

# Git and GitHub

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# Anouncements

- Books for the class – the books are recommended

## Overview Page

### Literature

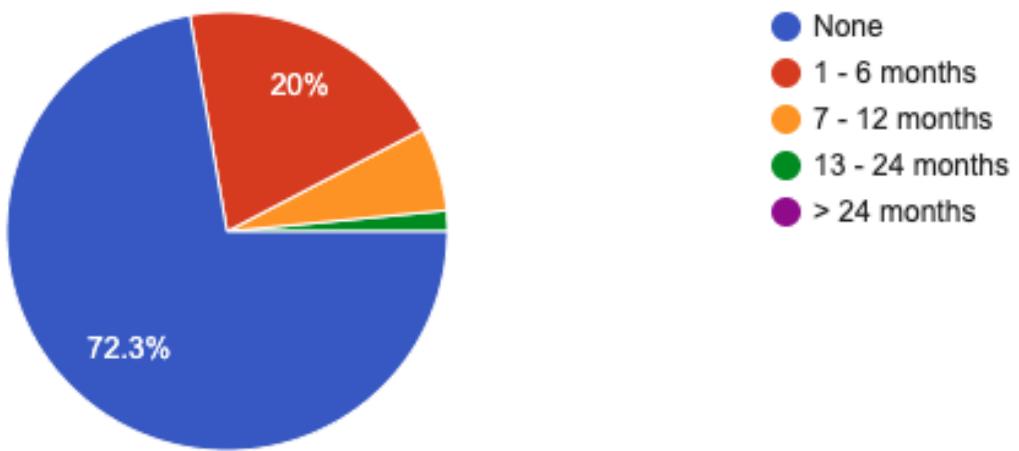
The following book is recommended as general background information to the course. They are available in the library.

1. Design Patterns: Elements of Reusable Object-Oriented Software, Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides
2. Design Patterns in Modern C++: Reusable Approaches for Object-Oriented Software Design
3. Object-Oriented Analysis, Design and Implementation
4. Using UML : Software Engineering with Objects and Components
5. Pro Git, available for free at: <https://git-scm.com/book/en/v2>
6. Dathan, B., Ramnath, S. (2015). Introduction. In: Object-Oriented Analysis, Design and Implementation. Undergraduate Topics in Computer Science. Springer, Cham. [https://doi.org/10.1007/978-3-319-24280-4\\_1](https://doi.org/10.1007/978-3-319-24280-4_1)
7. Cooperative Software Development, Amy Ko, available for free: [Book Site](#)

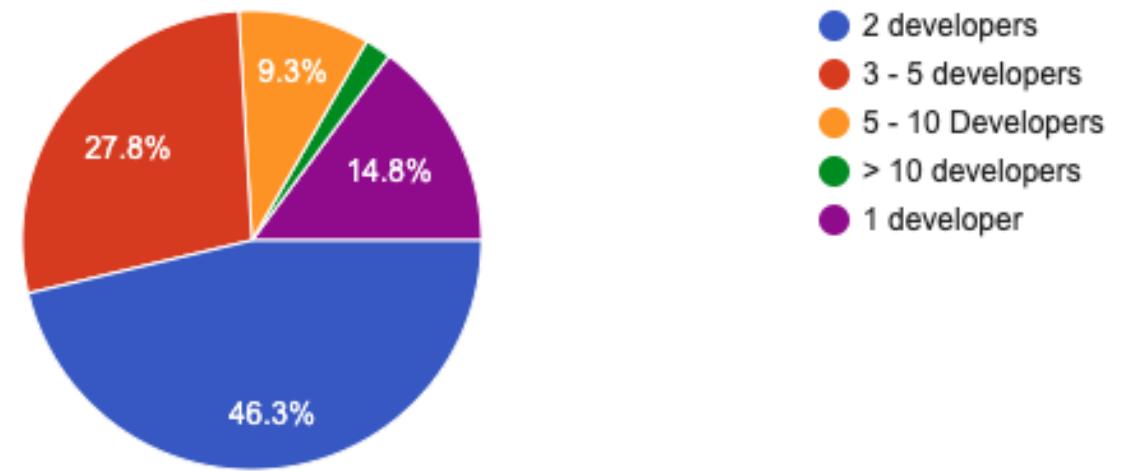
- You should be able to do Part 1 of the “**Git and GitHub Lab**”
- Begin discussing your project ideas - Precondition report due (01/31)
- Weekly meetings - 12 – 15 meeting minutes are expected ([Minutes template](#))
- At least 50% of meetings should be physical
- Team discussions on Discord and Meeting minutes are part of the evaluation

# Teams

Industry software development experience



Software development team size

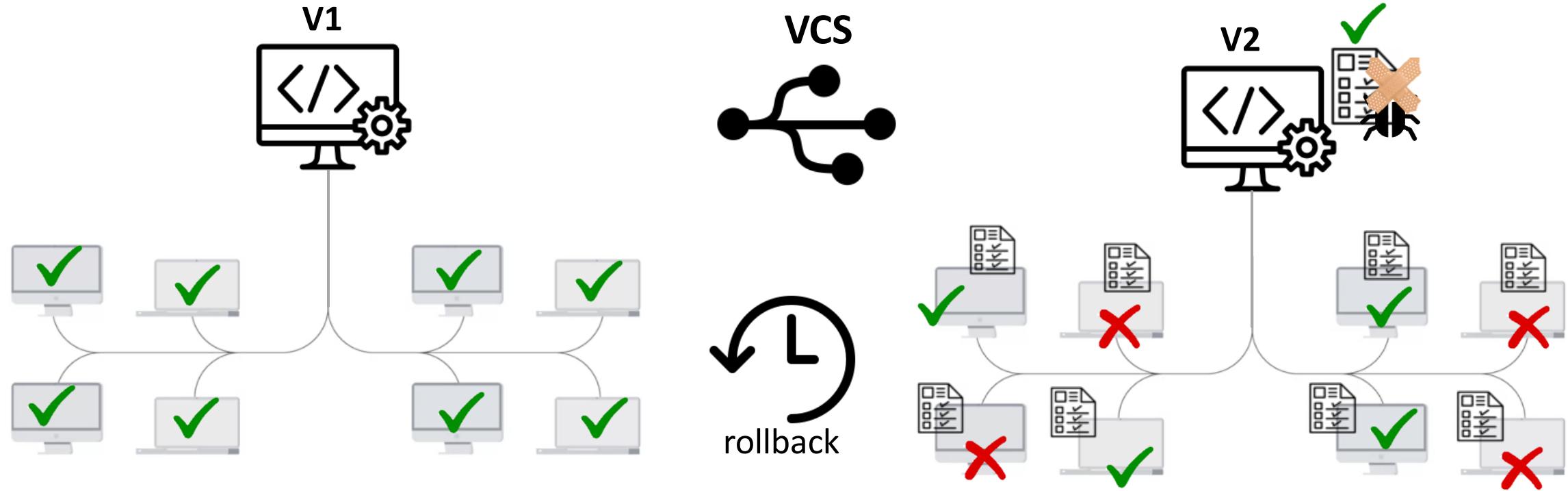


- 1 in 5 have some experience
- Great ideas shared
- Do not focus on how easy it is to develop the idea, challenge yourselves
- We are aiming at the MVP – learning process and not delivery

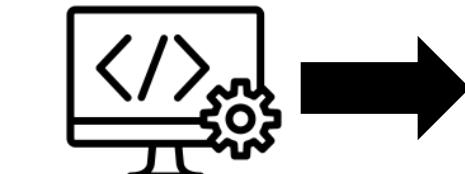
# Git and GitHub

- These are tools that everyone in IT can benefit from, even if it's not just for programming.
- The tools will allow one to roll back when mistakes happen and help teams collaborate easily.
- Nowadays, lots of employers will ask to see your GitHub portfolio when you're interviewing for IT roles.
- GitHub portfolios give companies an idea of what projects you've worked on and what kind of code you can write.

# Git & GitHub - version Control



# git



Software project  
development

## Project Files

- Code
- Tests
- Documentation
- Configuration

# What is Git?

- Git is a free open-source system available for Installation on Unix-based platforms, Windows, and macOS.
- Git is now one of the most popular version control systems out there and is used in millions of projects.
- One resource I like, and I recommend digging through is this free book:  
<http://git-scm.com/book/en/v2>
- Another is Stack Overflow
- And if you are really, really stuck, the formal documentation: <http://git-scm.com/documentation>



# Working with Git

There are two ways to start working with a git repository:

- **git init** - creating a repository from scratch
- **git clone** - a repository already exists somewhere else on a remote site

```
businge@Johns-MacBook-Pro-2 ~ % mkdir checks
businge@Johns-MacBook-Pro-2 ~ % cd checks
businge@Johns-MacBook-Pro-2 checks % git init
Initialized empty Git repository in /Users/businge/checks/.git/
businge@Johns-MacBook-Pro-2 checks % ls -la
total 0
drwxr-xr-x  3 businge  staff   96 Dec  2 17:51 .
drwxr-xr-x+ 85 businge  staff  2720 Dec  2 17:51 ..
drwxr-xr-x  9 businge  staff   288 Dec  2 17:51 .git
businge@Johns-MacBook-Pro-2 checks % ls -l .git/
total 24
-rw-r--r--  1 businge  staff   23 Dec  2 17:51 HEAD
-rw-r--r--  1 businge  staff  137 Dec  2 17:51 config
-rw xr-xr-x  1 businge  staff   73 Dec  2 17:51 description
drwxr-xr-x 14 businge  staff  448 Dec  2 17:51 hooks
drwxr-xr-x  3 businge  staff   96 Dec  2 17:51 info
drwxr-xr-x  4 businge  staff  128 Dec  2 17:51 objects
drwxr-xr-x  4 businge  staff  128 Dec  2 17:51 refs
businge@Johns-MacBook-Pro-2 checks %
```

Run

Empty working tree/directory

Git directory

Git history/changes

Bunch of files



# Working with Git

```
businge@Johns-MacBook-Pro-2 checks % cp ..../menu1.txt .
businge@Johns-MacBook-Pro-2 checks % ls -l
total 8
-rw-r--r-- 1 businge staff 41 Dec 2 19:19 menu1.txt
businge@Johns-MacBook-Pro-2 checks % git add menu1.txt
businge@Johns-MacBook-Pro-2 checks % git status
On branch master

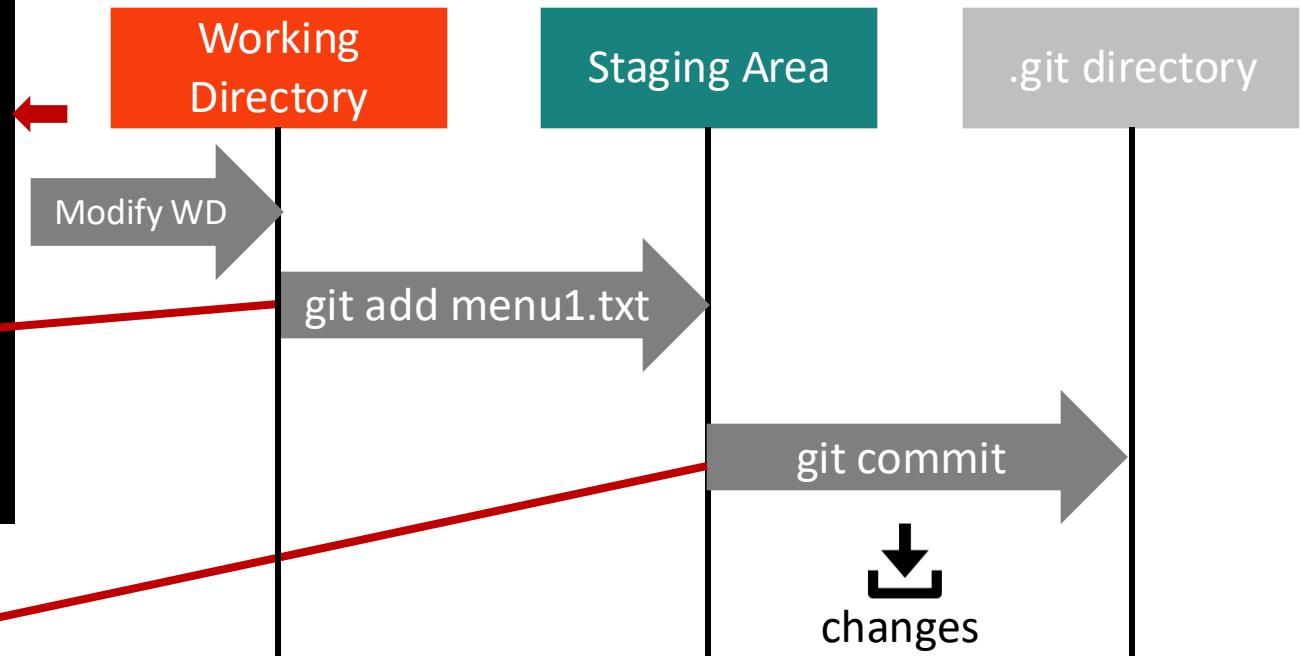
No commits yet
```

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   menu1.txt
```

```
add new menu.txt
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch master
#
# Initial commit
#
# Changes to be committed:
#       new file:   menu1.txt
#
```

Working directory – add menu1.txt

## The Git WorkFlow



# What makes a good commit message?

