GitHub - Pull Request training

DIME Analytics

October 29, 2020

DIME - The World Bank - https://www.worldbank.org/en/research/dime

Who is this training for?

Who is this training for?

Anyone comfortable branching, committing and merging in Git/GitHub who is ready to be introduced to a more advanced workflow using Git/GitHub to ensure high quality code.

Content

THIS TRAINING HAS TWO PARTS

Part 1

Introducing the *branch-PR-merge* cycle

A best practice framework for implementing each task in a PR

Part 2

Introducing the Gitflow philosophy

A best practice framework for working with PRs in your project

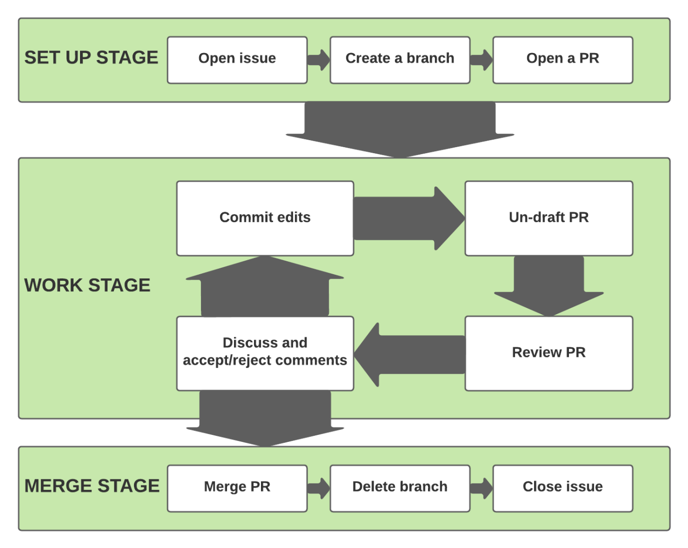
Part 1:
Best practices for the branch-PR-merge cycle

The branch-PR-merge cycle

Three stages with multiple steps in each

Complete a full *branch-PR-merge* cycle for **all tasks**

We will go over all steps but focus today on the **work stage**



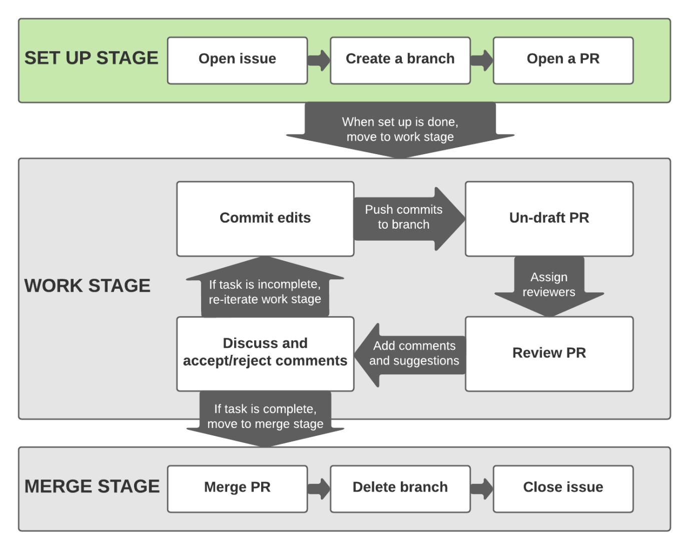
Stage: The set up stage

SET UP STAGE

Stage: The set up stage

Purpose of the set up stage:

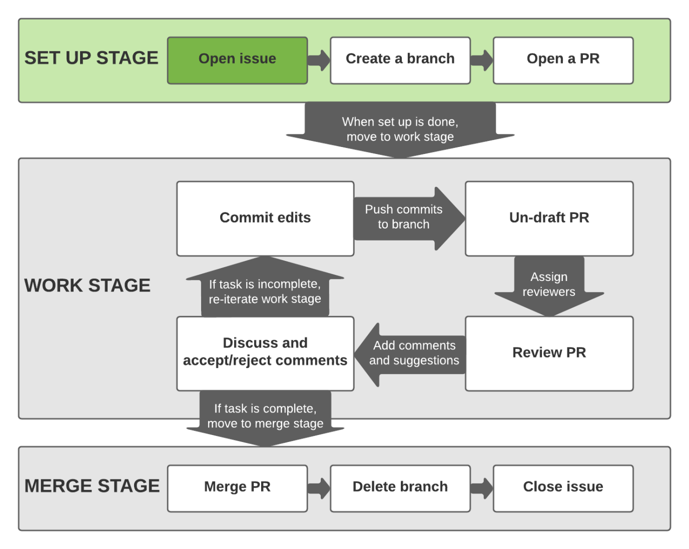
- Document the task you will work on
- Create a space in your repo to work on the task



SET UP STAGE
Open issue
Create a branch
Open a PR
When set up is done, move to work stage
WORK STAGE
Commit edits
Push commits to branch
Un-draft PR
Assign reviewers
Review PR
Add comments and suggestions
Discuss and accept/reject comments
If task is incomplete, re-iterate work stage
If task is complete, move to merge stage
MERGE STAGE
Merge PR
Delete branch
Close issue

Step: Create an issue

- Issues is a far superior way to document tasks compared to emails or in-person meetings!
- They allow other team members to provide input on how to solve the task
- Very quick tasks that do not require discussion may not need an issue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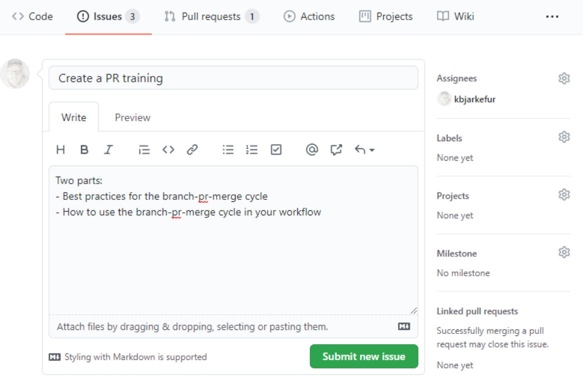


Create a PR training

Two parts:
- Best practices for the branch-pr-merge cycle
- How to use the branch-pr-merge cycle in your workflow

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

Styling with Markdown is supported

Assignees: kbjarkefur

Labels: None yet

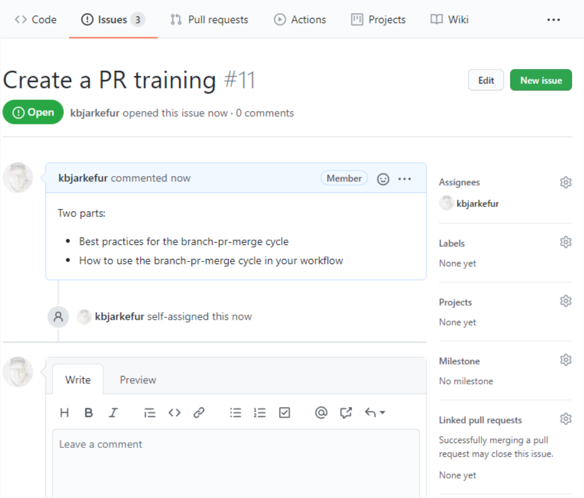
Projects: None yet

Milestone: No milestone

Linked pull requests: Successfully merging a pull request may close this issue. None yet

- Click the issues tab and then `New Issue`
- Describe the task and assign yourself or someone else to complete the task
- Ask the rest of the team of input if applicable
- Add labels to facilitate future searches

Browse an issue



Create a PR training #11

Open kbjarkefur opened this issue now · 0 comments

kbjarkefur commented now

Two parts:

