



Hi A yellow emoji of two hands clapping, with small blue wavy lines above each hand indicating motion.



# Git and GitHub for students



# Sankalp Kotewar

GitHub

Software Development Engineer 2



# Agenda for the session



Git  
Part 1



GitHub  
Part 2





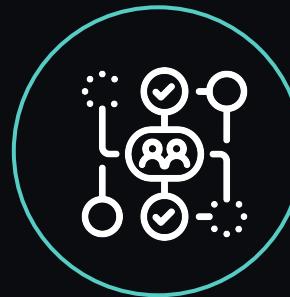
The software world  
How software is built?



Version control  
Some history



Repositories  
Where the code lies...



A real life example  
Some hands on!





## Getting started

User Account, Repo,  
Code review



## Features

Issues, Discussions,  
Security, Integrations



## Products

Actions, Codespaces,  
Copilot, Packages



## Benefits

For college students  
and teachers





# Git

Let's understand Git



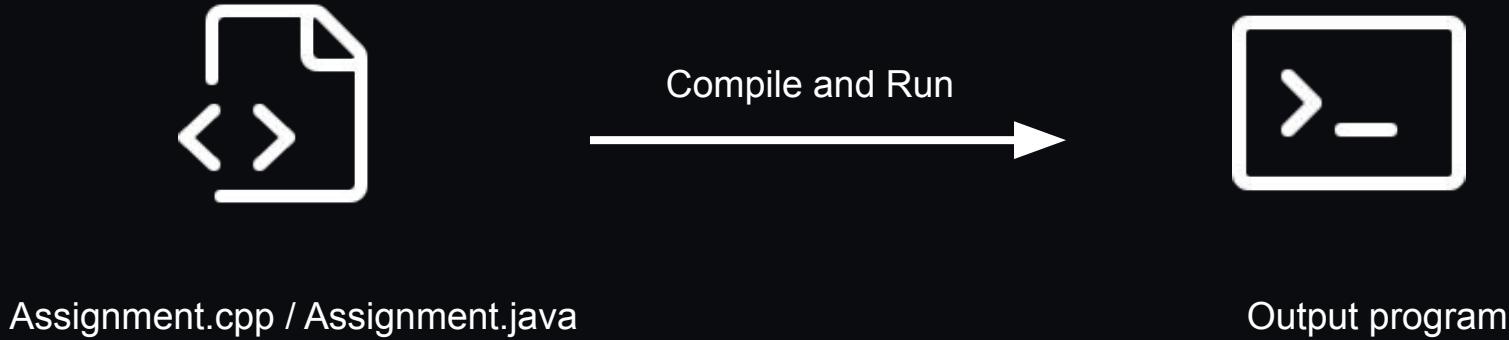


# The software world

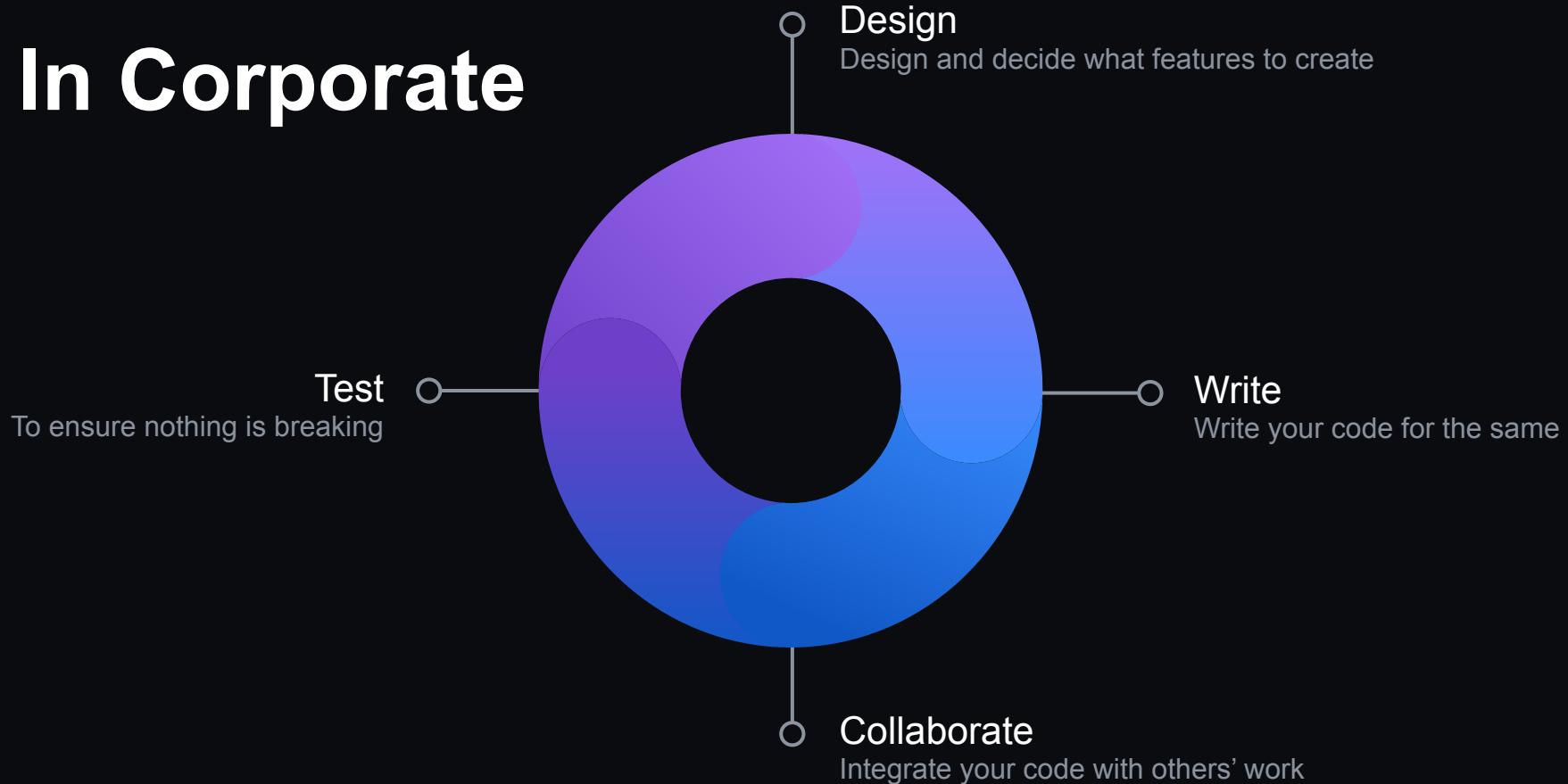
How software is built?



# In College



# In Corporate



# Collaboration in a workplace

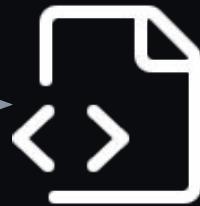
- 
- 1 Multiple Products
  - 2 Multiple Services
  - 3 Multiple Developers
  - 4 Multiple Features



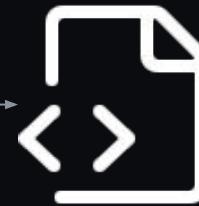
# Managing an organization?