```
* 7d0fc3e typo  
* 8fc509a more changes  
* efe5fc5 add test  
* 447c5a0 updates  
* 1189cf0 update condition  
* 68abca0 updates  
* 29f73ed more changes  
* cefaa18 add file
```



<https://www.freecodecamp.org/news/a-beginners-guide-to-git-how-to-write-a-good-commit-message/>

## Short Commit Message

- Under 50 characters

## Detailed Commit Message

- One or more paragraphs, if needed
- Lines kept under 72 characters

### 1 Present Tense Summary of Code Change

```
2  
3 One or two paragraphs explaining what was tried and why  
4 the changes I've made where needed. Maybe even some  
5 links to resources where more information can be found.  
6 The main thing to think about is **why**. Pretend you  
7 will need to look at this in 20 years to answer that  
8 question, it will help.
```

<http://benfalk.com/blog/2015/10/20/commits-that-matter/>



```
user@ubuntu: $ cat example_commit.txt  
Provide a good commit message example
```

The purpose of this commit is to provide an example of a hand-crafted, artisanal commit message. The first line is a short, approximately 50 character summary, followed by an empty line. The subsequent paragraphs are jam-packed with descriptive information about the change, but each line is kept under 72 characters in length.

If even more information is needed to explain the change, more paragraphs can be added after blank lines, with links to issues, tickets, or bugs. Remember that future you will thank current you for your thoughtfulness and foresight!

```
# Please enter the commit message for your changes. Lines starting  
# with '#' will be ignored, and an empty message aborts the commit.  
#  
# On branch master  
#  
# Changes to be committed:  
# new file: super_script.py  
# new file: cool_config.txt  
#
```

<https://initialcommit.com/blog/git-commit-messages-best-practices>

# Getting More Information About Our Changes

- `git log`
- `git log -p`
- `git log --stat`
- `git show <commit-ID>`

## `git log -p`

```
businge@Johns-MacBook-Pro-2 checks % git log -p
commit 71518969420f647dc932ac5fd613c01b3b9142d1 (HEAD -> master)
Author: johnxu21 <johnxu21@gmail.com>
Date:   Fri Dec 2 19:26:00 2022 -0800

add new menu.txt
```

```
diff --git a/menu1.txt b/menu1.txt
new file mode 100644
index 000000..d12a6b5
--- /dev/null
+++ b/menu1.txt
@@ -0,0 +1,6 @@
+Menu:
+
+Apples
+Bananas
+Grapes
+Strawberries
```

## `git log`

```
create mode 100644 menu1.txt
businge@Johns-MacBook-Pro-2 checks % git log
commit 71518969420f647dc932ac5fd613c01b3b9142d1 (HEAD -> master)
Author: johnxu21 <johnxu21@gmail.com>
Date:   Fri Dec 2 19:26:00 2022 -0800

add new menu.txt
```

## `git log --stat`

```
businge@Johns-MacBook-Pro-2 checks % git log --stat
commit 71518969420f647dc932ac5fd613c01b3b9142d1 (HEAD -> master)
Author: johnxu21 <johnxu21@gmail.com>
Date:   Fri Dec 2 19:26:00 2022 -0800
```

```
add new menu.txt
```

```
menu1.txt | 6 ++++++
1 file changed, 6 insertions(+)
```

## menu1.txt

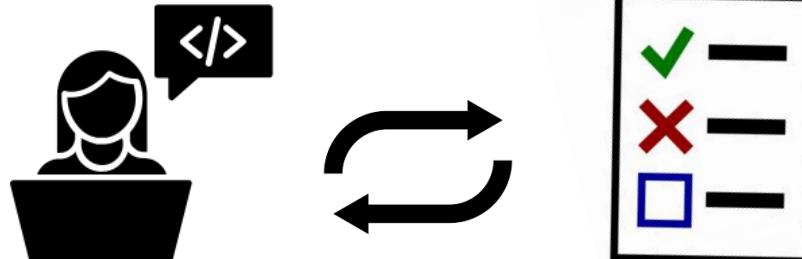
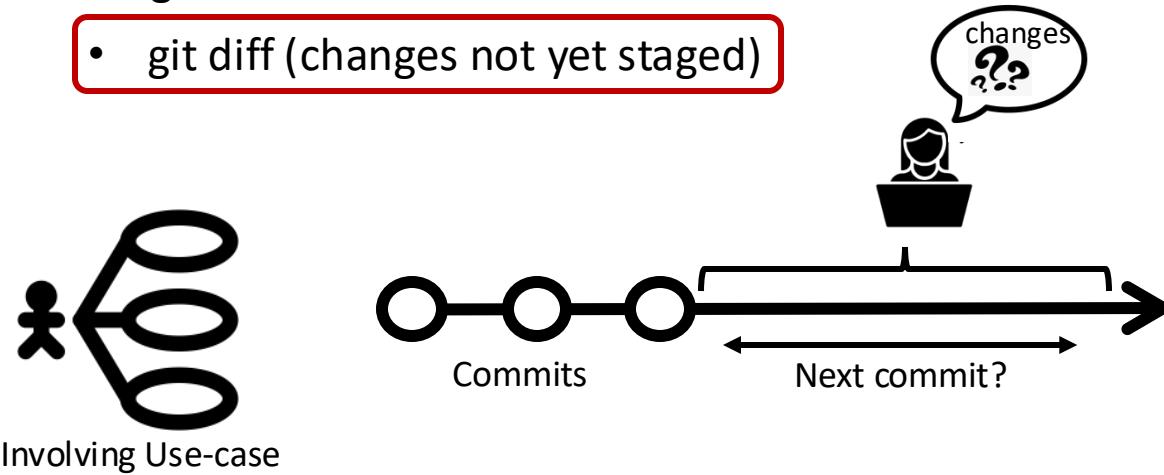
```
Menu:
+
Apples
Bananas
Grapes
Strawberries
```

Recall that we have one commit in our git repository

# Getting More Information About Our Changes

- git log
- git log -p
- git log --stat
- git show <commit-ID>
- git diff (changes not yet staged)

- Changes
- Staged/
  - committed



menu1.txt

Menu1:  
Apples  
Bananas  
Oranges  
Pears

menu1.txt

Menu1:  
Apples  
Bananas  
Oranges  
Strawberry **Pears**

Unstaged changes

```
businge@Johns-MacBook-Pro-2 checks % git diff
diff --git a/menu1.txt b/menu1.txt
index e7c5c1c..5a429ff 100644
--- a/menu1.txt
+++ b/menu1.txt
@@ -3,4 +3,4 @@ Menu:
 Apples
 Bananas
 Grapes
-Pears
+Strawberries
```

# Deleting and Renaming Files

```
businge@Johns-MacBook-Pro-2 checks % ls -l
total 16
-rw-r--r-- 1 businge staff 42 Dec 3 15:42 menu1.txt
-rw-r--r-- 1 businge staff 41 Dec 3 16:30 menu2.txt
businge@Johns-MacBook-Pro-2 checks % git rm menu1.txt
rm 'menu1.txt'
businge@Johns-MacBook-Pro-2 checks % ls -l
total 8
-rw-r--r-- 1 businge staff 41 Dec 3 16:30 menu2.txt
businge@Johns-MacBook-Pro-2 checks % git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:   menu1.txt

businge@Johns-MacBook-Pro-2 checks % git commit -m 'deleted the unneeded menu1.txt file'
[master 735008a] deleted the unneeded menu1.txt file
 1 file changed, 6 deletions(-)
 delete mode 100644 menu1.txt
```

**menu1.txt**

Menu1:  
Apples  
Bananas  
Oranges  
Strawberry

**menu2.txt**

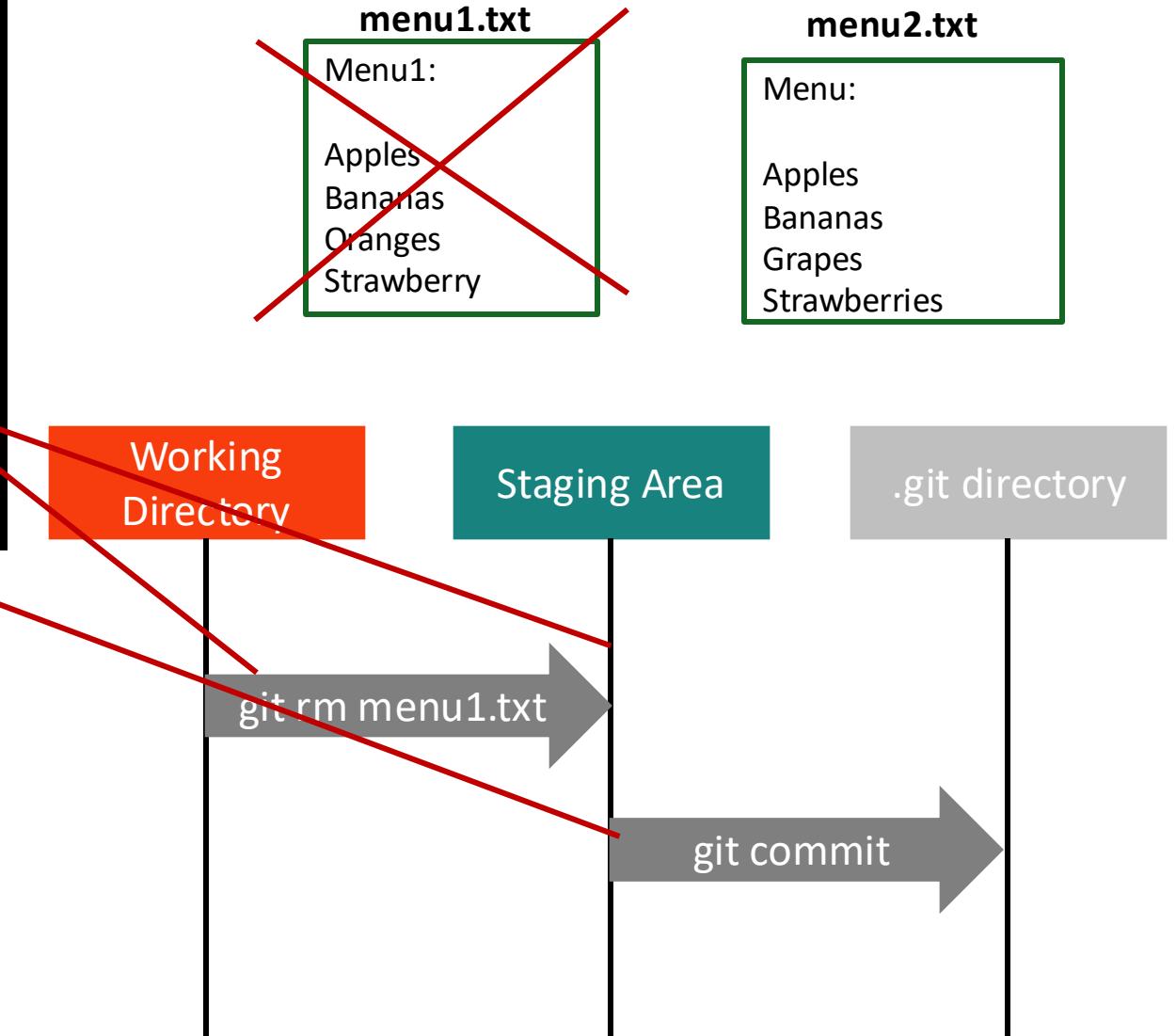
Menu:  
Apples  
Bananas  
Grapes  
Strawberries

**Linux**

- rm
- mv

**Git**

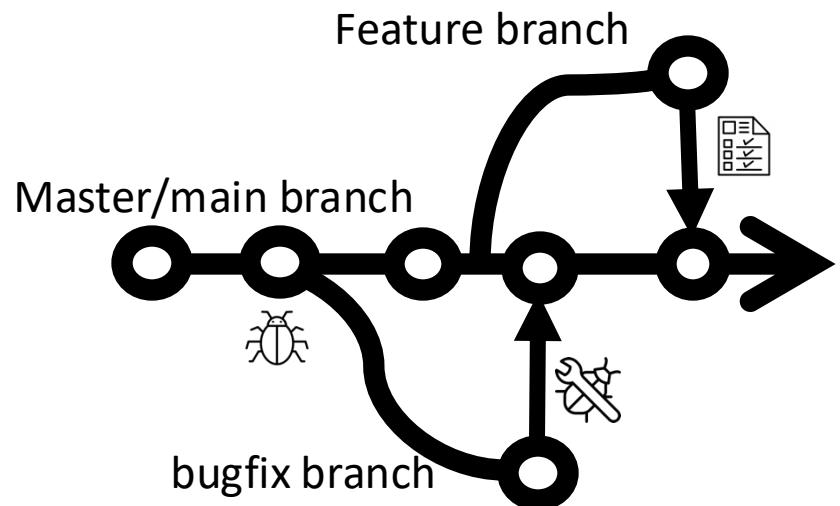
- git rm
- git mv



# More git commands resources

Command	Explanation & Link
git commit -a	<a href="#">Stages files automatically</a>
git log -p	<a href="#">Produces patch text</a>
git show	<a href="#">Shows various objects</a>
git diff	<a href="#">Is similar to the Linux `diff` command, and can show the differences in various commits</a>
git diff --staged	<a href="#">An alias to --cached, this will show all staged files compared to the named commit</a>
git add -p	<a href="#">Allows a user to interactively review patches to add to the current commit</a>
git mv	<a href="#">Similar to the Linux `mv` command, this moves a file</a>
git rm	<a href="#">Similar to the Linux `rm` command, this deletes, or removes a file</a>

# Branching and Merging



Branches are an important part of the Git workflow.

What is a branch?

- A branch represents an independent line of development in a project.
- Branching is a common practice in software development.

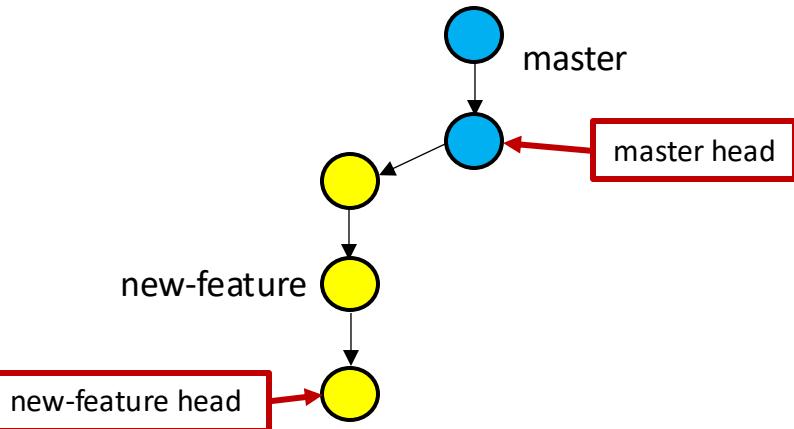
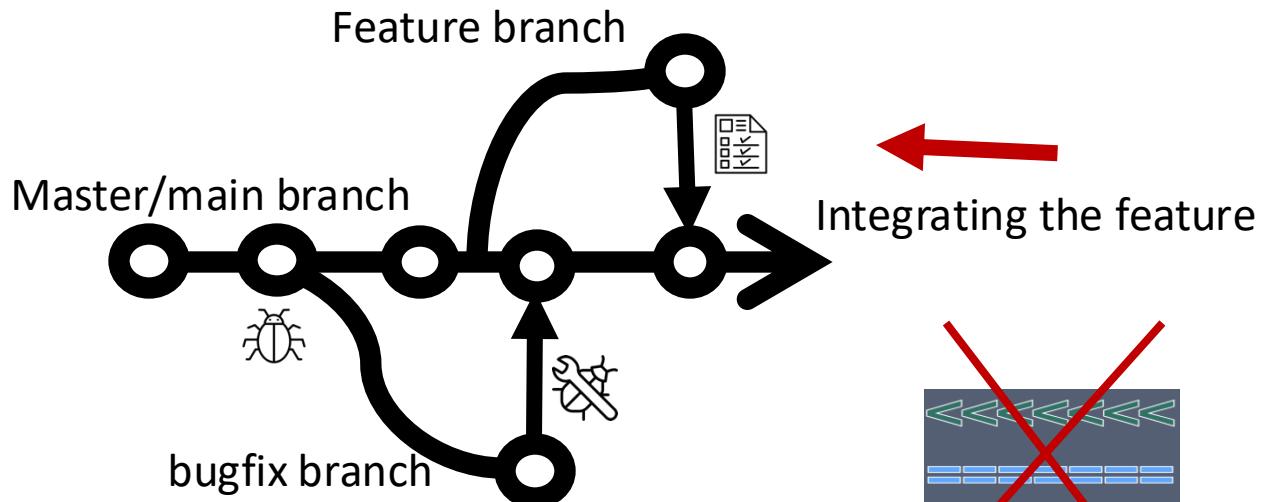
```
businge@Johns-MacBook-Pro-2 checks % git branch
* master
businge@Johns-MacBook-Pro-2 checks % git branch new-feature
businge@Johns-MacBook-Pro-2 checks % git branch
* master
new-feature
businge@Johns-MacBook-Pro-2 checks % git checkout new-feature
Switched to branch 'new-feature'
businge@Johns-MacBook-Pro-2 checks % git branch
  master
* new-feature
businge@Johns-MacBook-Pro-2 checks % git checkout -b bug-fixing
Switched to a new branch 'bug-fixing'
businge@Johns-MacBook-Pro-2 checks % git branch
* bug-fixing
  master
  new-feature
```