- Best practices for the branch-pr-merge cycle
- How to use the branch-pr-merge cycle in your workflow

kbjarkefur self-assigned this now

Leave a comment

Assignees: kbjarkefur

Labels: None yet

Projects: None yet

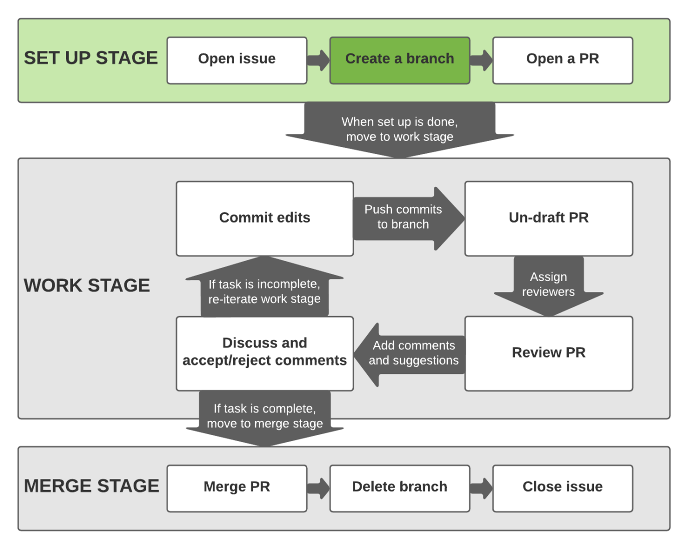
Milestone: No milestone

Linked pull requests: Successfully merging a pull request may close this issue. None yet

- Take note of the issue number (also found in end of issue URL) so you can refer to it
- Anyone can provide input using the comment field
- Assignees and labels can be updated as the task evolve
- Future team members can browse closed issues

Create a branch

- Create branch on GitHub.com ▸ Step-by-step
- We create a branch to have a space where work on this task does not interfere with work on other tasks
- Name the branch after the task and add the issue number as suffix - for example: `pr-training-11`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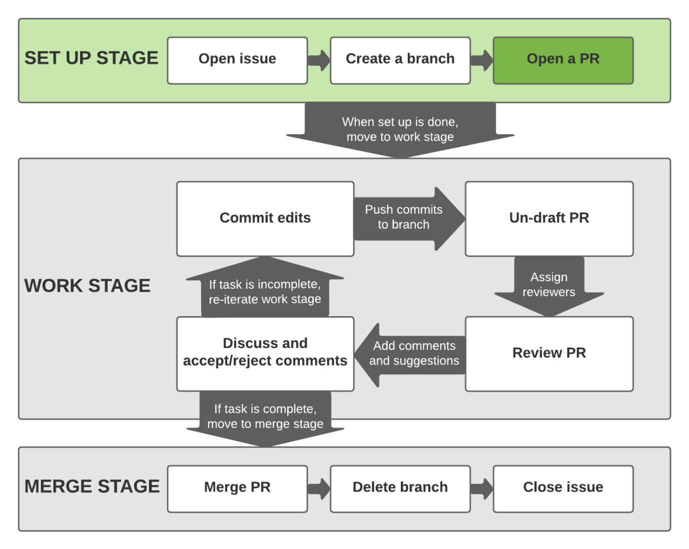
Open the PR

- Create a PR **before** you implement the task - this creates a space on GitHub.com where the progress of this task can be followed
- You can create a *“draft PR”* that cannot be merged while in draft status - signals work in progress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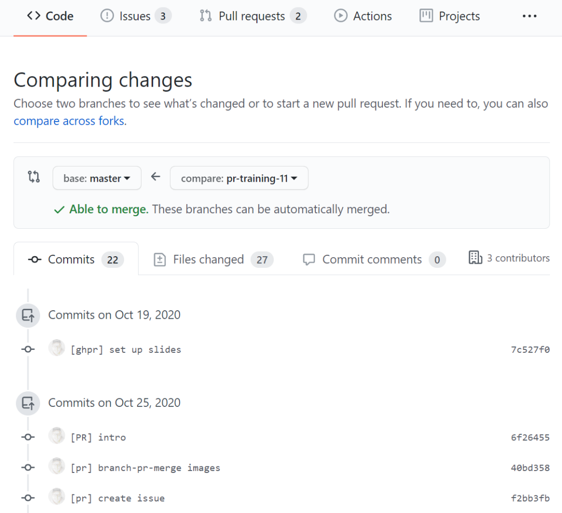


Comparing changes

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: master ← compare: pr-training-11

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

Commits on Oct 19, 2020

```
[ghpr] set up slides                                7c527f0
```

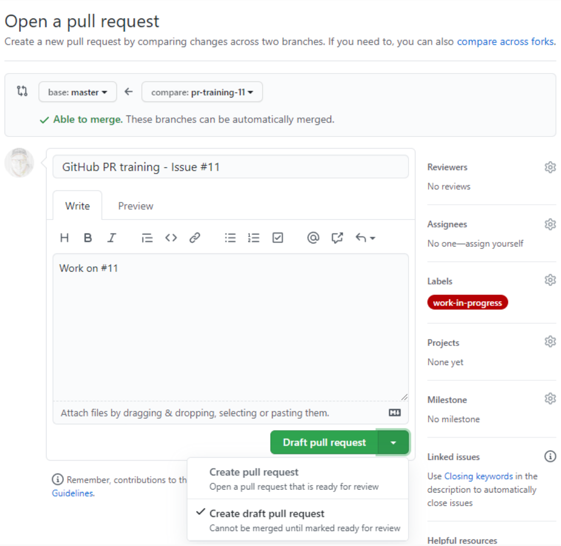
Commits on Oct 25, 2020

```
[PR] intro                                          6f26455
[pr] branch-pr-merge images                         40bd358
[pr] create issue                                   f2bb3fb
```

Recap of PR creation best practices:

- Go to the *"Pull request"* tab
- Make sure that you are comparing the correct branches
- Always browse the commits and the files changes before opening the PR
- You need at least one commit - Create/edit a README describing the task

Create a draft PR



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: master ← compare: pr-training-11

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

GitHub PR training - Issue #11

Work on #11

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

Reviewers: No reviews

Assignees: No one—assign yourself

Labels: work-in-progress

Projects: None yet

Milestone: No milestone

Linked issues: Use Closing keywords in the description to automatically close issues

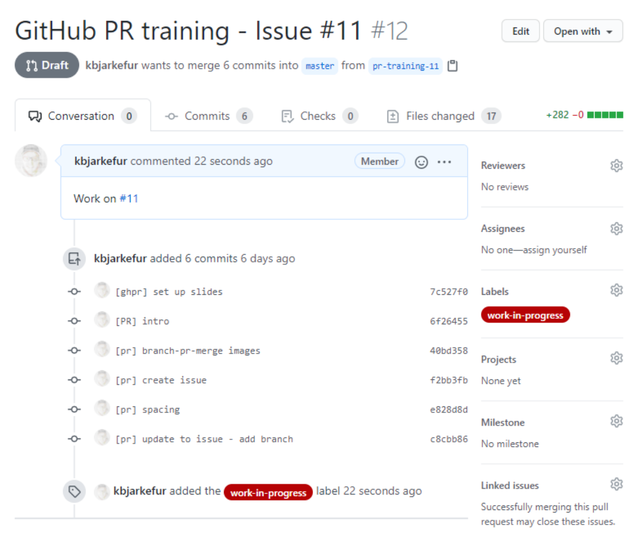
Remember, contributions to th… Guidelines.