Assignment.cpp

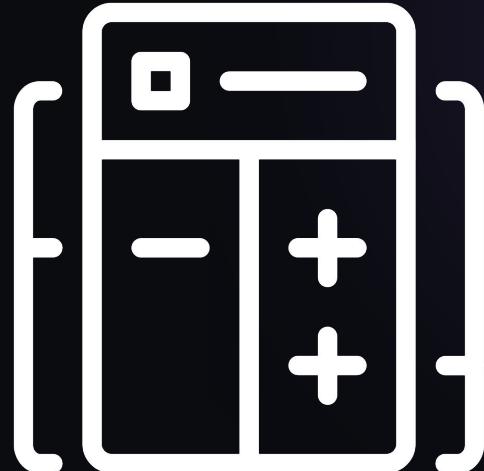


Assignment(1).cpp



Assignment(2).cpp

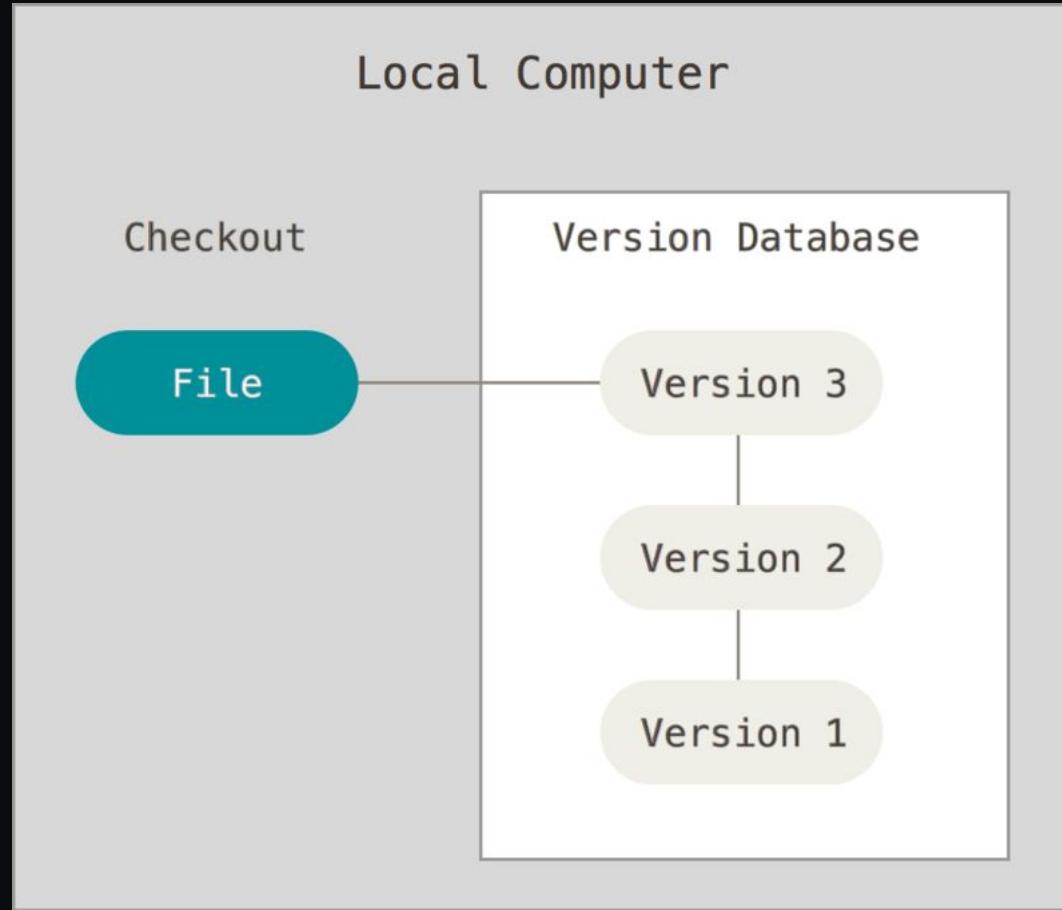


