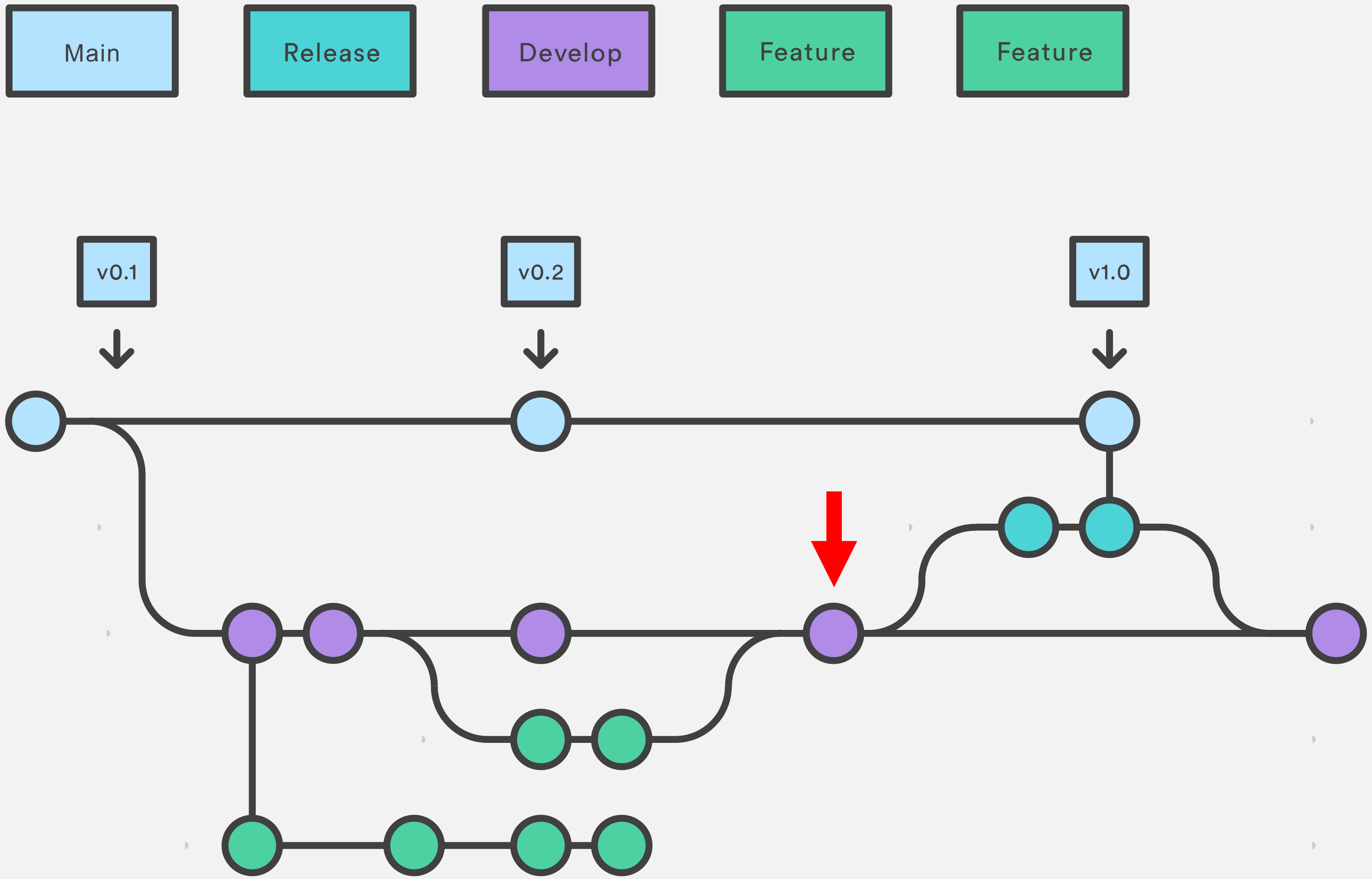

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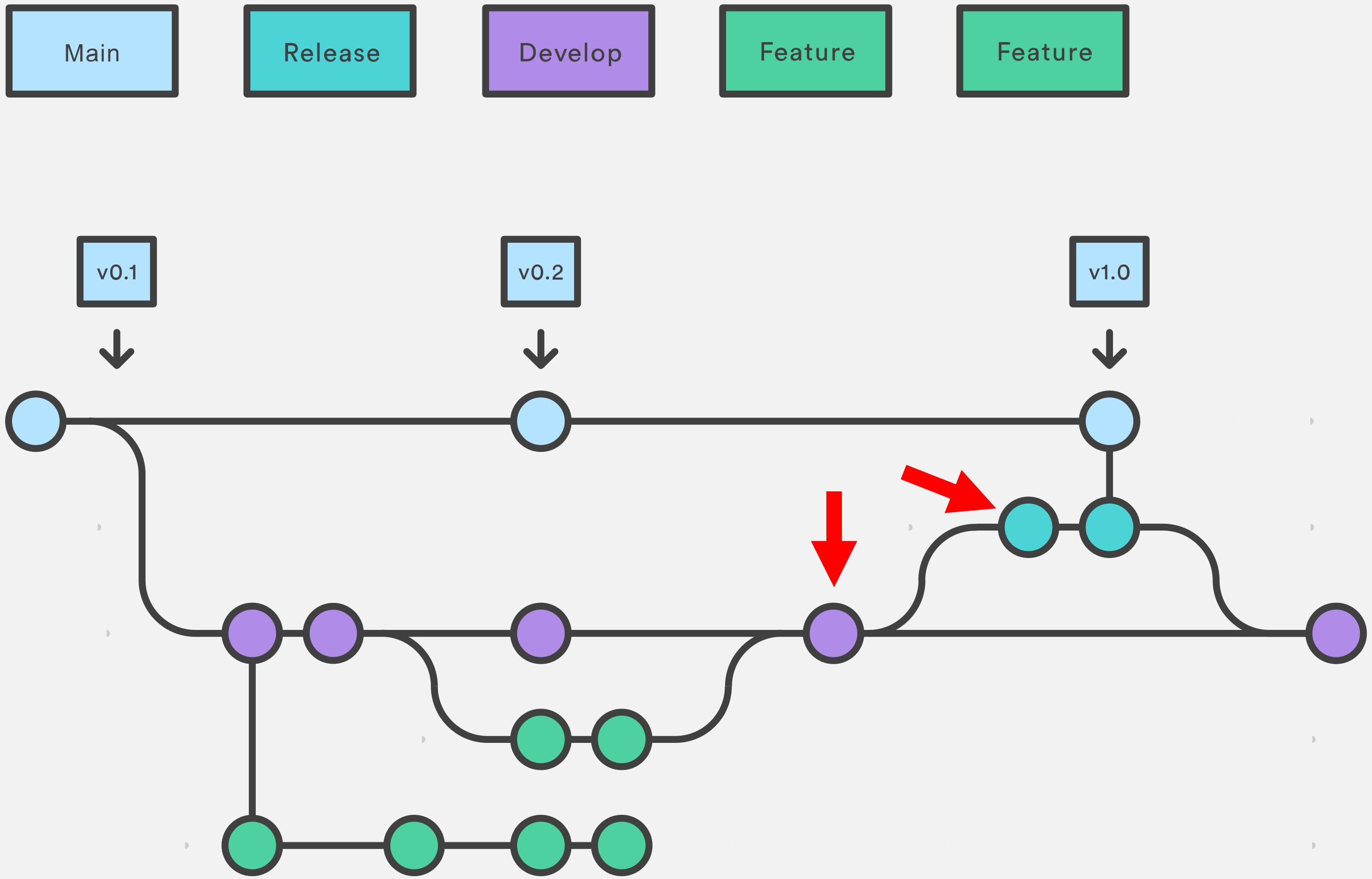
Git flow: Release branches