Create pull request
Open a pull request that is ready for review

✓ Create draft pull request
Cannot be merged until marked ready for review

- Give the PR a name associated with the branch name but more descriptive
- Add #11 in the description to create a hyper link to issue - add `work-in-progress` label
- Click the arrow on the green button and select *Create draft pull request*

Browse draft PR



GitHub PR training - Issue #11 #12

Edit | Open with ▾

Draft kbjarkefur wants to merge 6 commits into `master` from `pr-training-11`

Conversation 0 | Commits 6 | Checks 0 | Files changed 17 | +282 −0

kbjarkefur commented 22 seconds ago · Member

Work on #11

kbjarkefur added 6 commits 6 days ago

```
[ghpr] set up slides                 7c527f0
[PR] intro                           6f26455
[pr] branch-pr-merge images          40bd358
[pr] create issue                    f2bb3fb
[pr] spacing                         e828d8d
[pr] update to issue - add branch    c8cbb86
```

kbjarkefur added the work-in-progress label 22 seconds ago

Reviewers: No reviews

Assignees: No one—assign yourself

Labels: work-in-progress

Projects: None yet

Milestone: No milestone

Linked issues: Successfully merging this pull request may close these issues.

- A draft PR has the color code gray
- You can follow someone's work here - but no one is required to review anything yet
- The author will eventually remove the draft status and ask for reviews

Stage: The work stage

WORK STAGE

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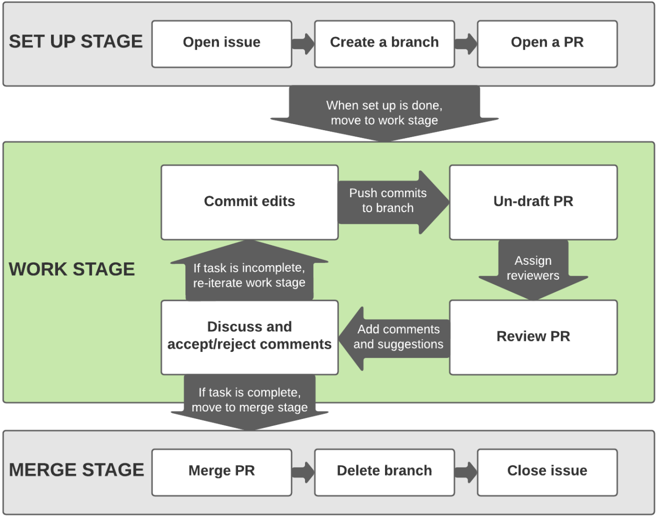
Purpose of the work stage:

- Write the code that implements this task
- Use the review features in a PR to improve code quality
- Iterate this stage until you have high-quality code



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WORK STAGE

Commit edits → Push commits to branch → Un-draft PR

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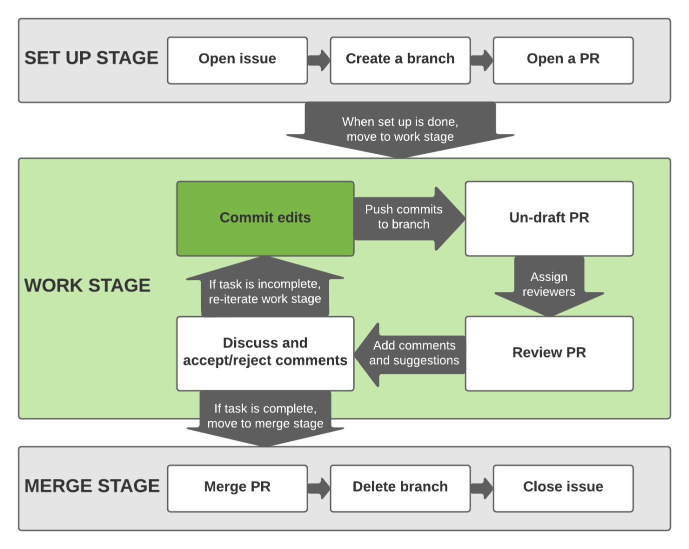
If task is complete, move to merge stage

MERGE STAGE

Merge PR → Delete branch → Close issue

Make commits

- The author commits edits as usual
- The draft PR will be updated as more commits are pushed to the branch
- Keep pushing commits until the first implementation of the task is complete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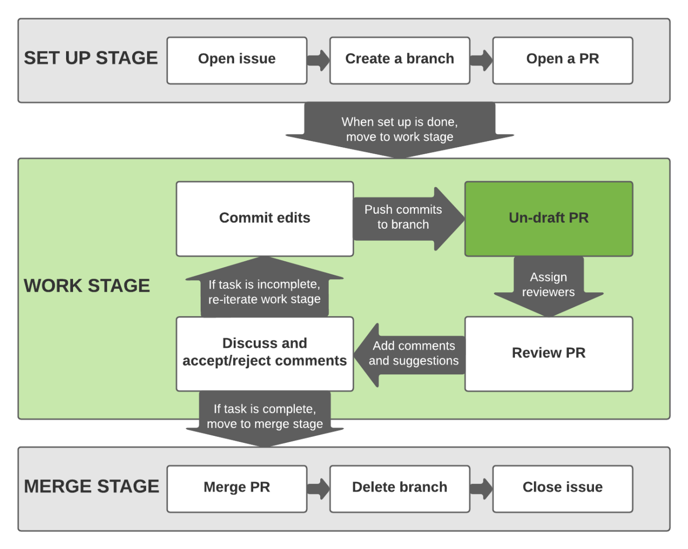
Un-draft the PR

- Document what has been implemented in the branch
- Un-drafting indicates that a PR is ready to review



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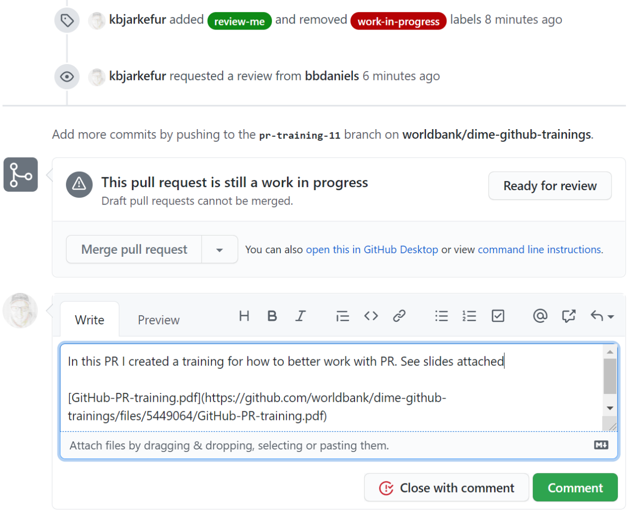


kbjarkefur added review-me and removed work-in-progress labels 8 minutes ago

kbjarkefur requested a review from bbdaniels 6 minutes ago

Add more commits by pushing to the `pr-training-11` branch on worldbank/dime-github-trainings.

This pull request is still a work in progress

Draft pull requests cannot be merged.