```
businge@Johns-MacBook-Pro-2 checks % git checkout new-feature
Switched to branch 'new-feature'
businge@Johns-MacBook-Pro-2 checks % atom memory.py
businge@Johns-MacBook-Pro-2 checks % git add memory.py
businge@Johns-MacBook-Pro-2 checks % git commit -m 'Add an empty memory.py'
[new-feature a957a46] Add an empty memory.py
1 file changed, 4 insertions(+)
create mode 100644 memory.py
businge@Johns-MacBook-Pro-2 checks % git log -2
commit a957a462b5f9bb2ab8dc979f2c5eaf689f8fbfa7 (HEAD -> new-feature)
Author: johnxu21 <johnxu21@gmail.com>
Date:   Sun Dec 4 12:43:35 2022 -0800

    Add an empty memory.py

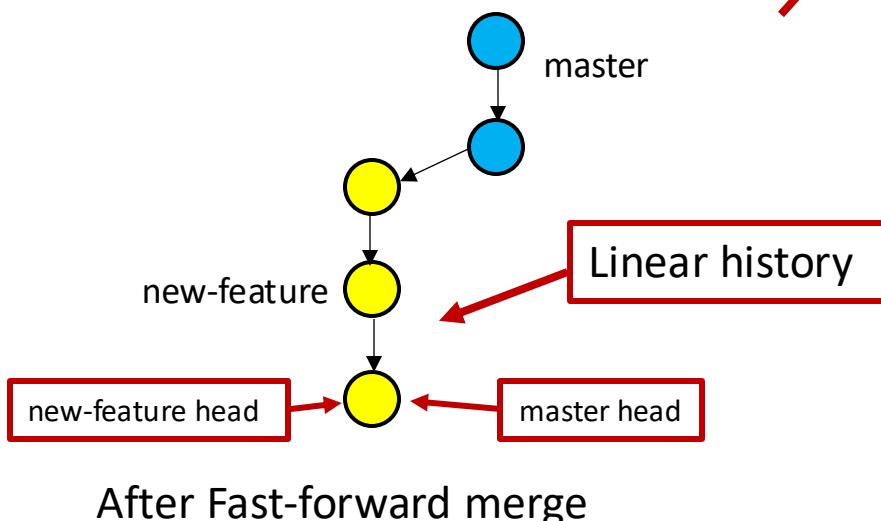
commit 2894d366f59bc7000e3736f8022faad3af003bc5 (master, bug-fixing)
Author: johnxu21 <johnxu21@gmail.com>
Date:   Sat Dec 3 19:07:02 2022 -0800
```

# Branching and Merging



## Merge Algorithms

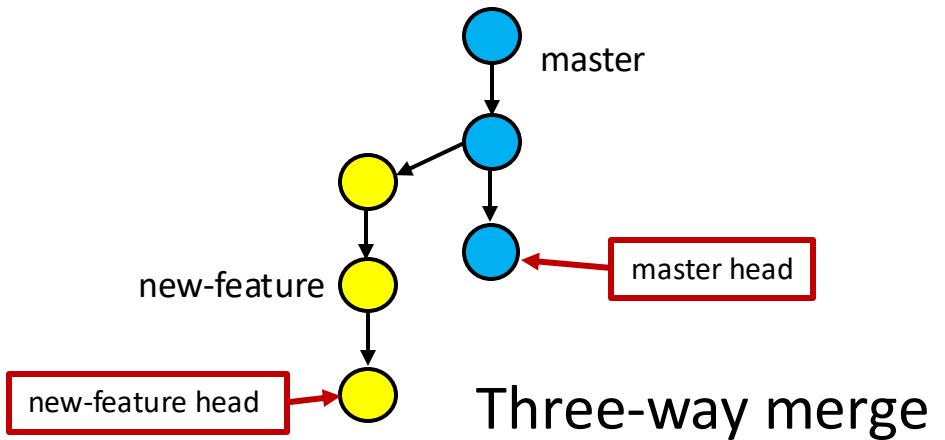
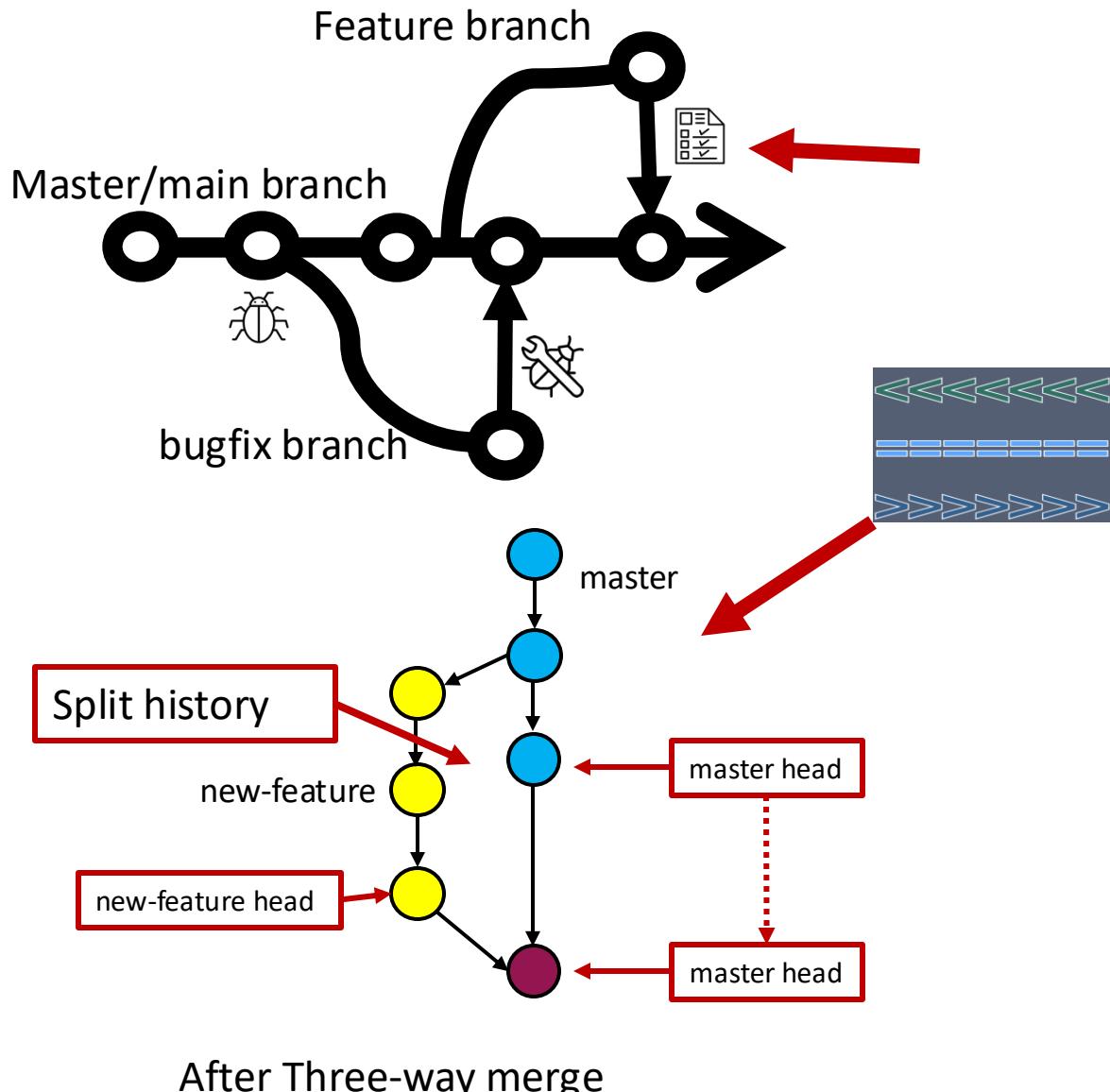
- Fast-forward – not diverged
- Three-way merge - diverged



## Fast-forward