- When ready for a new release, no new features.
- Create a ”release” branch.



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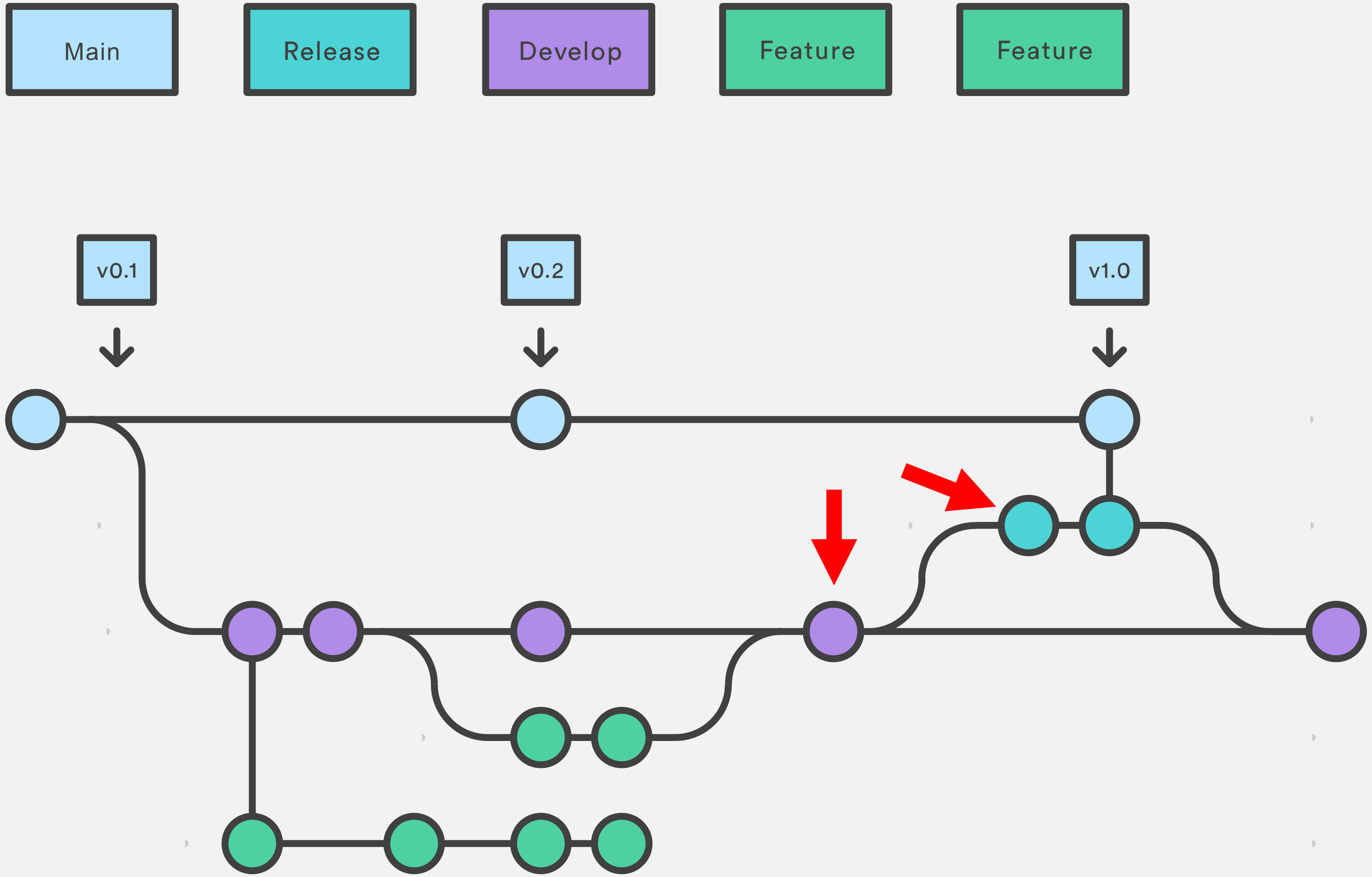
Git flow: Release branches