In this PR I created a training for how to better work with PR. See slides attached

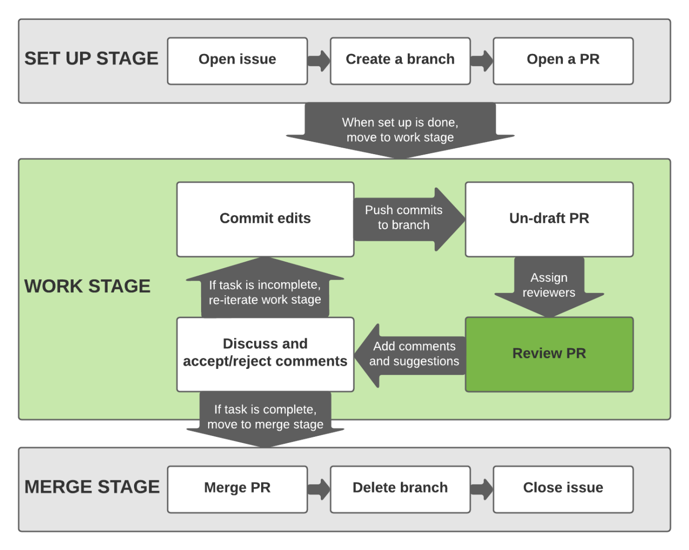
[GitHub-PR-training.pdf](https://github.com/worldbank/dime-github-trainings/files/5449064/GitHub-PR-training.pdf)

Ready for review
Merge pull request
You can also open this in GitHub Desktop or view command line instructions.
Write
Preview
Attach files by dragging & dropping, selecting or pasting them.
Close with comment
Comment

- Replace the *work-in-progress* label with *review-me*
- Assign one or several people to review your PR
- Notify the reviewer(s) using email or slack as GitHub notifications may be muted
- Click *“Ready for review”* to remove draft status

Review the PR

- PR reviews are incredibly important for high-quality code
- Use the PR to review code edits in the *file changes* tab
- The reviewer adds code suggestions and comments



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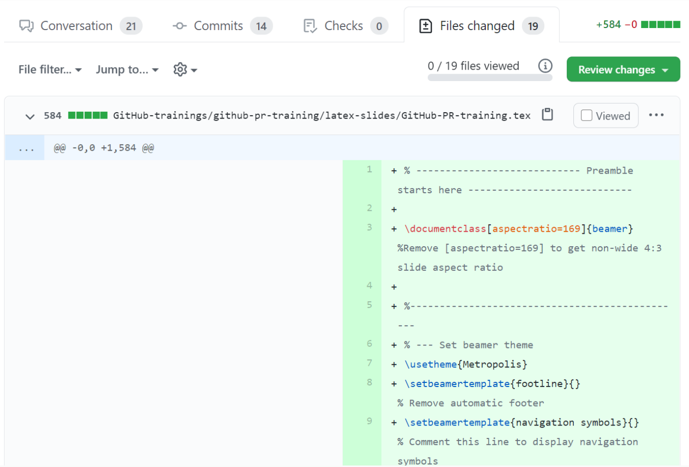


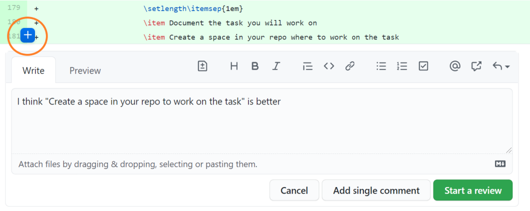
584 GitHub-trainings/github-pr-training/latex-slides/GitHub-PR-training.tex

```
@@ -0,0 +1,584 @@
+ % --------------------------- Preamble
  starts here ---------------------------
+
+ \documentclass[aspectratio=169]{beamer}
  %Remove [aspectratio=169] to get non-wide 4:3
  slide aspect ratio
+
+ %------------------------------------------
  ---
+ % --- Set beamer theme
+ \usetheme{Metropolis}
+ \setbeamertemplate{footline}{}
  % Remove automatic footer
+ \setbeamertemplate{navigation symbols}{}
  % Comment this line to display navigation
  symbols
```

- Start your review by reading what the author or anyone else have already said in the *"Conversation"* tab

- Then go to the *"Files changed"* tab - this is where you will review the new content of the files

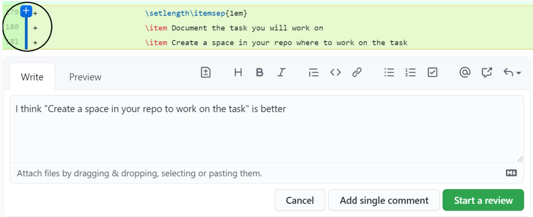
Line comments



```
+                  \setlength\itemsep{1em}
+                  \item Document the task you will work on
+                  \item Create a space in your repo where to work on the task
```

I think "Create a space in your repo to work on the task" is better

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



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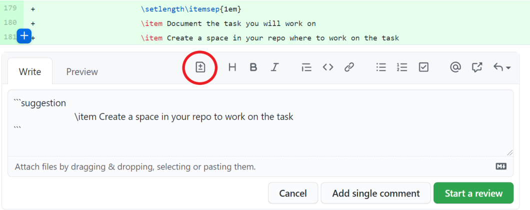
Attach files by dragging & dropping, selecting or pasting them.

- Make comments on specific lines of as much as possible - line comments are much easier to keep track of
- Hover with the mouse over the line number for a line you want to comment on and click the plus sign (blue circle) to open comment field
- Hold shift when click and drag mouse to comment multiple lines (black circle)

Line suggestions



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```

~~~
```suggestion
               \item Create a space in your repo to work on the task
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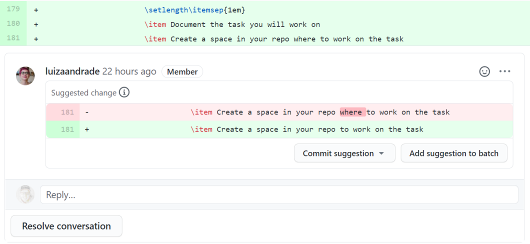
~~~



```
+                    \setlength\itemsep{1em}
+                    \item Document the task you will work on
+                    \item Create a space in your repo where to work on the task
```

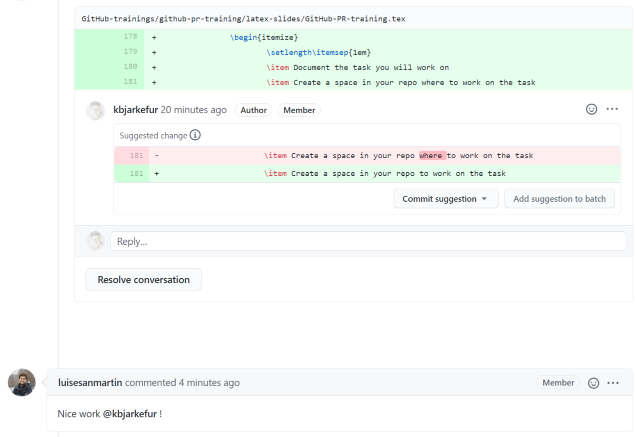
luizaandrade 22 hours ago Member

Suggested change

```
181 -                \item Create a space in your repo where to work on the task
181 +                \item Create a space in your repo to work on the task
```

- You can also suggest an edit directly to the code if the edit is not too big
- Click the suggestion button (red circle) and edit the line of code in the comment field
- The author will then see the exact difference in your suggestion
- Suggestions can be done to multi-line comments too and can be combined with regular comments

Overall comments



GitHub-trainings/github-pr-training/latex-slides/GitHub-PR-training.tex

```
+            \begin{itemize}
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```

kbjarkefur 20 minutes ago Author Member

Suggested change

```
-                \item Create a space in your repo where to work on the task
+                \item Create a space in your repo to work on the task
```

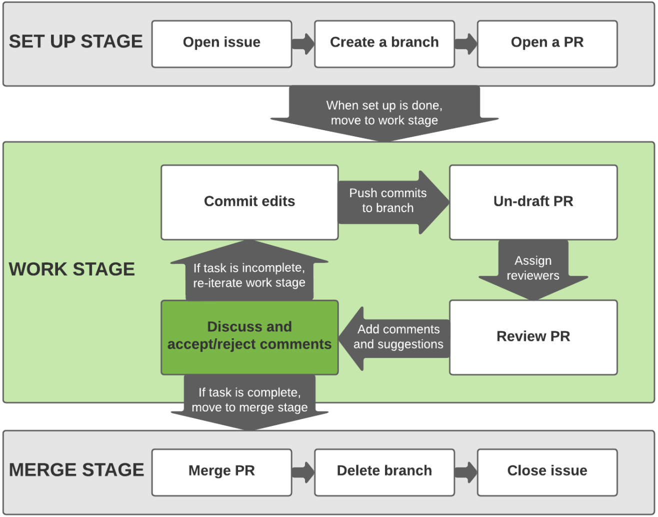
luisesanmartin commented 4 minutes ago Member

Nice work @kbjarkefur !