```
businge@Johns-MacBook-Pro-2 checks % git checkout master
Switched to branch 'master'
businge@Johns-MacBook-Pro-2 checks % git merge new-feature
Updating 2894d36..a957a46
Fast-forward
  memory.py | 4 +++
  1 file changed, 4 insertions(+)
  create mode 100644 memory.py
businge@Johns-MacBook-Pro-2 checks % git log
commit a957a462b5f9bb2ab8dc979f2c5eaf689f8fbfa7 (HEAD -> master, new-feature)
```

# Branching and Merging



## Merge Algorithms

- Fast-forward – not diverged
- Three-way merge - diverged

## Three-way merge

```
businge@Johns-MacBook-Pro-2 checks % git checkout master
Switched to branch 'master'
businge@Johns-MacBook-Pro-2 checks % git merge new-feature
Updating 2894d36..a957a46
  memory.py | 4 +++
  1 file changed, 4 insertions(+)
  create mode 100644 memory.py
businge@Johns-MacBook-Pro-2 checks % git log --graph --oneline
*   a6ad632 (HEAD -> master) Merge branch 'new-feature'
|\ \
| * bf88595 (new-feature) Print everhting is OK
* | 0a92c31 Add comment to main()
|\ /
* a957a46 Add an empty memory.py
```

# Merge Conflicts

```
businge@Johns-MacBook-Pro-2 checks % atom memory.py
businge@Johns-MacBook-Pro-2 checks % git commit -a -m 'Add comment to main()'
[master 0a92c31] Add comment to main()
 1 file changed, 1 insertion(+), 1 deletion(-)
businge@Johns-MacBook-Pro-2 checks % git checkout new-feature
Switched to branch 'new-feature'
businge@Johns-MacBook-Pro-2 checks % atom memory.py
businge@Johns-MacBook-Pro-2 checks % git commit -a -m 'Print everhting is OK'
[new-feature bf88595] Print everhting is OK
 1 file changed, 1 insertion(+), 1 deletion(-)
businge@Johns-MacBook-Pro-2 checks % git checkout master
Switched to branch 'master'
businge@Johns-MacBook-Pro-2 checks % git merge new-feature
Auto-merging memory.py
CONFLICT (content): Merge conflict in memory.py
Automatic merge failed; fix conflicts and then commit the result.
```

```
businge@Johns-MacBook-Pro-2 checks % git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:   memory.py

no changes added to commit (use "git add" and/or "git commit -a")
```

memory.py (at master)

```
Use me ... our changes
<<<<< HEAD
  "Check if there is enough memory"
=====
  print("Everhting is OK!")
>>>>> new-feature
Use me ... their changes
Keep both
Use me ... our changes
  "Check if there is enough memory"
  print("Everhting is OK!")

businge@Johns-MacBook-Pro-2 checks % git add memory.py
businge@Johns-MacBook-Pro-2 checks % git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

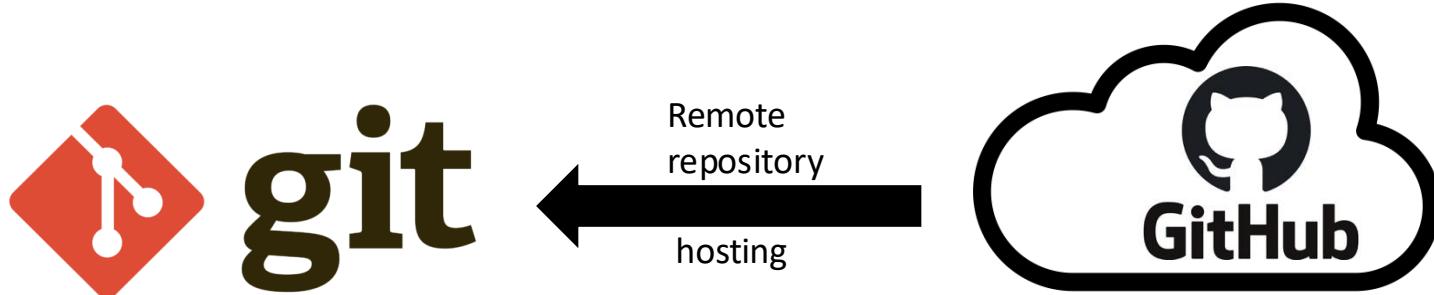
Changes to be committed:
  modified:   memory.py

businge@Johns-MacBook-Pro-2 checks % git commit
[master a6ad632] Merge branch 'new-feature'
businge@Johns-MacBook-Pro-2 checks % git log --graph --oneline
* a6ad632 (HEAD -> master) Merge branch 'new-feature'
|\ 
| * bf88595 (new-feature) Print everhting is OK
* | 0a92c31 Add comment to main()
|/
* a957a46 Add an empty memory.py
```

# More Resources on Branches and Merging

Command	Explanation & Link
git branch	<a href="#">Used to manage branches</a>
git branch <name>	<a href="#">Creates the branch</a>
git branch -d <name>	<a href="#">Deletes the branch</a>
git branch -D <name>	<a href="#">Forcibly deletes the branch</a>
git checkout <branch>	<a href="#">Switches to a branch.</a>
git checkout -b <branch>	Creates a new branch and <a href="#">switches to it</a> .
git merge <branch>	<a href="#">Merge joins branches together.</a>
git merge --abort	If there are merge conflicts (meaning files are incompatible), --abort can be used to abort the merge action.
git log --graph --oneline	<a href="#">This shows a summarized view of the commit history for a repo.</a>
git rebase	You can also use <a href="#">git rebase branchname</a> to change the base of the current branch to be branchname

# Intro to GitHub



# Announcements

- Senior Design Competition – Molly Marks visit (09/11/2024)
  - Data link: <https://forms.gle/AyC1KgSdXYwUAchw5>
- Discord Conversations – Group 1 please get up to speed
  - @devi is not part of your team. He was a TA last semester. We will get him removed
- Weekly group meetings on the project: [Template for the minutes](#)
- Start working on your [Precondition report](#) ASAP

# Interacting with GitHub

- **git init**
- **git clone**

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Owner \* Repository name \*

johnxu21 / 472-2023 ✓

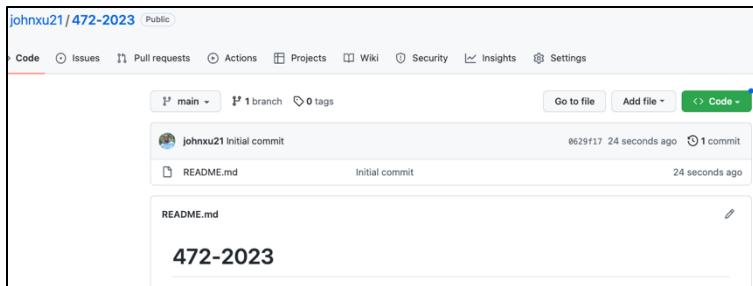
Great repository names are short and memorable. Need inspiration? How about [stunning-parakeet](#)?

Description (optional)

Class content for 472 class

Public Anyone on the internet can see this repository. You choose who can commit.

Private You choose who can see and commit to this repository.



```
businge@Johns-MacBook-Pro-2 checks % git clone https://github.com/johnxu21/472-2023.git
Cloning into '472-2023'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
businge@Johns-MacBook-Pro-2 checks % cd 472-2023
businge@Johns-MacBook-Pro-2 472-2023 % ls -l
total 8
-rw-r--r-- 1 businge staff 10 Dec 5 15:44 README.md
businge@Johns-MacBook-Pro-2 472-2023 % atom README.md
businge@Johns-MacBook-Pro-2 472-2023 % git commit -a -m 'Add one more line in the README.md'
[main fdfe19] Add one more line in the README.md
 1 file changed, 3 insertions(+), 1 deletion(-)
businge@Johns-MacBook-Pro-2 472-2023 % git push
info: please complete authentication in your browser...
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 361 bytes | 361.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/johnxu21/472-2023.git
 0629f17..fdfe19 main -> main
```

johnxu21 Add one more line in the README.md fdfe19 3 minutes ago 2 commits

README.md Add one more line in the README.md 3 minutes ago

README.md

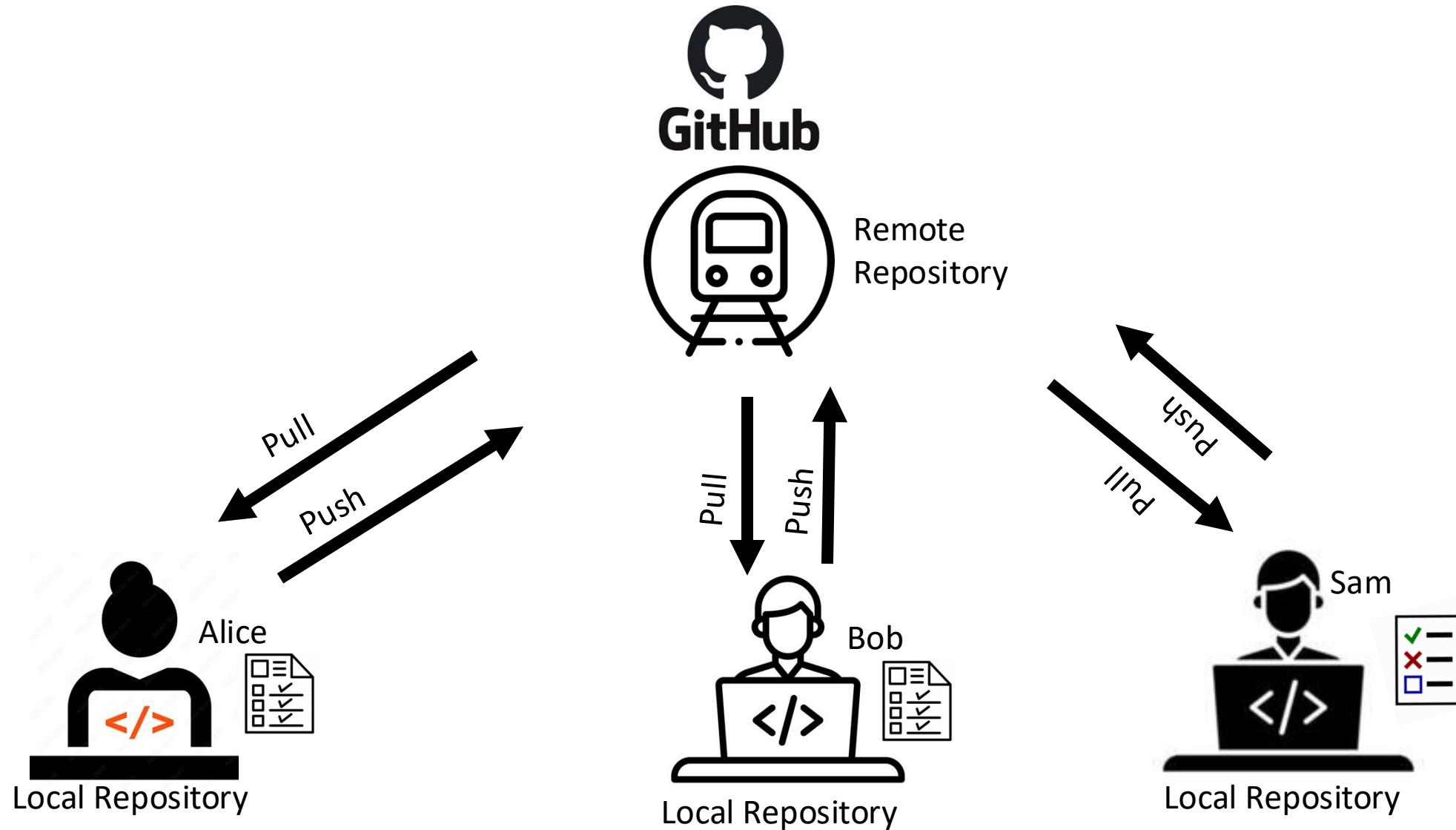
472-2023

This repo contains all the contents for the class CS 472/672 - Software Product Design and Development I

# More Resources - Interacting with GitHub

Command	Explanation & Link
git clone URL	<a href="#">Git clone is used to clone a remote repository into a local workspace</a>
git push	<a href="#">Git push is used to push commits from your local repo to a remote repo</a>
git pull	<a href="#">Git pull is used to fetch the newest updates from a remote repository</a>

# Working with Remote and Fetching Changes



# Working with Remote and Fetching Changes

Command	Explanation & Links
git remote	<a href="#">Lists remote repos</a>
git remote -v	<a href="#">List remote repos verbosely</a>
git remote show <name>	<a href="#">Describes a single remote repo</a>
git remote update	<a href="#">Fetches the most up-to-date objects</a>
git fetch	<a href="#">Downloads specific objects</a>
git branch -r	<a href="#">Lists remote branches</a> ; can be combined with other branch arguments to manage remote branches

# Conflict Resolution with Remotes

- <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/about-merge-conflicts>
- <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/resolving-a-merge-conflict-using-the-command-line>
- The git rebase command is a lot more powerful. Check out [this link](#) for more information.

# Collaboration on GitHub - Pull request – Fork Workflow

This screenshot shows the GitHub repository `blueprince1/checks`. The repository is public and contains one branch and no tags. The main file listed is `rearrange.py`. The commit history shows two commits by `johnxu21`: an initial commit and a second commit. A red arrow points from this repository to the forked repository below.

`blueprince1/checks` Public

Code Issues Pull requests Actions Projects Security Insights

main 1 branch 0 tags Go to file Add file <> Code

johnxu21 Python file for rearranging names aafa3a5 16 minutes ago 2 commits  
.idea Python file for rearranging names 16 minutes ago  
README.md Initial commit 1 hour ago  
rearrange.py Python file for rearranging names 16 minutes ago

README.md

checks

This screenshot shows the forked GitHub repository `johnxu21/checks`, which was forked from `blueprince1/checks`. The repository has one branch and no tags. It displays a message stating that the branch is up to date with the original repository. The commit history is identical to the original repository, showing the same two commits by `johnxu21`.

`johnxu21/checks` Public

forked from `blueprince1/checks`

Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file <> Code

This branch is up to date with `blueprince1/checks:main`. Contribute Sync fork

johnxu21 Python file for rearranging names aafa3a5 22 minutes ago 2 commits  
.idea Python file for rearranging names 22 minutes ago  
README.md Initial commit 1 hour ago  
rearrange.py Python file for rearranging names 22 minutes ago

README.md

checks

# Collaboration on GitHub - Pull request – Fork Workflow

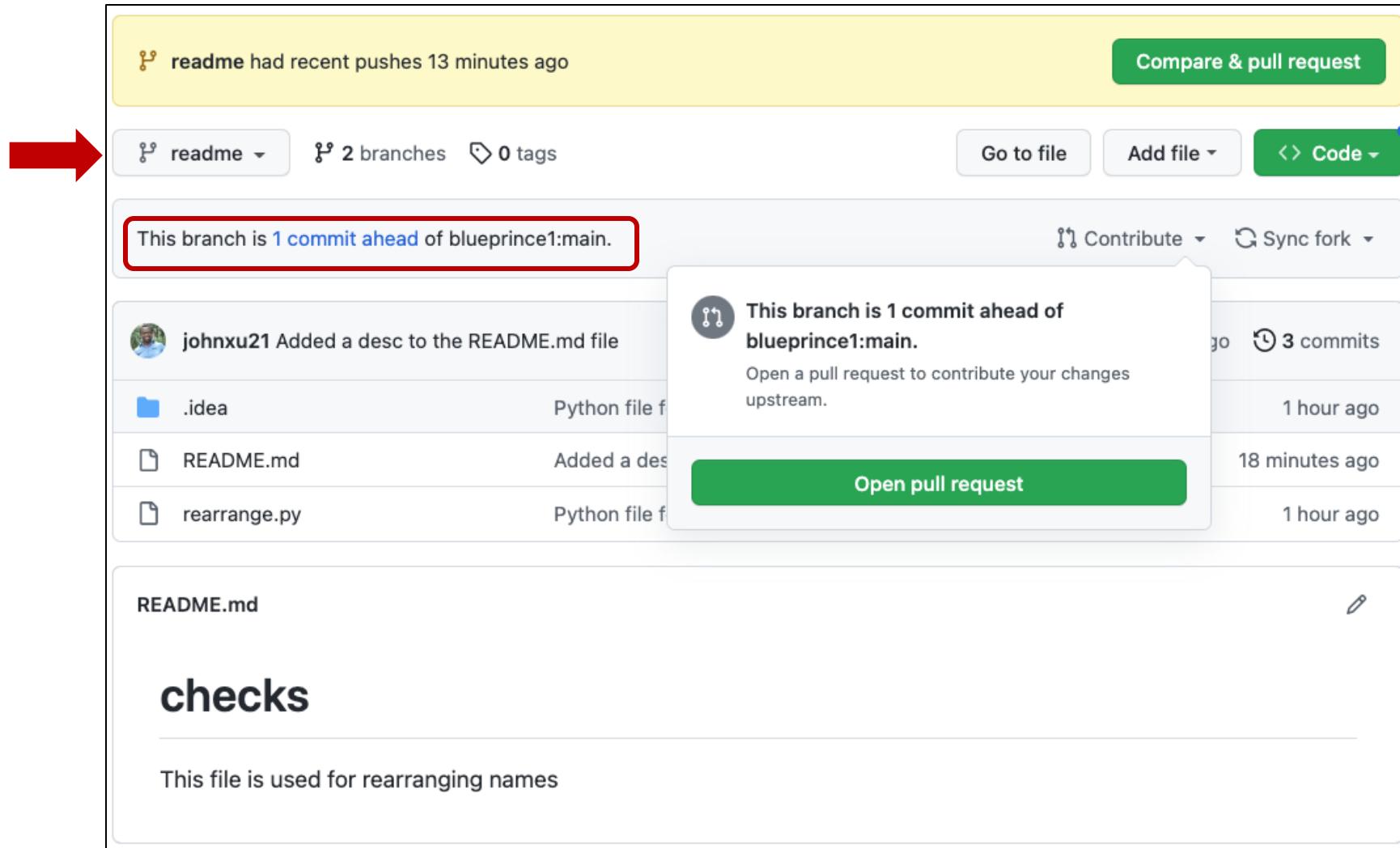
```
businge@Johns-MacBook-Pro-2 472-2023 % git clone https://github.com/johnxu21/checks.git
Cloning into 'checks'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 15 (delta 0), reused 12 (delta 0), pack-reused 0
Unpacking objects: 100% (15/15), done.
```