- When ready for a new release, no new features.
- Create a ”release” branch. Only:
  - Documentation
  - Minor bug fixes
  - Meta-data for release
  - etc.



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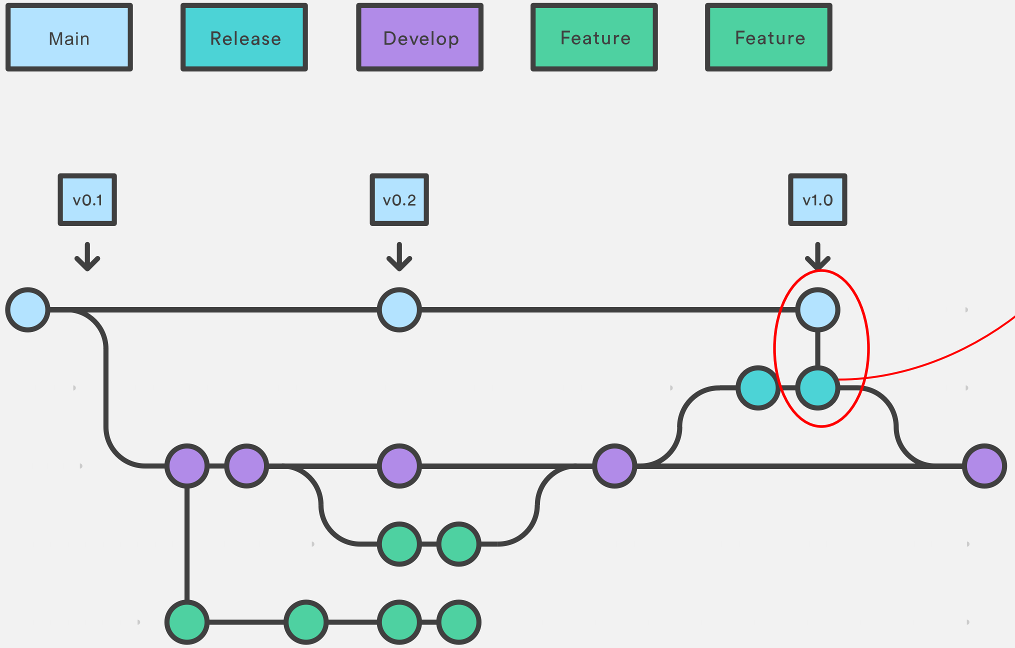
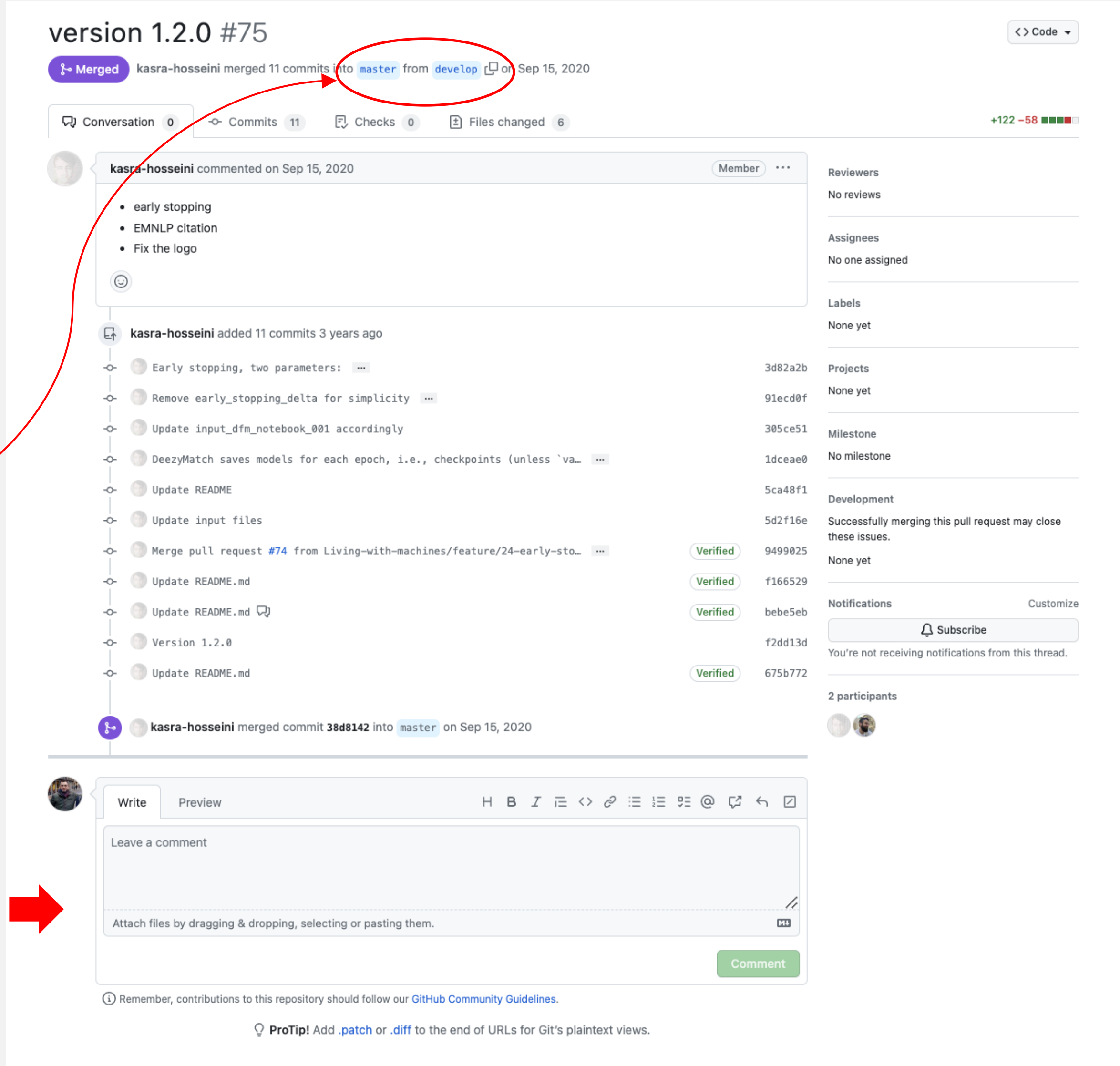
Git flow: Release branches