- Make overall comments and comments that cannot be done to a specific section of the code in thread in the *"Conversation"* tab
- Tag the author so they get a notification that someone have reviewed the PR
- Suggestions are also listed in this tab

Discuss and accept/reject

- The author discusses, accepts or rejects suggestions and replies to comments
- The author, the reviewer(s) and/or anyone else in the project team then decide if the work stage needs to be repeated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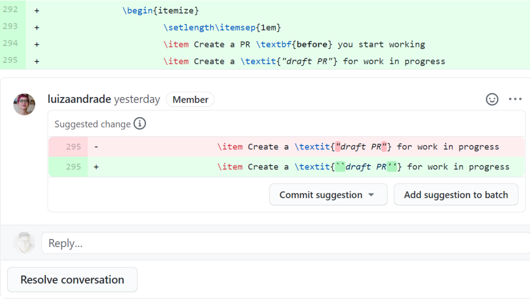


```
+             \begin{itemize}
+                     \setlength\itemsep{1em}
+                     \item Create a PR \textbf{before} you start working
+                     \item Create a \textit{"draft PR"} for work in progress
```

luizaandrade yesterday Member

Suggested change

```
-                     \item Create a \textit{"draft PR"} for work in progress
+                     \item Create a \textit{``draft PR''} for work in progress
```

- Respond to code suggestions before comments as suggestions tend to be quicker to address
- Suggestions and line comments are listed chronologically in the *"Conversation"* tab and by line number in the *"File changes"* tab
- Accept the suggestion with *Commit Suggestion*, ignore/delete it with *Resolve conversation* or comment to ask for more information

Approve PR

- When all suggestions and comments have been responded to, the team should discuss if a task is done or need more work
- If major work is still required, revert the PR to draft status, add back the *work-in-progress* label and iterate the work stage again
- Move on to the merge stage only when the task is complete and the team agrees the code is high-quality

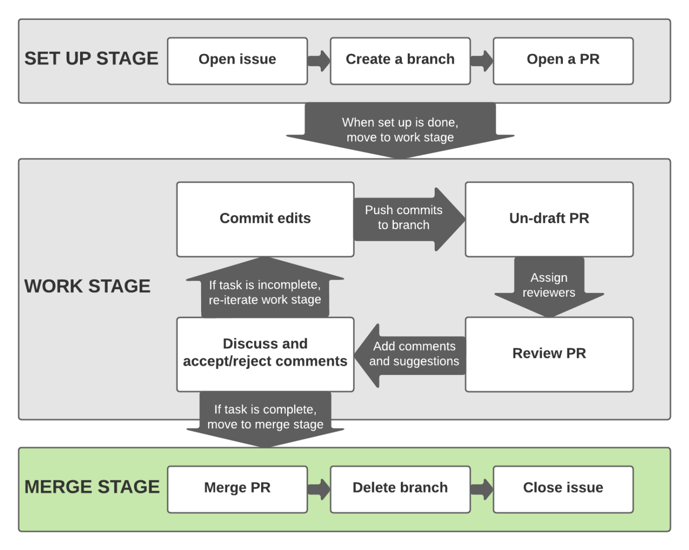
Stage: The merge stage

MERGE STAGE

Stage: The merge stage

Purpose of the merge stage:

- Merge the quality controlled PR
- Make sure the task is properly documented and clean up the repo



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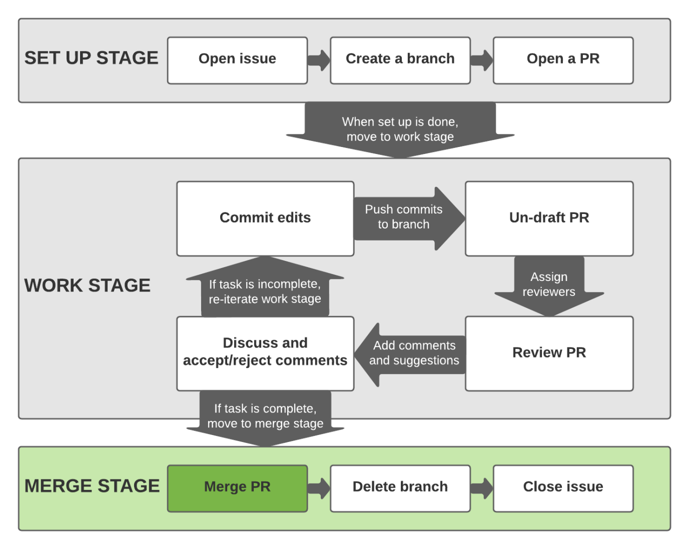
Merge the PR

- Make sure that the PR is well documented - this is where future team members will read how something was done and why
- Then you can merge your well-reviewed and well-documented code
- **Test run your code after merging it!**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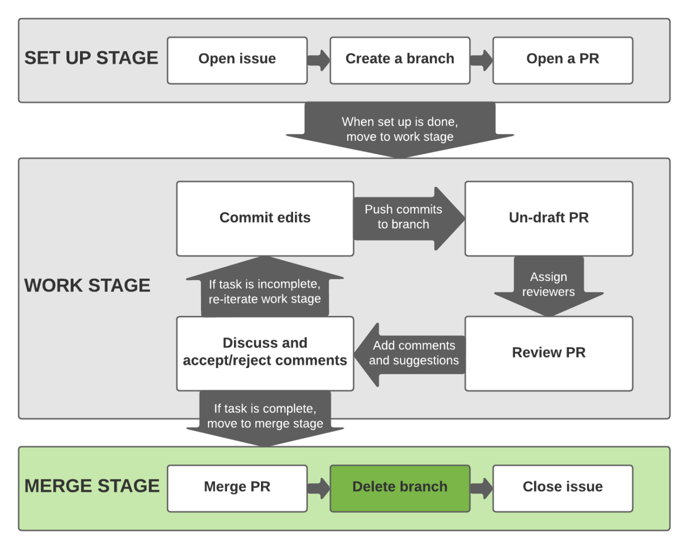
Delete the branch

- Always delete branches after they are merged
- If you want to keep working in a branch with the same name, then re-create that branch
- Otherwise you risk working on an outdated version of the repo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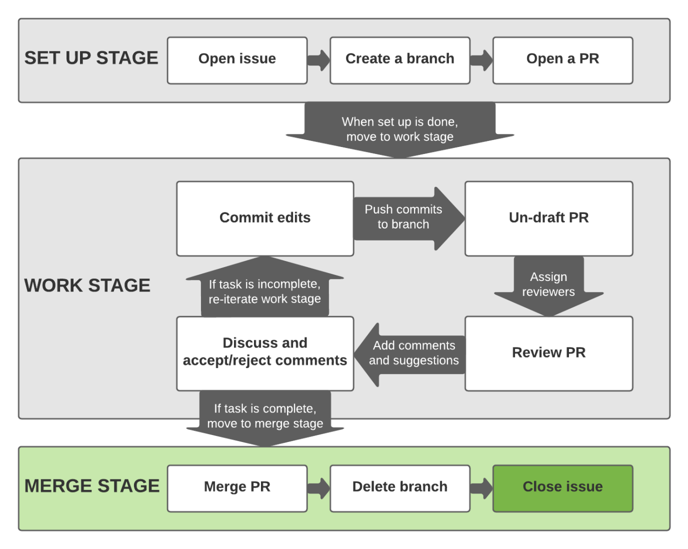
Close issue