```
businge@Johns-MacBook-Pro-2 checks % git checkout -b readme
Switched to a new branch 'readme'
businge@Johns-MacBook-Pro-2 checks % atom README.md
businge@Johns-MacBook-Pro-2 checks % git add README.md
businge@Johns-MacBook-Pro-2 checks % git commit -m 'Added a desc to the README.md file'
[readme d7373be] Added a desc to the README.md file
 1 file changed, 3 insertions(+), 1 deletion(-)
businge@Johns-MacBook-Pro-2 checks % git push -u origin readme
info: please complete authentication in your browser...
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 374 bytes | 374.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'readme' on GitHub by visiting:
remote:   https://github.com/johnxu21/checks/pull/new/readme
remote:
To https://github.com/johnxu21/checks.git
 * [new branch]      readme -> readme
Branch 'readme' set up to track remote branch 'readme' from 'origin'.
```

Create local branch

Create remote  
branch -> push

# Collaboration on GitHub - Pull request – Fork Workflow



- A pull request is a commit or series of commits that you send to the owner of the repository so that they incorporate it into their tree.

# Collaboration on GitHub - Pull request – Fork Workflow

**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: blueprince1/checks base: main head repository: johnxu21/checks compare: readme

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

Added a desc to the README.md file

Write Preview

Leave a comment

Added a description to the README.md that was missing in the project

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

Allow edits by maintainers [?](#)

Create pull request

4 README.md

... ... @@ -1 +1,3 @@

1 - # checks

1 + # checks

2 +

3 + This file is used for rearranging names

Added a desc to the README.md file #1

[Open](#) johnxu21 wants to merge 1 commit into [blueprince1:main](#) from [johnxu21:readme](#)

Concatenate query strings of queries/search types prop  
#14284

Merged denniselkers merged 5 commits into [master](#) from [fix/issue-14268](#) 3 weeks ago

Conversation 2 Commits 5 Checks 1 Files changed 6

denniselkers commented on Dec 21, 2022 · edited

Note: This needs to be backported to 4.3 and 5.0.

Description

Motivation and Context

This PR is fixing an issue related to exporting a search type. When both the search type and the query con they are being concatenated, by simply combining them with an AND . For simple query strings this works, the logic for more complicated ones (e.g. when query string1 is foo OR bar and the second is also foo OR resulting query string foo OR bar AND foo has a different meaning, due to the stronger binding of the

With this PR, concatenating two query strings wraps them in braces too, so foo OR bar concatenated to (foo OR bar) AND (foo OR bar) , which returns the same, correct results.

Fixes #14268.

/jenkins-pr-deps Graylog2/graylog-plugin-enterprise#4502

How Has This Been Tested?

Screenshots (if appropriate):

Types of changes

- Bug fix (non-breaking change which fixes an issue)
- New feature (non-breaking change which adds functionality)
- Refactoring (non-breaking change)
- Breaking change (fix or feature that would cause existing functionality to change)

# Updating an Existing Pull Request

Added a desc to the README.md file #1

[Open](#) johnxu21 wants to merge 1 commit into `blueprince1:main` from `johnxu21:readme`

Conversation 0 Commits 1 Checks 0 Files changed 1

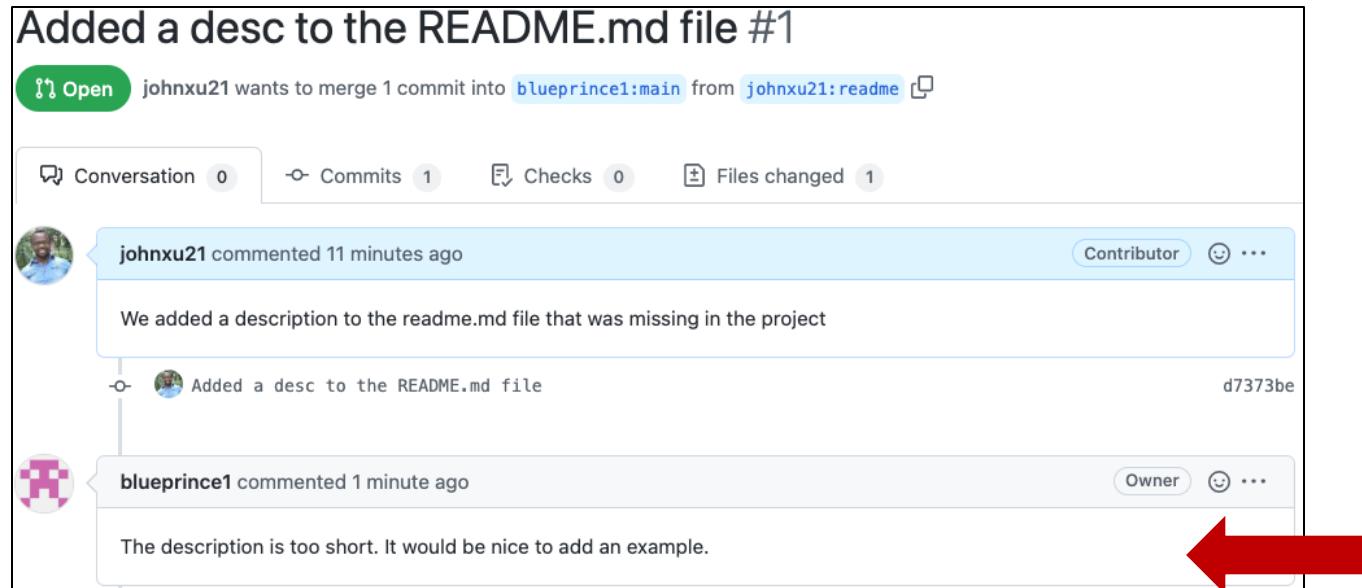
johnxu21 commented 11 minutes ago

We added a description to the readme.md file that was missing in the project

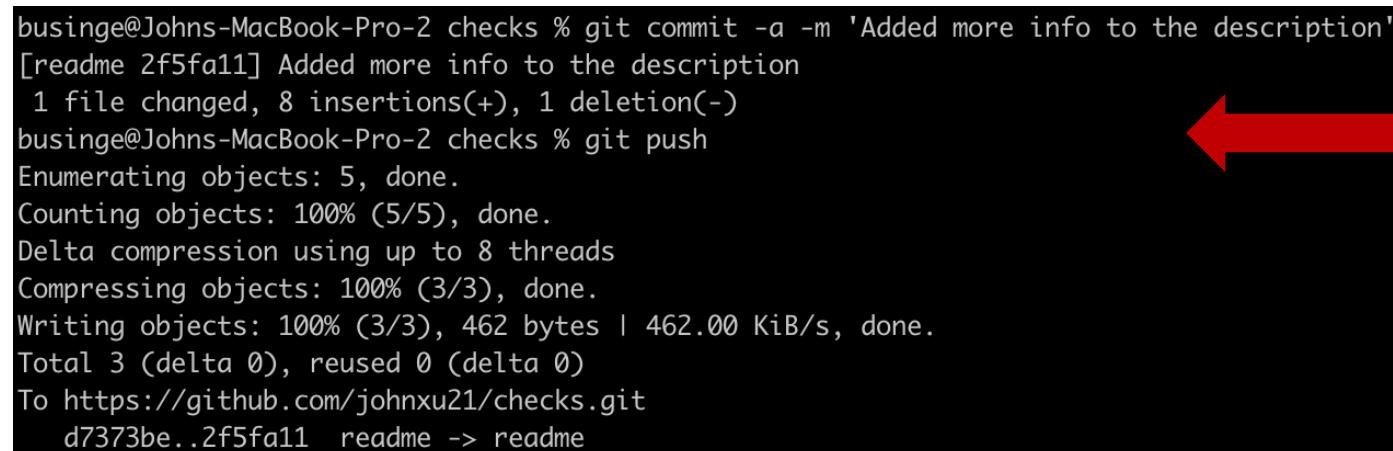
-o Added a desc to the README.md file d7373be

blueprince1 commented 1 minute ago

The description is too short. It would be nice to add an example.