Review, discuss…



version 1.2.0 #75

Merged kasra-hosseini merged 11 commits into `master` from `develop` on Sep 15, 2020

kasra-hosseini commented on Sep 15, 2020 Member

- early stopping
- EMNLP citation
- Fix the logo

kasra-hosseini added 11 commits 3 years ago

```
Early stopping, two parameters: …                                                 3d82a2b
Remove early_stopping_delta for simplicity …                                      91ecd0f
Update input_dfm_notebook_001 accordingly                                         305ce51
DeezyMatch saves models for each epoch, i.e., checkpoints (unless `va… …          1dceae0
Update README                                                                     5ca48f1
Update input files                                                                5d2f16e
Merge pull request #74 from Living-with-machines/feature/24-early-sto… …  Verified 9499025
Update README.md                                                          Verified f166529
Update README.md                                                          Verified bebe5eb
Version 1.2.0                                                                     f2dd13d
Update README.md                                                          Verified 675b772
```

kasra-hosseini merged commit **38d8142** into `master` on Sep 15, 2020

Reviewers
No reviews

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.
None yet

Notifications Customize
Subscribe
You're not receiving notifications from this thread.

2 participants

Leave a comment

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

Remember, contributions to this repository should follow our GitHub Community Guidelines.

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

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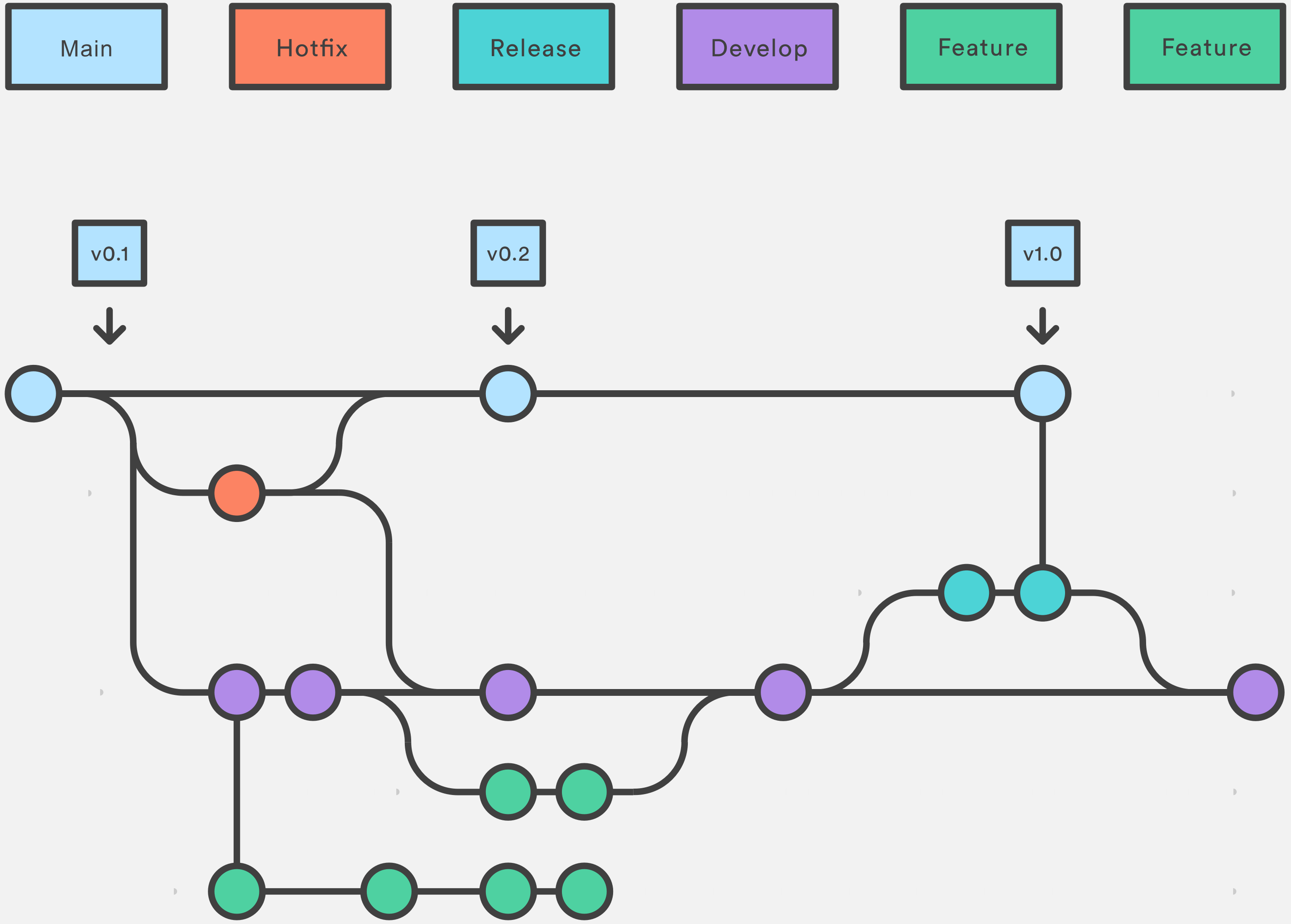
Git flow: Hotfix branches