If you created an issue for this task:

- Make sure that the PR number is referenced in the issue
- For example: *"Issue resolved in PR #12"*
- Then close the issue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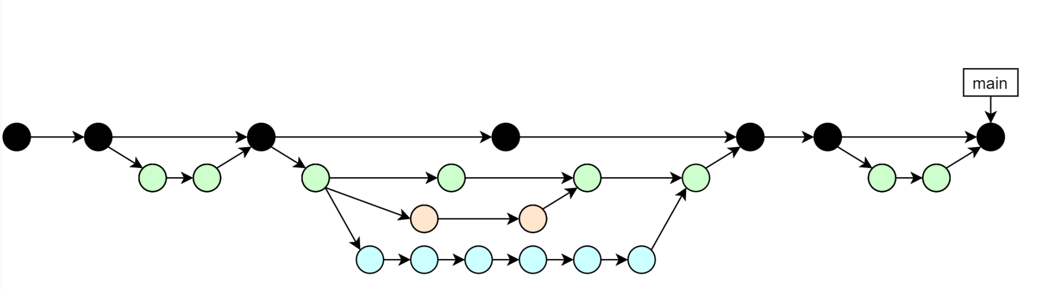
Part 2:
Gitflow - How to fit the “branch-PR-merge” cycle into your workflow

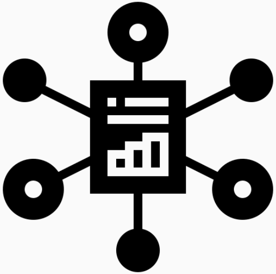
The network graph



- A typical git network graph - each dot is a commit
- Several branches have been opened and merged, but currently only the *main* branch is open

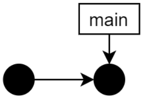
Gitflow

- **Gitflow** is an idea or a philosophy of how to organize work in git - it is not a software you install
- It is developed by computer scientists and you will find a lot of resources for it online
- We will present a simplified version adapted for research
- Two branch types (later we add a third type):
  - The **main branch** (formerly master branch) - should never be worked in directly
  - **Feature branches** - this is where you do all your work



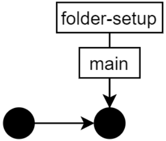
Simple branch-PR-merge cycle

Start a branch-PR-merge cycle



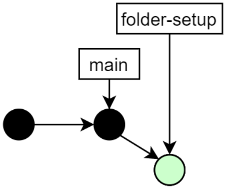
- This can either be the beginning of a repo or at a point where all previous branches were merged to the main branch
- Let's say your next task is to set up folders - apply the *branch-PR-merge* cycle

Set up stage - 1



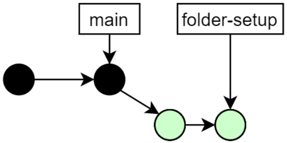
- Create a new *feature* branch at the point where you want the the *branch-PR-merge* cycle to start from
- Two branches pointing to the same commit are identical by definition

Set up stage - 2



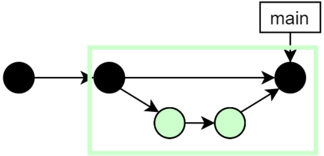
- Create a new short README or quickly edit an existing and commit - (or make a quick commit for the task) - at least one commit is needed to follow this workflow
- Open up a draft PR so there is a good place for your team to follow your work

Work stage



- Complete the task using one or many commits - in this example only one more commit was needed
- Assign someone to review the PR - iterate until you are all satisfied

Merge stage

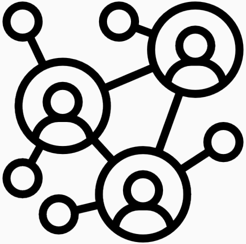


- Merge the PR and delete the *feature* branch
- The green box represents a full *branch-PR-merge* cycle in the network graph

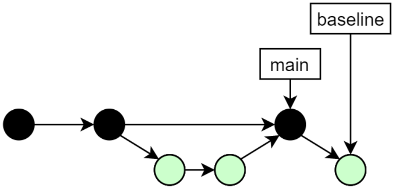
Nested branch-PR-merge cycles

Nested branch-PR-merge cycles

- Many high-level tasks are not simple - multiple team members working over multiple months
- Cleaning the baseline data, for example, is one big task composed of many smaller tasks
- Solve this by using nested *branch-PR-merge* cycles
- Third type of branch: **Develop branch** - a branch that is a high-level task that will have several *feature* branches

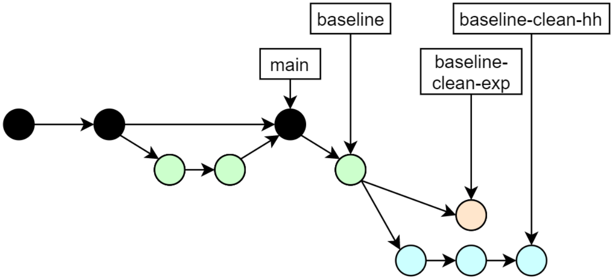


Create a develop branch



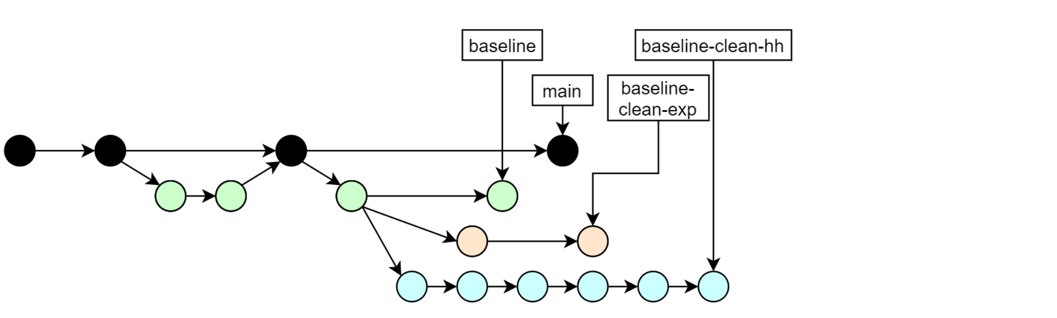
- Create a *develop* branch - name it after the high-level task - complete set up stage
- *Develop* branches often do not have a Github issue - but the *feature* branches off of it often have corresponding GitHub issues
- Include *develop* branch name as prefix to all *feature* branches off it