```
businge@Johns-MacBook-Pro-2 checks % git commit -a -m 'Added more info to the description'
[readme 2f5fa11] Added more info to the description
 1 file changed, 8 insertions(+), 1 deletion(-)
businge@Johns-MacBook-Pro-2 checks % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 462 bytes | 462.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/johnxu21/checks.git
    d7373be..2f5fa11  readme -> readme
```



# Updating an Existing Pull Request

Added a desc to the README.md file #1

The screenshot shows a GitHub pull request titled "Added a desc to the README.md file #1". The pull request details indicate that johnxu21 wants to merge 2 commits from their branch into the blueprince1:main branch. The commit history shows two commits:

- johnxu21 commented 41 minutes ago: "We added a description to the readme.md file that was missing in the project".
- blueprince1 commented 30 minutes ago: "The description is too short. It would be nice to add an example."
- johnxu21 added more info to the description.

Below the commit history is a detailed view of the README.md file's diff, showing changes made in commit d7373be. The diff highlights additions (green) and deletions (red). The code changes are as follows:

```
diff --git a/README.md b/README.md
index 11...d7373be 100644
--- a/README.md
+++ b/README.md
@@ -1 +1,10 @@
- # checks
+ # checks
+
+ This file is used sort a list of names by their surnames.
+
+ # Example
+
+ Passing sortSur(nameList = ['John Wick', 'Jason Voorhees'])
+
+ will return: nameList = ['Jason Voorhees', 'John Wick']
```

Some projects may ask you to have only one commit in your pull requests

# Squashing Changes

```
% git rebase -i master
```

```
pick d7373be Added a desc to the README.md file
pick 2f5fa11 Added more info to the description

# Rebase aafa3a5..2f5fa11 onto aafa3a5 (2 commands)
#
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup <commit> = like "squash", but discard this commit's log message
# x, exec <command> = run command (the rest of the line) using shell
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# l, label <label> = label current HEAD with a name
# t, reset <label> = reset HEAD to a label
# m, merge [-C <commit>] <commit> [<label>] [# <oneline>]
# .      create a merge commit using the original merge commit's
# .      message (or the oneline, if no original merge commit was
# .      specified). Use -c <commit> to reword the commit message.
```

```
pick d7373be Added a desc to the README.md file
squash 2f5fa11 Added more info to the description
```

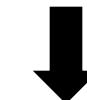
```
# This is a combination of 2 commits.
# This is the 1st commit message:
Added a desc to the README.md file

# This is the commit message #2:
Added more info to the description

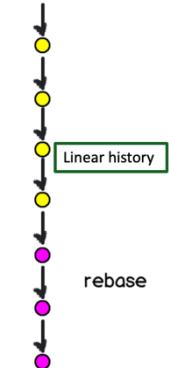
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
```

```
# This is a combination of 2 commits.
# This is the 1st commit message:
Added a desc to the README.md file, including an example use case

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
```



```
businge@Johns-MacBook-Pro-2 checks % git rebase -i main
[detached HEAD 78bc0e1] Added a desc to the README.md file including an example use case
Date: Tue Dec 6 13:16:42 2022 -0800
1 file changed, 10 insertions(+), 1 deletion(-)
Successfully rebased and updated refs/heads/readme.
```



WAIVED pull request

# Squashing Changes

```
businge@Johns-MacBook-Pro-2 checks % git show  
commit 78bc0e16b559e38220debc9e2c3da70f980ebdf (HEAD -> readme)  
Author: johnxu21 <johnxu21@gmail.com>  
Date:   Tue Dec 6 13:16:42 2022 -0800
```

Added a desc to the README.md file including an example use case

```
diff --git a/README.md b/README.md  
index 4f4688e..9b2b7bc 100644  
--- a/README.md  
+++ b/README.md  
@@ -1 +1,10 @@  
-# checks  
\\ No newline at end of file  
+# checks  
+  
+This file is used sort a list of names by their surnames.  
+  
+# Example  
+  
+Passing sortSur(nameList = ['John Wick', 'Jason Voorhees'])  
+  
+will return: nameList = ['Jason Voorhees', 'John Wick']
```

```
businge@Johns-MacBook-Pro-2 checks % git status  
On branch readme  
Your branch and 'origin/readme' have diverged,  
and have 1 and 2 different commits each, respectively.  
(use "git pull" to merge the remote branch into yours)
```

nothing to commit, working tree clean

```
businge@Johns-MacBook-Pro-2 checks % git log --graph --oneline -4  
* 78bc0e1 (HEAD -> readme) Added a desc to the README.md file including an example use case  
* aafa3a5 (origin/main, origin/HEAD, main) Python file for rearranging names  
* e8130f1 Initial commit  
businge@Johns-MacBook-Pro-2 checks % git push
```

```
businge@Johns-MacBook-Pro-2 checks % git push  
To https://github.com/johnxu21/checks.git  
! [rejected]      readme -> readme (non-fast-forward)  
error: failed to push some refs to 'https://github.com/johnxu21/checks.git'  
hint: Updates were rejected because the tip of your current branch is behind  
hint: its remote counterpart. Integrate the remote changes (e.g.  
hint: 'git pull ...') before pushing again.  
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

# Squashing Changes

```
businge@Johns-MacBook-Pro-2 checks % git push -f
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 493 bytes | 493.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/johnxu21/checks.git
 + 2f5fa11...78bc0e1 readme -> readme (forced update)
businge@Johns-MacBook-Pro-2 checks % git log --graph --oneline -4
* 78bc0e1 (HEAD -> readme, origin/readme) Added a desc to the README.md file including an example use case
* aafa3a5 (origin/main, origin/HEAD, main) Python file for rearranging names
* e8130f1 Initial commit
```

Added a desc to the README.md file #1

The screenshot shows a GitHub pull request interface. At the top, it says "johnxu21 wants to merge 1 commit into blueprince1:main from johnxu21:readme". Below this, there are tabs for "Conversation" (1), "Commits" (1), "Checks" (0), and "Files changed" (1). The "Files changed" tab is highlighted with a red border. The main area shows a diff for the file "README.md". The diff highlights changes in lines 1 through 10. Lines 1 through 6 are circled with a red box. Line 1 contains the addition of "# checks". Line 3 contains the addition of a descriptive comment: "+ This file is used sort a list of names by their surnames.". Line 6 contains the addition of "# Example". Lines 8 through 10 contain the addition of Python code for sorting names.

```
diff --git a/README.md b/README.md
index 11...11 100644
--- a/README.md
+++ b/README.md
@@ -1,10 @@
1 - # checks
1 + # checks
2 +
3 + This file is used sort a list of names by their surnames.
4 +
5 +
6 + # Example
7 +
8 + Passing sortSur(nameList = ['John Wick', 'Jason Voorhees'])
9 +
10 + will return: nameList = ['Jason Voorhees', 'John Wick']
```

<https://help.github.com/en/articles/about-pull-request-merges>

# Best Practices for Collaboration

- It's a good idea to always synchronize your branches before starting any work on your own.
- Avoid having very large changes that modify a lot of different things.
- When working on a big change, it makes sense to have a separate feature branch.
  - To make the final merge of the feature branch easier, it makes sense to regularly merge changes made on the master branch back onto the feature branch.
- Avoid rebasing on public repository

- <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/about-merge-conflicts>
- <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/resolving-a-merge-conflict-using-the-command-line>

# Code Reviews

**Code review** (sometimes referred to as peer review) is a software quality assurance activity in which **one or several people** check a program mainly by viewing and reading parts of its source code, and they do so after implementation or as an interruption of implementation.

- At least one of the persons must not be the code's author.
- The persons performing the checking, excluding the **author**, are called "**reviewers**".

- Documentation
- Configurations
- Code
- Design Diagrams

# Why do we need to perform code reviews?



## Education

Mentoring, learning, knowledge dissemination.



## Gatekeeping

Prevent arbitrary code to be committed, security



## Readable Code

Maintaining norms, consistent style and design, and having adequate tests



## Accident prevention

Find bugs and defects, ensure high quality code



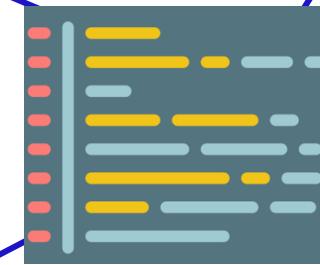
## Tracing & tracking

Understanding evolution and why and how code changed

One thing to always remember, code reviews are not about us being good or bad coders, they're about making our code better.

Unclear names

Forgetting to add tests



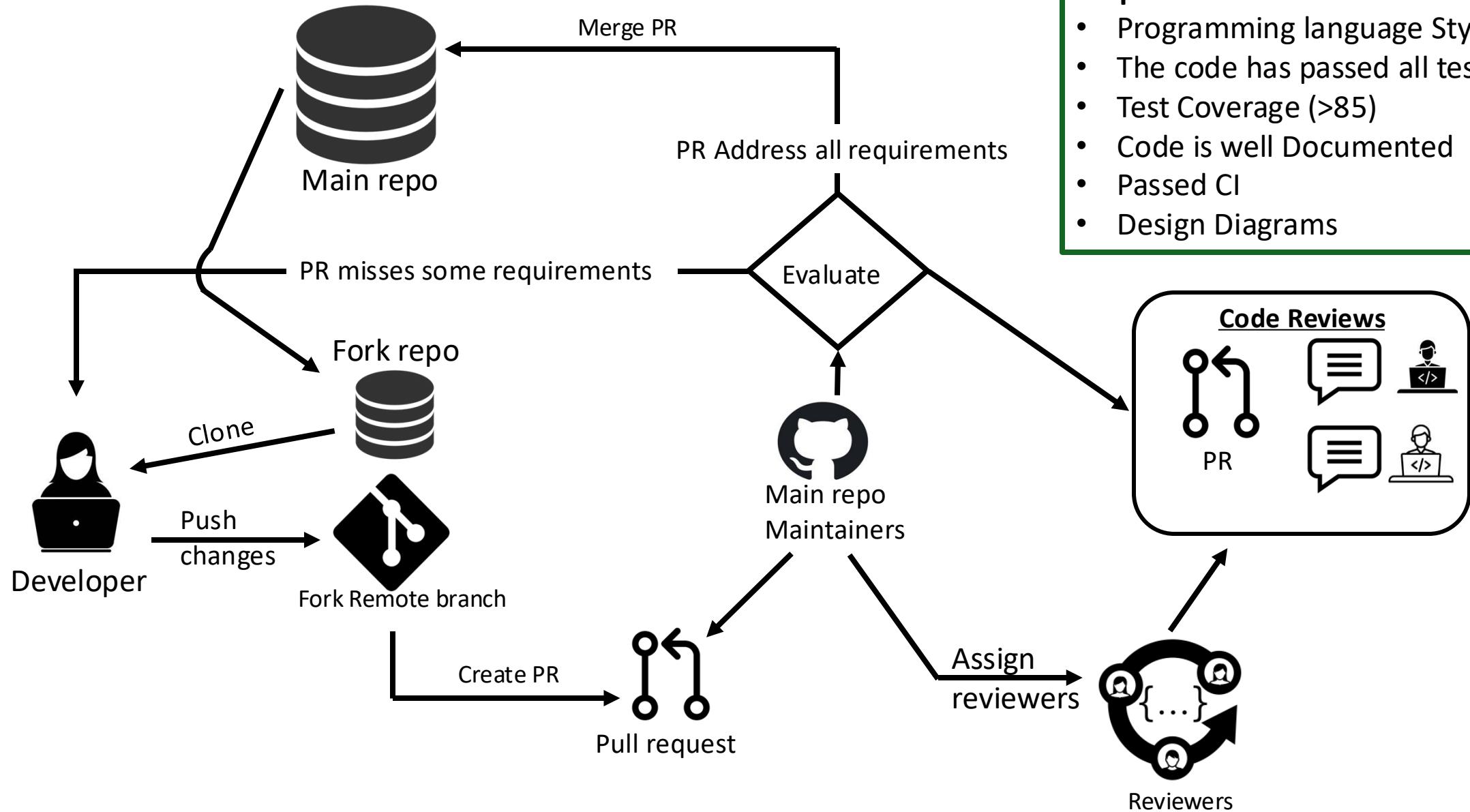
Code issues

Forgetting to handle a specific condition

## Requirements

- Programming language Style Guide
- The code has passed all tests
- Test Coverage (>90)
- Code is well Documented
- Passed CI
- Design Diagrams