- Maintenance or Hotfix branches to patch releases



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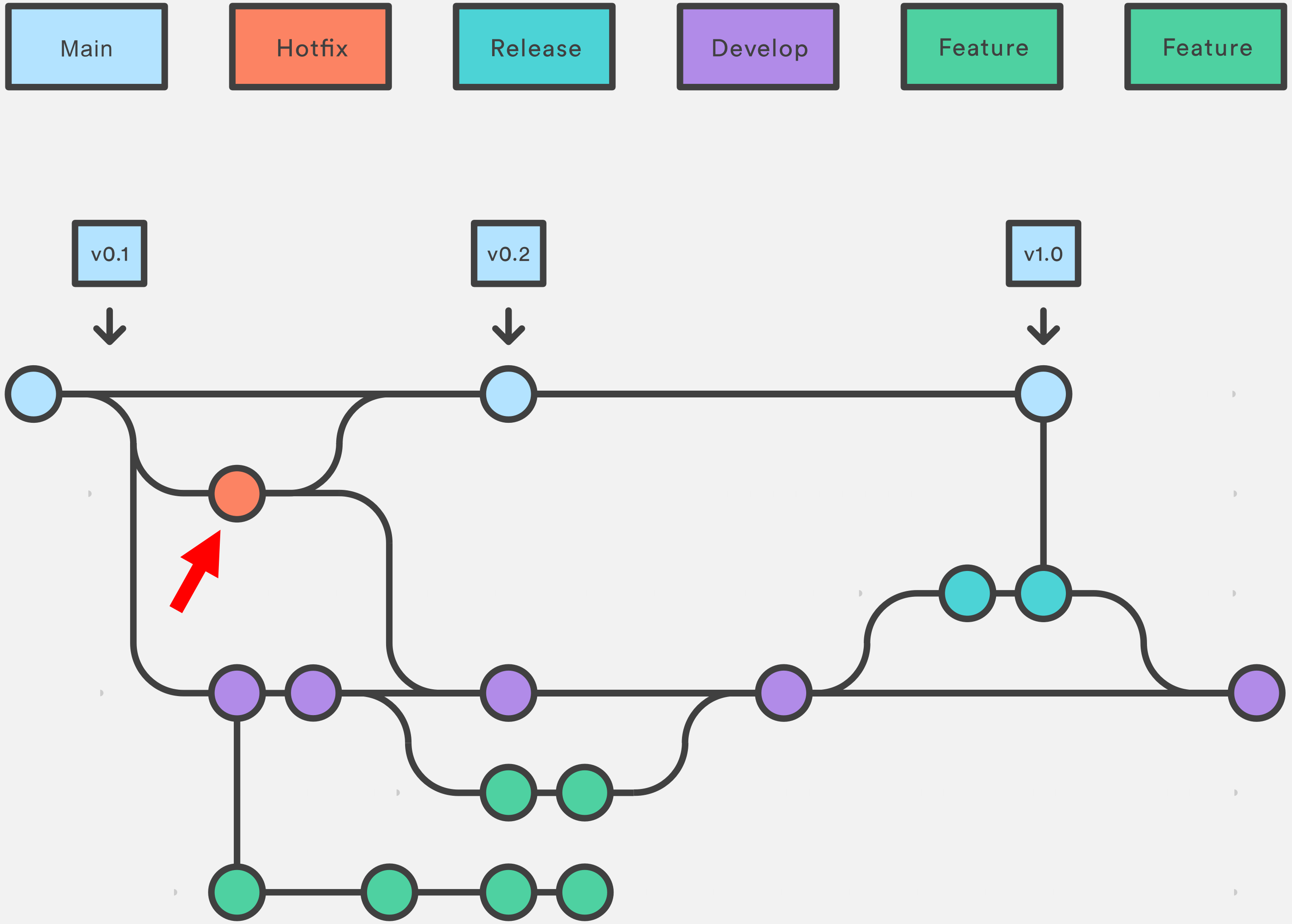