Create feature branches of the develop branch



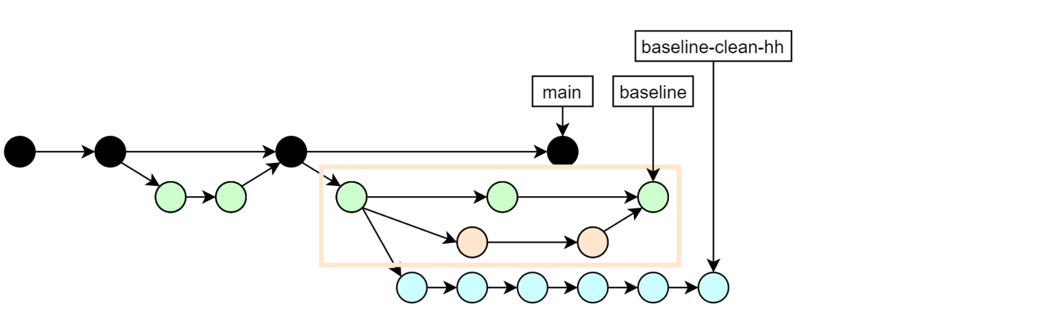
- Create as many *feature* branches off the *develop* branch as you need
- Split up the high-level task in as many smaller tasks as needed - try to split up tasks until each is small enough for one person to complete in max a week or two
- Create new *feature* branches off the *develop* branch even after it progresses

Work in the branches



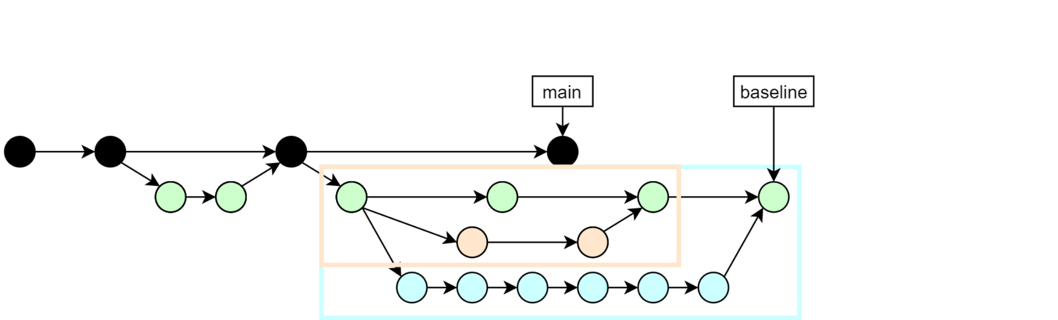
- Keep working on the *feature* branches until they are done
- When a task is complete: assign a reviewer - make comments/suggestions - accept/reject/discuss

Merge a feature branch



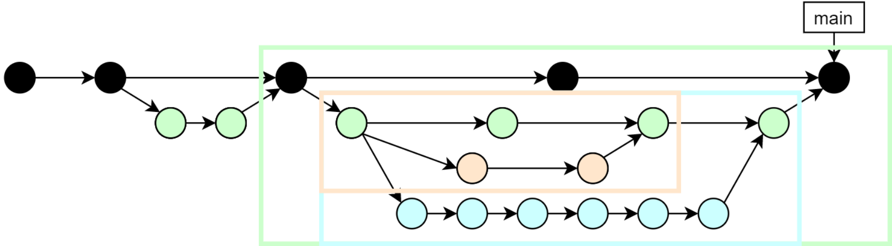
- The branch `baseline-clean-exp` was approved in the last step in the work stage and was merged and deleted in the merge stage
- The orange box is one *branch-PR-merge* cycle

Merge a feature branch



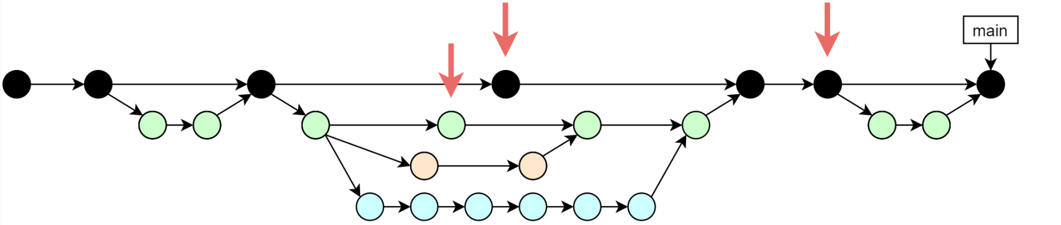
- The branch `baseline-clean-hh` was then also approved in the last step in the work stage and was merged and deleted in the merge stage
- The blue box is also a *branch-PR-merge* cycle

Merge a develop branch



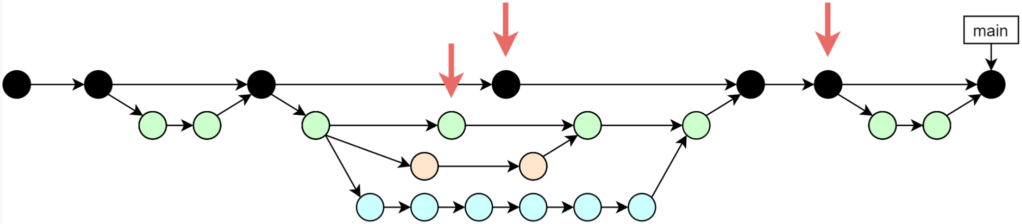
- Then the branch `baseline` is ready for a review - assign a reviewer - comment/suggest - accept/reject/discuss
- The green box is also a *branch-PR-merge* cycle
- This network graph shows a nested *branch-PR-merge* cycle

Work directly in main/develop



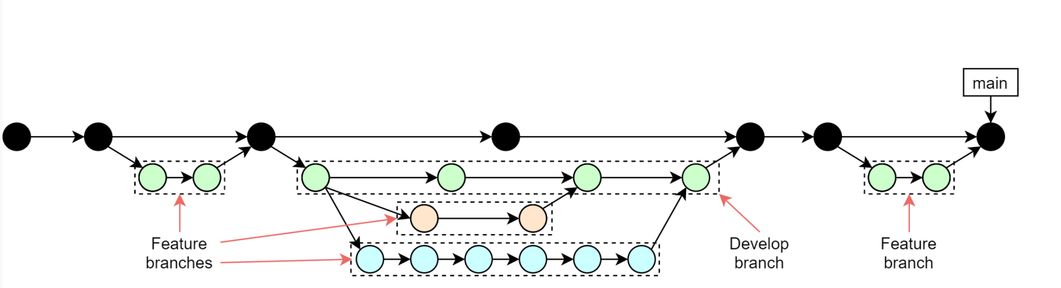
- When could it be ok to work directly on a *main/develop* branch? - see red arrows

Work directly in main/develop



- When could it be ok to work directly on a *main*/*develop* branch? - see red arrows
- When updating documentation!
  - Documentation about the repo in the *main* branch
  - Documentation about the high-level task in the *develop* branch

The network graph



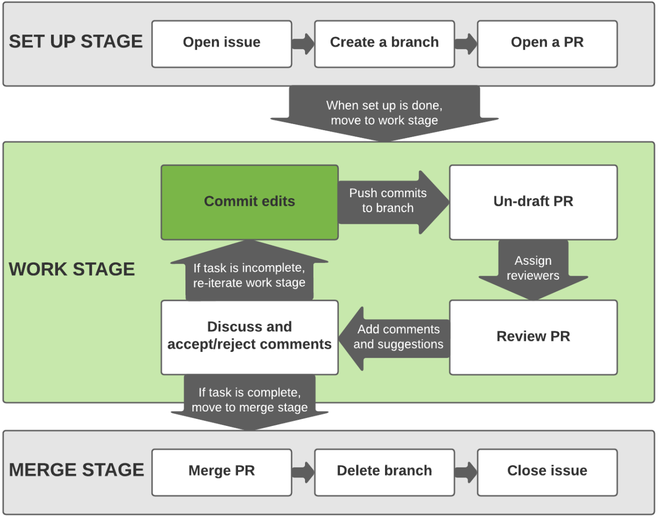
- There is no technical git difference between the Gitflow types of branches - the only difference is what workflow that is expected
  - **Main branch**: The branch where all branches originates from
  - **Develop branch**: Non-*main* branch with *feature* branches
  - **Feature branch**: Branches of the *main* branch or *develop* branches with no other branches from it

Nest cycles in the work stage

- *Branch-PR-merge* cycles should be nested in the work stage

- The *develop* branch is kept in the *Commit edits* step while the *branch-PR-merge* cycles are completed for the feature branches

- If needed, convert a *feature* branch to a *develop* branch here


SET UP STAGE
Open issue
Create a branch
Open a PR
When set up is done, move to work stage
WORK STAGE
Commit edits
Push commits to branch
Un-draft PR
Assign reviewers
Review PR
Add comments and suggestions
Discuss and accept/reject comments
If task is incomplete, re-iterate work stage
If task is complete, move to merge stage
MERGE STAGE
Merge PR
Delete branch
Close issue

Thank you!