# A simple Code Review Workflow



# A simple Code Review Workflow

Before Jim-mister adds his colleagues as reviewers to his PR, he needs to **write a detailed Pull Request description** that addresses the following:

- **What has changed** between his feature branch and the dev branch
- Checklist of **prerequisites** (e.g. added documentation, added tests, ready to merge, etc.)
- **How to use the feature** (a GIF of the feature in action is extremely useful here)
- **How the design has changed** and how it compares to the design mockups (screenshots comparing the designs to the implementation)
- **Additional notes** the reviewers should be made aware of

*What goes into a pull request is usually highly project-dependant. Often times, you will see projects that have lots of pull requests make use of pull request templates to pre-populate a lot of the required information for the PR description.*

Once Jimmy is done submitting his detailed pull request, he waits...but not **too long!**

*A good review process requires that pull requests get addressed as soon as possible in order to prevent the project from being impeded. Ideally, pull requests are reviewed within two hours of their submission.*

# Code Reviews on GitHub

## Added a desc to the README.md file #1

Open johnxu21 wants to merge 1 commit into blueprince1:main from johnxu21:readme

Conversation 3 Commits 1 Checks 0 Files changed 1

Changes from all commits ▾ File filter ▾ Conversations ▾ Jump to ▾

11 README.md

```
@@ -1 +1,10 @@
1 - # checks
1 + # checks
2 +
3 + This file is used sort a list of names by their surnames.
4 +
5 +
6 + # Example
```

blueprince1 1 hour ago Please make this ## so that its a smaller title

Reply... Resolve conversation

```
7 +
8 + Passing sortSur(nameList = ['John Wick', 'Jason Voorhees'])
9 +
10 + will return: nameList = ['Jason Voorhees', 'John Wick']
```

blueprince1 1 hour ago This is cool, but please add a couple of more examples

businge@Johns-MacBook-Pro-2 checks % atom README.md  
businge@Johns-MacBook-Pro-2 checks % git status  
On branch readme  
Your branch is up to date with 'origin/readme'.

Changes not staged for commit:  
(use "git add <file>..." to update what will be committed)  
(use "git restore <file>..." to discard changes in working directory)  
modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")  
businge@Johns-MacBook-Pro-2 checks % git commit -a --amend  
[readme 1abdaa6] Added a desc to the README.md file including an example use case  
Date: Tue Dec 6 13:16:42 2022 -0800  
1 file changed, 10 insertions(+), 1 deletion(-)  
businge@Johns-MacBook-Pro-2 checks % git status  
On branch readme  
Your branch and 'origin/readme' have diverged,  
and have 1 and 1 different commits each, respectively.  
(use "git pull" to merge the remote branch into yours)

nothing to commit, working tree clean  
businge@Johns-MacBook-Pro-2 checks % git push -f  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 8 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 512 bytes | 512.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0)  
To https://github.com/johnxu21/checks.git  
+ 78bc0e1...1abdaa6 readme -> readme (forced update)

businge@Johns-MacBook-Pro-2 checks % git status  
On branch readme  
Your branch is up to date with 'origin/readme'.

nothing to commit, working tree clean

# Code Reviews on GitHub

blueprince1 reviewed 1 hour ago

[View changes](#)

README.md **Outdated**

```
4 +  
5 +  
6 + # Example
```

blueprince1 1 hour ago

Please make this ## so that its a smaller title

Reply...The comment has been resolved. Please take another look.

[Resolve conversation](#)

Conversation 3 Commits 1 Checks 0 Files changed 1

Changes from all commits ▾ File filter ▾ Conversations ▾ Jump to ▾

11 README.md

```
@@ -1 +1,10 @@
1 - # checks
2 +
3 + This file is used sort a list of names by their surnames.
4 +
5 +
6 + ## Example
7 +
8 + * Passing sortSur(nameList = ['John Wick', 'Jason Voorhees']) will return: nameList = ['Jason Voorhees', 'John Wick']
9 + * Passing sortSur(nameList = ['John Wick']) will return nameList = [John Wick]
10 + * Passing sortSur(nameList = []) will return nameList = []
```

blueprince1 reviewed 1 hour ago

[View changes](#)

README.md **Outdated**

```
8 + Passing sortSur(nameList = ['John Wick', 'Jason Voorhees'])  
9 +  
10 + will return: nameList = ['Jason Voorhees', 'John Wick']
```

blueprince1 1 hour ago

This is cool, but please add a couple of more examples

Reply... The comment has been resolved. Please take another look.

[Resolve conversation](#)

# Code Reviews on GitHub

Concatenate query strings of queries/search types properly when exporting.

#14284

Merged denniselkers merged 5 commits into master from fix/issue-14268 3 weeks ago

Conversation 2    Commits 5    Checks 1    Files changed 6

dennisoelkers commented on Dec 21, 2022 · edited · Member

Note: This needs to be backported to 4.3 and 5.0.

### Description

#### Motivation and Context

This PR is fixing an issue related to exporting a search type. When both the search type and the query contain query strings, they are being concatenated, by simply combining them with an AND. For simple query strings this works, but it changes the logic for more complicated ones (e.g. when query string1 is foo OR bar and the second is also foo OR bar, the resulting query string foo OR bar AND foo bar has a different meaning, due to the stronger binding of the logical AND).

With this PR, concatenating two query strings wraps them in braces too, so foo OR bar concatenated to itself ends up as (foo OR bar) AND (foo or BAR), which returns the same, correct results.

Fixes #14268.  
jenkins-pr-deps Graylog2/graylog-plugin-enterprise#4502

### How Has This Been Tested?

### Screenshots (if appropriate):

### Types of changes

- Bug fix (non-breaking change which fixes an issue)
- New feature (non-breaking change which adds functionality)
- Refactoring (non-breaking change)
- Breaking change (fix or feature that would cause existing functionality to change)

### Checklist:

- My code follows the code style of this project.
- My change requires a change to the documentation.
- I have updated the documentation accordingly.
- I have read the CONTRIBUTING document.
- I have added tests to cover my changes.

Markdown Language

danotorrey approved these changes on Dec 21, 2022

danotorrey left a comment

LGTM and tests successfully with instance of problematic dashboard. Exports are now successful.

@dennisoelkers Looks like there are some test failures in AggregationEventProcessorTest. Perhaps those tests need to be updated with the new grouping logic.

danotorrey 1

ryan-carroll-graylog approved these changes on Dec 21, 2022

ryan-carroll-gra... left a comment

Looks good and tests successfully with Dashboard that was previously causing export issues.

# Merging PRs – Branch Protection Rules

Added a desc to the README.md file #1  
johnxu21 wants to merge 1 commit into [blueprince1:main](#) from [johnxu21:readme](#)

Open

blueprince1 7 hours ago  
This is cool, but please add a couple of more examples

Reply...

Resolve conversation

Add more commits by pushing to the **readme** branch on [johnxu21/checks](#).

Require approval from specific reviewers before merging  
Branch protection rules ensure specific people approve pull requests before they're merged.

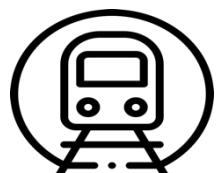
Add rule

Continuous integration has not been set up  
GitHub Actions and [several other apps](#) can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch  
Merging can be performed automatically.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



Project



Protect your most important branches  
Branch protection rules define whether collaborators can delete or force push to the branch and set requirements for any pushes to the branch, such as passing status checks or a linear commit history.  
Your GitHub Free plan can only enforce rules on its public repositories, like this one.

Branch name pattern \*

main

Protect matching branches

**Require a pull request before merging**  
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.

**Require approvals**  
When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.  
Required number of approvals before merging: 1  
 1  
 2  
 3  
1 commit are pushed  
which will dismiss pull request review approvals.  
files with a designated code owner.

**Require conversation resolution before merging**  
When enabled, all conversations on code must be resolved before a pull request can be merged into a branch that matches this rule. [Learn more](#).

**Require signed commits**  
Commits pushed to matching branches must have verified signatures.

**Require linear history**  
Prevent merge commits from being pushed to matching branches.

# Integrating PRs

**Open** Added a desc to the README.md file #1  
johnxu21 wants to merge 1 commit into `blueprince1:main` from `johnxu21:readme` ⚙

Add more commits by pushing to the `readme` branch on `johnxu21/checks`.

 **Require approval from specific reviewers before merging**  
Branch protection rules ensure specific people approve pull requests before they're merged. [Add rule](#) [X](#)

 **Continuous integration has not been set up**  
GitHub Actions and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**  
Merging can be performed automatically.

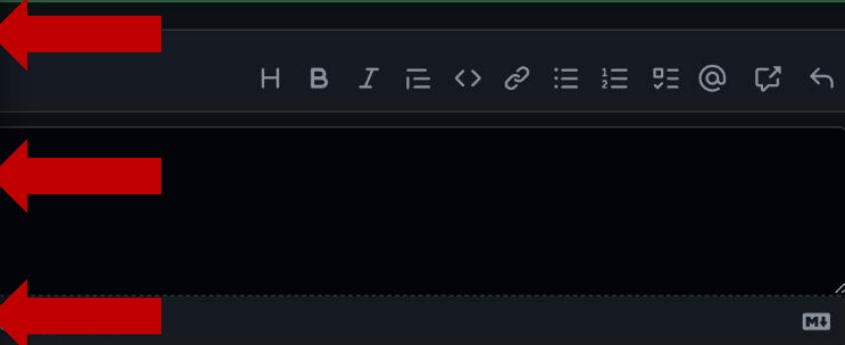
**Merge pull request** [▼](#) You can also [open this in GitHub Desktop](#) or view command line instructions.

 **Create a merge commit**  
All commits from this branch will be added to the base branch via a merge commit.

**Squash and merge**  
The 1 commit from this branch will be added to the base branch.

**Rebase and merge**  
The 1 commit from this branch will be rebased and added to the base branch.

[Close pull request](#) [Comment](#)



Project

# More Information on Code Reviews

Check out the following links for more information:

- <http://google.github.io/styleguide/>
- <https://help.github.com/en/articles/about-pull-request-reviews>
- <https://medium.com/osedealabs/the-perfect-code-review-process-845e6ba5c31>
- <https://smartbear.com/learn/code-review/what-is-code-review/>

# Managing Team Projects

Good planning and communication key managing team projects

- Documenting what you do and why you do it becomes even more important; otherwise, you'll spend most of your time answering everybody else questions.
  - The basic form of this is writing clear code with good comments and documentation for those functions.
- If you are a project maintainer, you must promptly reply to pull requests and not let them stagnate.
- When coordinating who does what and when a common strategy for active software projects is to use an issue tracker.

# Issue Template

name	about	title	labels	assignees
Feature request	Suggest an idea for Botonic		enhancement	

**Is your feature request related to a problem? Please describe.** A clear and concise description of what the problem is. Ex. I'm always frustrated when [...]

**Describe the solution you'd like** A clear and concise description of what you want to happen.

**Describe alternatives you've considered** A clear and concise description of any alternative solutions or features you've considered.

**Additional context** Add any other context or screenshots about the feature request here.

Feature request

name	about	title	labels	assignees
Bug report	Create a report to help Botonic improve		bug	

**Describe the bug** A clear and concise description of what the bug is.

**To Reproduce** Steps to reproduce the behaviour:

1. Go to '...'
2. Click on '....'
3. Scroll down to '....'
4. See error
5. Intuition about the error / Proposed solution (optional)

**What is the expected behaviour?** A clear and concise description of what you expected to happen.

**Screenshots** If applicable, add screenshots to help explain your problem.

**About the environment** Which versions of [botonic packages](#), and which browser/OS or environment (development/production) are affected by this issue? Did this work in previous versions of [botonic packages](#)?

**Additional context** Add any other context about the problem here.

Bug report

# Issue Triage

- Issue triaging is the process by which maintainers of a project takes to review and organize new GitHub issues and pull requests.
- It involves categorizing issues and pull requests based on factors such as priority/urgency, ownership of the issue, and the issue/pull request label (bug, feature, enhancement, etc.).

## Read about Issue Triaging

- <https://github.com/microsoft/vscode/wiki/Issues-Triaging>
- <https://learn.wordpress.org/tutorial/how-to-do-triage-on-github/>

# Issue Tracker - GitHub

This screenshot shows the GitHub interface for the Microsoft/TypeScript repository. The top navigation bar includes links for Explore, Gist, Blog, Help, and the user holman. The main header displays the repository name "Microsoft / TypeScript" along with metrics: 142 Watchers, 1,564 Stars, and 82 Forks. Below the header, there are tabs for Issues (selected), Pull requests, Labels, and Milestones. A search bar with the query "is:open is:issue" and a "New issue" button are also present.