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Git flow: Hotfix branches

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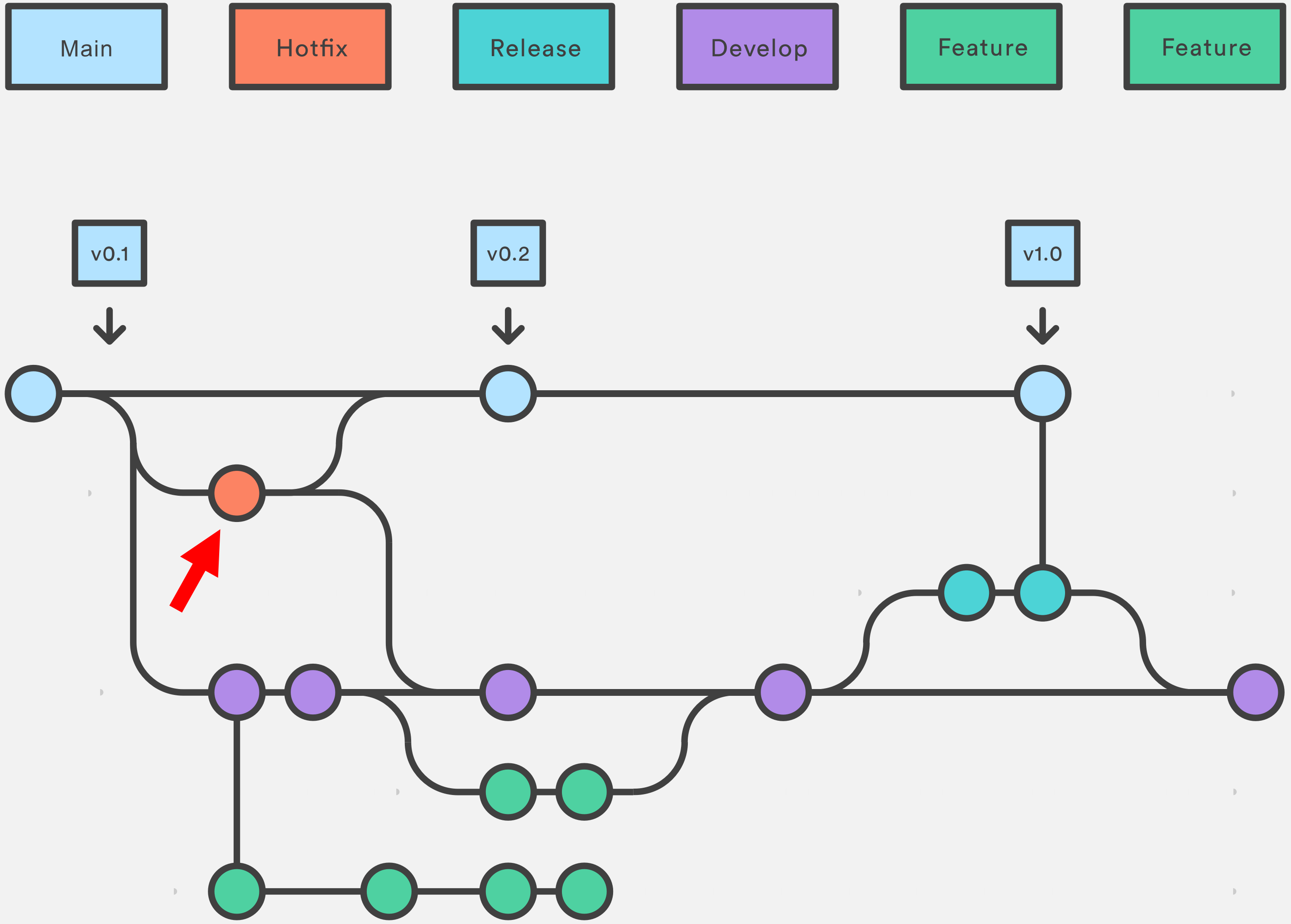