Questions?

Slides can be found here: `https://osf.io/e54gy/`

Useful links

- All DIME Analytics GitHub trainings: https://osf.io/e54gy/
- Other DIME Analytics GitHub resources: https://github.com/worldbank/dime-github-trainings. For example:
  - DIME Analytics GitHub Templates (for example .gitignore): https://github.com/worldbank/dime-github-trainings/tree/master/GitHub-resources/DIME-GitHub-Templates
  - DIME Analytics GitHub Roles: https://github.com/worldbank/dime-github-trainings/blob/master/GitHub-resources/DIME-GitHub-Roles/DIME-GitHub-roles.md
- Markdown cheat sheet (how to format text on GitHub.com): https://www.markdownguide.org/cheat-sheet/
- DIME GitHub Account admin info and instructions: https://github.com/dime-worldbank/dime-account-admin

LaTeX/Git Version control

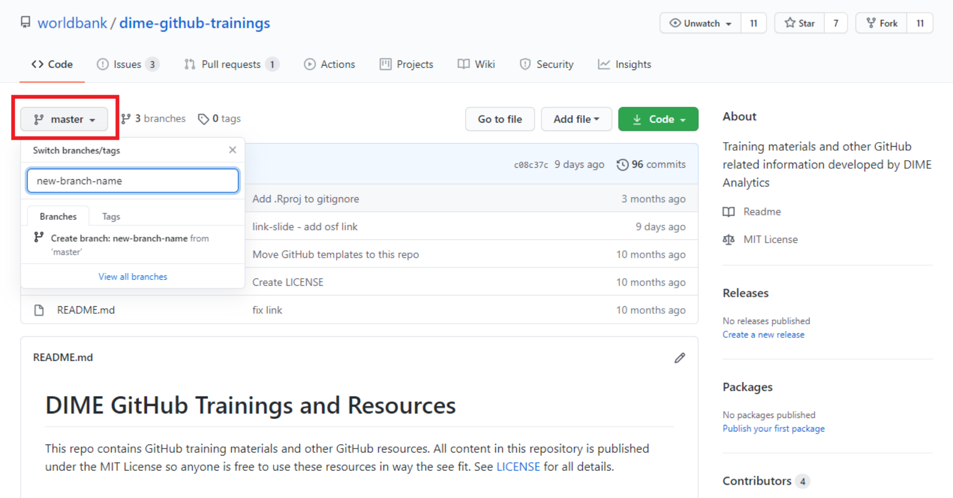
Most recent commit at the point of compiling this LaTeX Beamer presentation:

`https://github.com/worldbank/dime-github-trainings/commit/40a95f94162e500dc0d10c38ede0ed4cbe43877b`

For instructions on how to include URLs to most recent commit used to generate document in Git, see: `https://gist.github.com/kbjarkefur/88820e5a5365b3f707b6b20aee57cf8a`

Appendix

Create branch on GitHub.com



Add .Rproj to gitignore	3 months ago
link-slide - add osf link	9 days ago
Move GitHub templates to this repo	10 months ago
Create LICENSE	10 months ago
fix link	10 months ago

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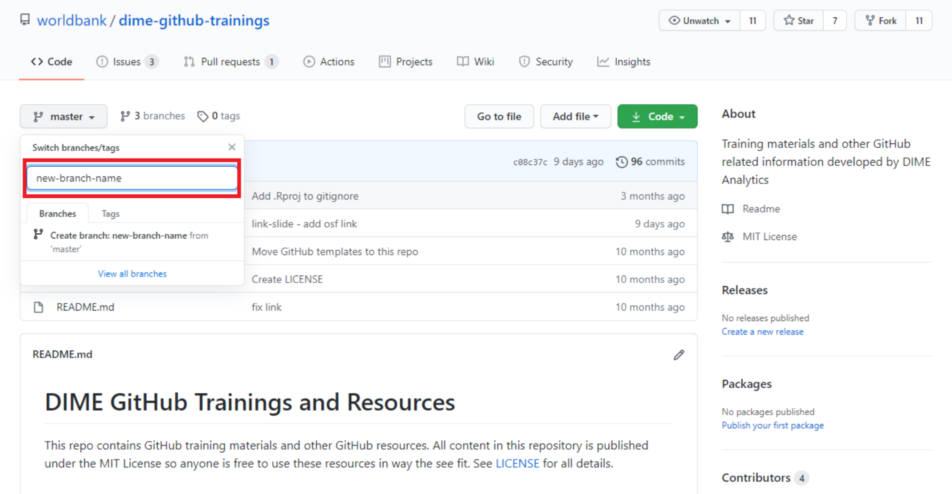

worldbank / dime-github-trainings

new-branch-name

Create branch: new-branch-name from 'master'

	Add .Rproj to gitignore	3 months ago
	link-slide - add osf link	9 days ago
	Move GitHub templates to this repo	10 months ago
	Create LICENSE	10 months ago
README.md	fix link	10 months ago

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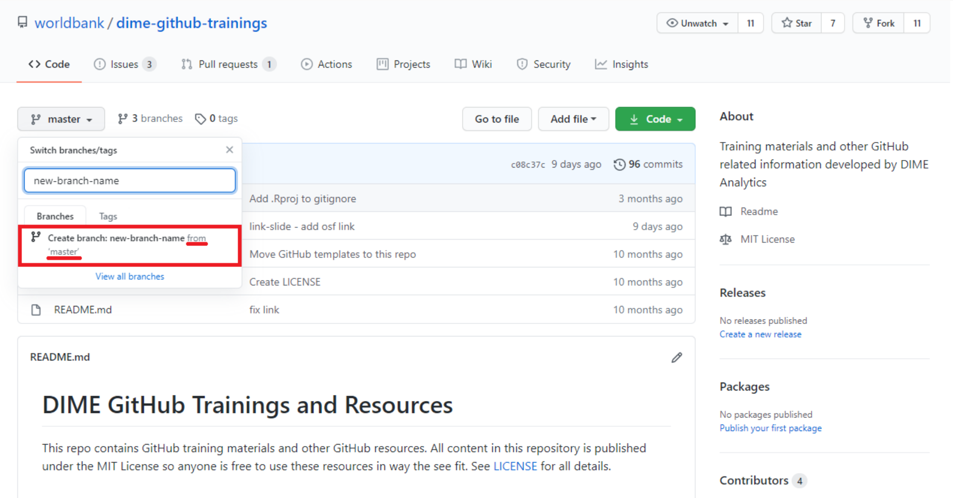

new-branch-name

Create branch: new-branch-name from 'master'

c08c37c 9 days ago 96 commits

Add .Rproj to gitignore 3 months ago

link-slide - add osf link 9 days ago

Move GitHub templates to this repo 10 months ago

Create LICENSE 10 months ago

README.md fix link 10 months ago

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