The main content area lists several open issues:

- Request to expose `zeroType`, `emptyStringType` and `isTypeAssignableTo` on the TS TypeChecker ([API](#))  
In Discussion Suggestion  
#50694 opened on Sep 8 by sstchur 5 tasks done
- Compiler incorrectly caches module resolution if we use a custom `ts.SourceFile` & `ts.Program` cache ([API](#))  
In Discussion Suggestion  
#50288 opened on Aug 12 by frigus02
- Enable strictFunctionTypes × API Author: Team Breaking Change For Uncommitted Bug  
#49929 opened on Jul 16 by jakebailey Changes requested 1 task TypeScript 5.0.0
- {@link https...} inside a @remarks causes error TS2304: Cannot find name 'https' ([API](#) Bug Effort: Moderate)  
Help Wanted  
#49109 opened on May 14 by aSemy Backlog
- Create new interfaces to provide asynchronous versions for the user customizable functions in `SolutionBuilder` and `SolutionBuilderWithWatchHost` ([API](#) Suggestion)  
#48894 opened on Apr 30 by craighicks

## Issues

- Feature requests
- Bugs to fix
- New tests to add

# Tracking Issues - GitHub

Issue

Question marks (JSDoc types) allowable in instantiation expression type arguments #51802

Closed jcalsz opened this issue 11 hours ago · 9 comments · Fixed by #51804

Bug Report

Search Terms

instantiation expressions, question mark, jsdoc nullable, any, Java wildcard

Version & Regression Information

- This is the behavior in every version since [Instantiation expressions](#) #47607 introduced instantiation expressions (TypeScript 4.7 and up)

Playground Link

Playground link with relevant code

Code

```
function foo<T>(x: T): T { return x }
const WhatFoo = foo<x?> // (x: any) => any 😊
const HuhFoo = foo<string?> // (x: string | null) => string | null 😊
const NopeFoo = foo<?string> // (x: string | null) => string | null 😊
const ComeOnFoo = foo<?string?> // (x: string | null) => string | null 😊?
```

Actual behavior

No compiler errors. The question marks seem to be treated like JSDoc nullable types and a question mark by itself seems to be interpreted as `any` (not sure if that's true for JSDoc either).

Expected behavior

Compiler errors on every question mark, saying that it's not valid, perhaps with a "JSDoc types are not allowed here" message.

This Stack Overflow question is asking about how to use the Java wildcard syntax in TypeScript, and I'm like 😊. Apparently this was suggested by VSCode type hints. I don't know much about JSDoc but I assume some support for it has accidentally leaked into instantiation expression checking.

2

More Description later – As comments

Title

Assignees

ahejlsberg

Labels

Bug

Fix Available

Projects

None yet

Milestone

TypeScript 5.0.0

Development

Successfully merging a pull request may close this issue.

[Visit child nodes in checkExpressionWithTypeArguments](#)

microsoft/TypeScript

Notifications

Customize

Subscribe

Pull Request

Visit child nodes in checkExpressionWithTypeArguments #51804

Merged ahejlsberg merged 3 commits into main from fix51802 8 hours ago

Conversation 0 Commits 3 Checks 17 Files changed 9

ahejlsberg commented 9 hours ago

Fixes #51802.

Member

ahejlsberg added 3 commits 9 hours ago

Visit child nodes in checkExpressionWithTypeArguments

Accept new baselines

Add tests

typescript-bot assigned ahejlsberg 9 hours ago

typescript-bot added Author: Team For Milestone Bug labels 9 hours ago

Linking a pull request to an issue using a keyword

You can link a pull request to an issue by using a supported keyword in the pull request's description or in a commit message. The pull request must be on the default branch.

- close
- closes
- closed
- fix
- fixes
- fixed
- resolve
- resolves
- resolved

Keyword #Issue\_No

In the project, it is required that you link the Issues to the Pull requests

# Managing Projects Additional Tools

Check out the following links for more information:

- <https://arp242.net/diy.html>
- <https://help.github.com/en/articles/closing-issues-using-keywords>
- <https://help.github.com/en/articles/setting-guidelines-for-repository-contributors>
- <https://www.infoworld.com/article/3271126/what-is-cicd-continuous-integration-and-continuous-delivery-explained.html>
- <https://stackify.com/what-is-cicd-whats-important-and-how-to-get-it-right/>
- <https://docs.github.com/en/actions/quickstart>

# Project – Pull requests and reviews requirements

Concatenate query strings of queries/search types properly when exporting.

#14284

Merged denniselkers merged 5 commits into master from fix/issue-14268 3 weeks ago

Conversation 2 Commits 5 Checks 1 Files changed 6

dennisoekers commented on Dec 21, 2022 - edited Member ...

Note: This needs to be backported to 4.3 and 5.8.

Description

Motivation and Context

This PR is fixing an issue related to exporting a search type. When both the search type and the query contain query strings, they are being concatenated, by simply combining them with an AND. For simple query strings this works, but it changes the logic for more complicated ones (e.g. when query string1 is foo OR bar and the second is also foo OR bar, the resulting query string foo OR bar AND foo bar has a different meaning, due to the stronger binding of the logical AND).

With this PR, concatenating two query strings wraps them in braces too, so {foo OR bar} concatenated to itself ends up as {foo OR bar} AND {foo OR bar}, which returns the same, correct results.

Fixes #14268.

Jenkins-pr-deps Graylog2/gralog-plugin-enterprise#4502

How Has This Been Tested?

Screenshots (if appropriate):

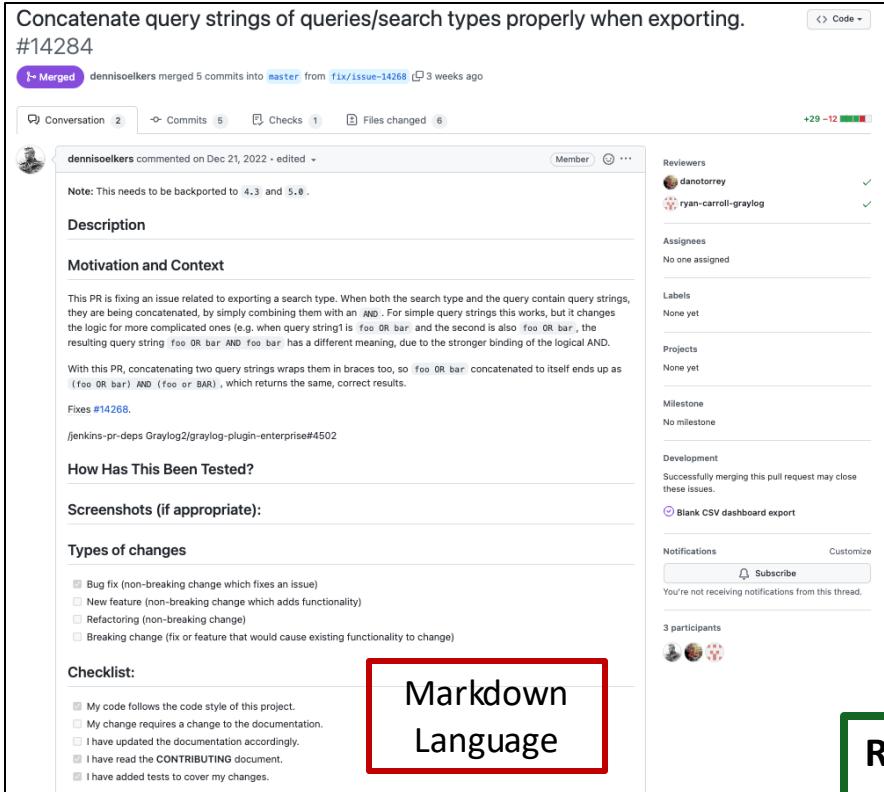
Types of changes

Bug fix (non-breaking change which fixes an issue)  
New feature (non-breaking change which adds functionality)  
Refactoring (non-breaking change)  
Breaking change (fix or feature that would cause existing functionality to change)

Checklist:

My code follows the code style of this project.  
My change requires a change to the documentation.  
I have updated the documentation accordingly.  
I have read the CONTRIBUTING document.  
I have added tests to cover my changes.

**Markdown Language**



## Requirements

- Programming language Style Guide
- The code has passed all tests
- Test Coverage (>90)
- Code is well Documented
- Passed CI
- Design Diagrams
- PR and issues are linked

Before Jim-mister adds his colleagues as reviewers to his PR, he needs to write a detailed Pull Request description that addresses the following:

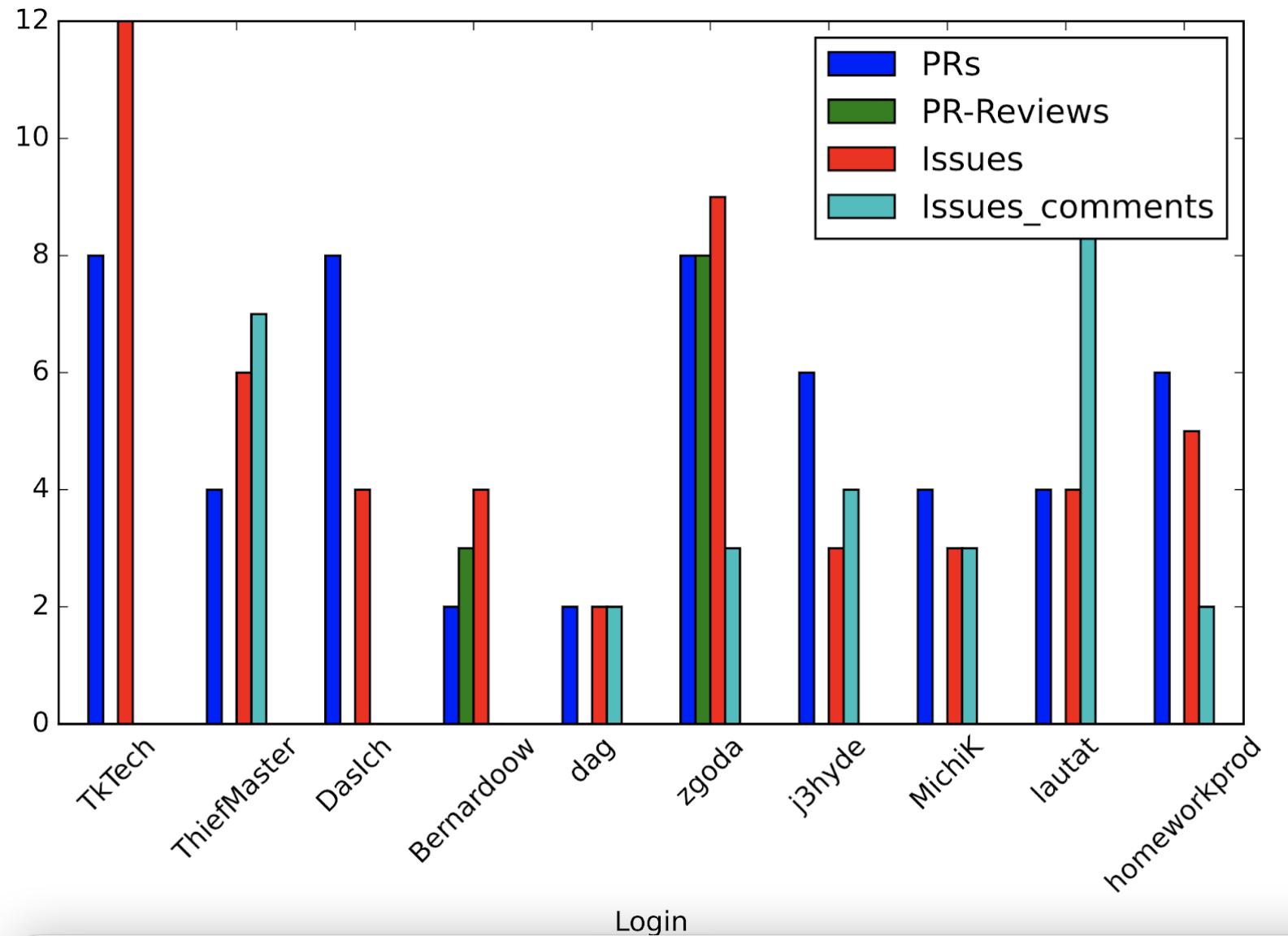
- What has changed between his feature branch and the dev branch
- Checklist of prerequisites (e.g. added documentation, added tests, ready to merge, etc.)
- How to use the feature (a GIF of the feature in action is extremely useful here)
- How the design has changed and how it compares to the design mockups (screenshots comparing the designs to the implementation)
- Additional notes the reviewers should be made aware of

What goes into a pull request is usually highly project-dependant. Often times, you will see projects that have lots of pull requests make use of [pull request templates](#) to pre-populate a lot of the required information for the PR description.

Once Jimmy is done submitting his detailed pull request, he waits...but not too long!

A good review process requires that pull requests get addressed as soon as possible in order to prevent the project from being impeded. Ideally, pull requests are reviewed within two hours of their submission.

830 8 ...



# Project Evaluation

- Project Evaluation