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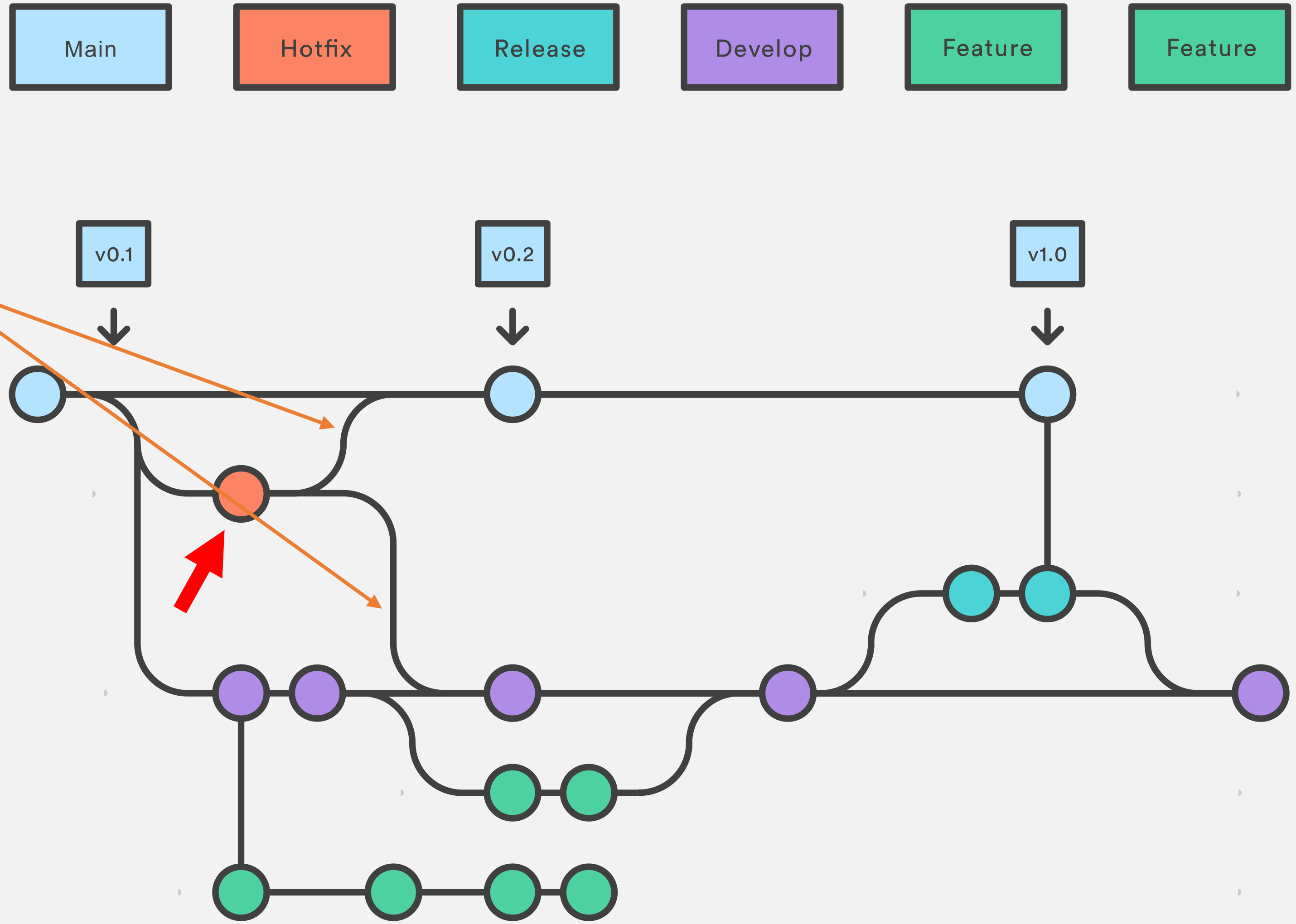
Git flow: Hotfix branches

- Maintenance or Hotfix branches to patch releases
- They are based on main
- Merge into Main and Develop (or release, if exists)



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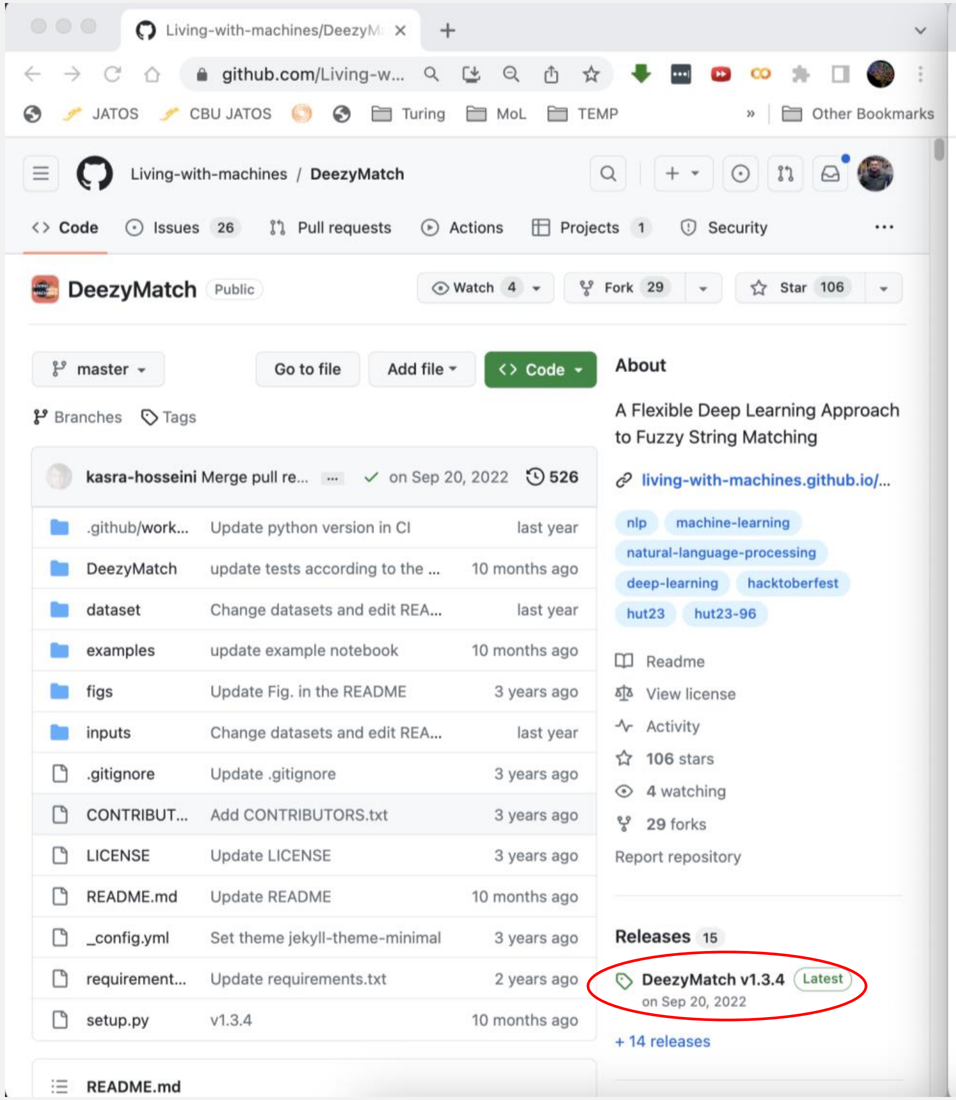
Git flow: versioning the release of your software



DeezyMatch Public

kasra-hosseini Merge pull re... ✓ on Sep 20, 2022 526

.github/work...	Update python version in CI	last year
DeezyMatch	update tests according to the ...	10 months ago
dataset	Change datasets and edit REA...	last year
examples	update example notebook	10 months ago
figs	Update Fig. in the README	3 years ago
inputs	Change datasets and edit REA...	last year
.gitignore	Update .gitignore	3 years ago
CONTRIBUT...	Add CONTRIBUTORS.txt	3 years ago
LICENSE	Update LICENSE	3 years ago
README.md	Update README	10 months ago
_config.yml	Set theme jekyll-theme-minimal	3 years ago
requirement...	Update requirements.txt	2 years ago
setup.py	v1.3.4	10 months ago

README.md

About

A Flexible Deep Learning Approach to Fuzzy String Matching

living-with-machines.github.io/...

nlp machine-learning natural-language-processing deep-learning hacktoberfest hut23 hut23-96

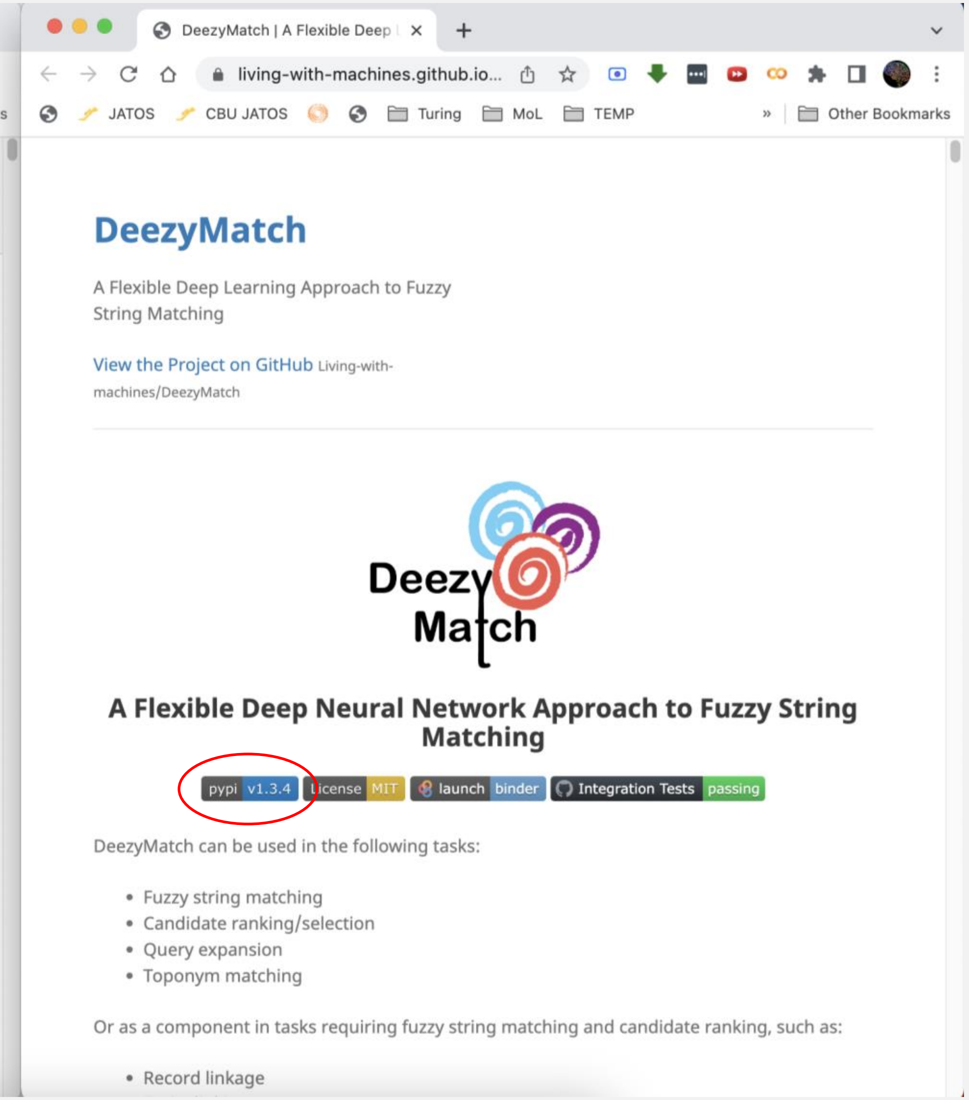
- Readme
- View license
- Activity
- 106 stars
- 4 watching
- 29 forks

Report repository

Releases 15

DeezyMatch v1.3.4 Latest
on Sep 20, 2022

+ 14 releases



DeezyMatch

A Flexible Deep Learning Approach to Fuzzy String Matching

View the Project on GitHub Living-with-machines/DeezyMatch

A Flexible Deep Neural Network Approach to Fuzzy String Matching

DeezyMatch can be used in the following tasks:

- Fuzzy string matching
- Candidate ranking/selection
- Query expansion
- Toponym matching

Or as a component in tasks requiring fuzzy string matching and candidate ranking, such as:

- Record linkage

No code was damaged

in the making of this workshop