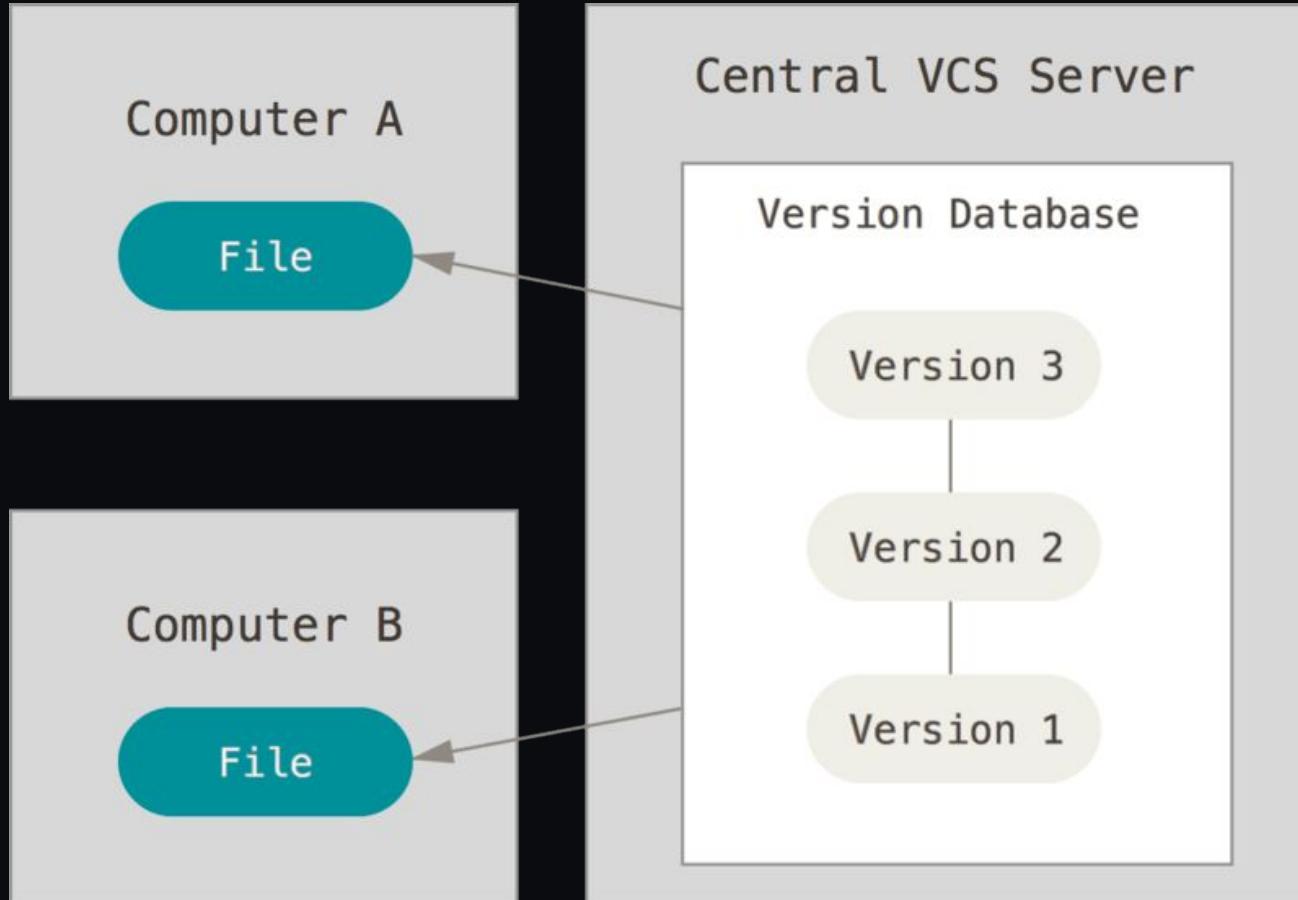


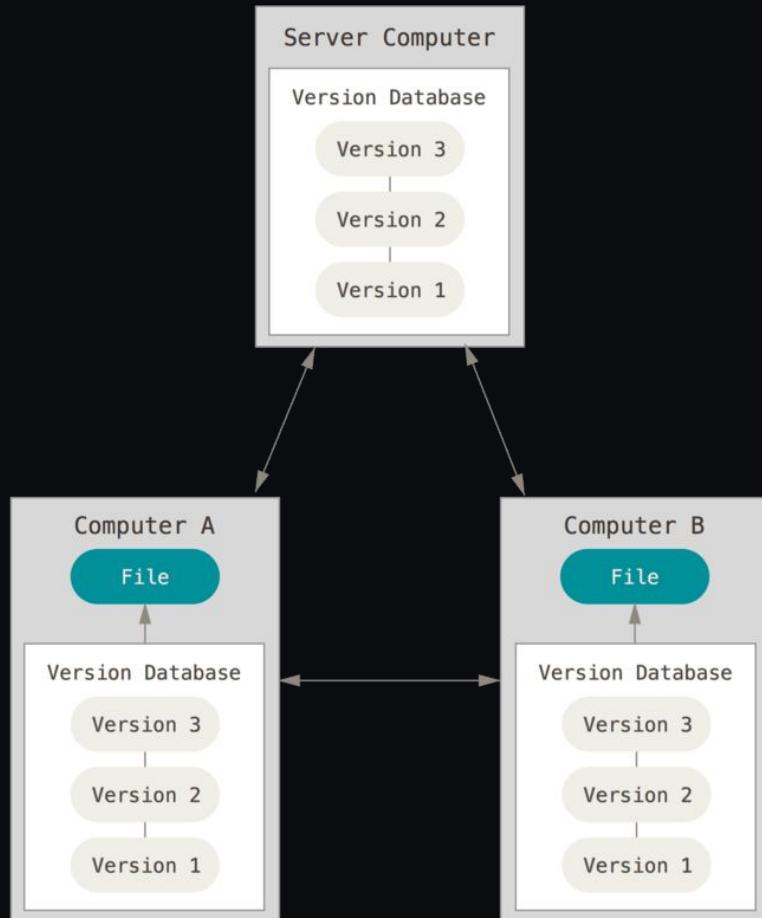
# Version control

Some history





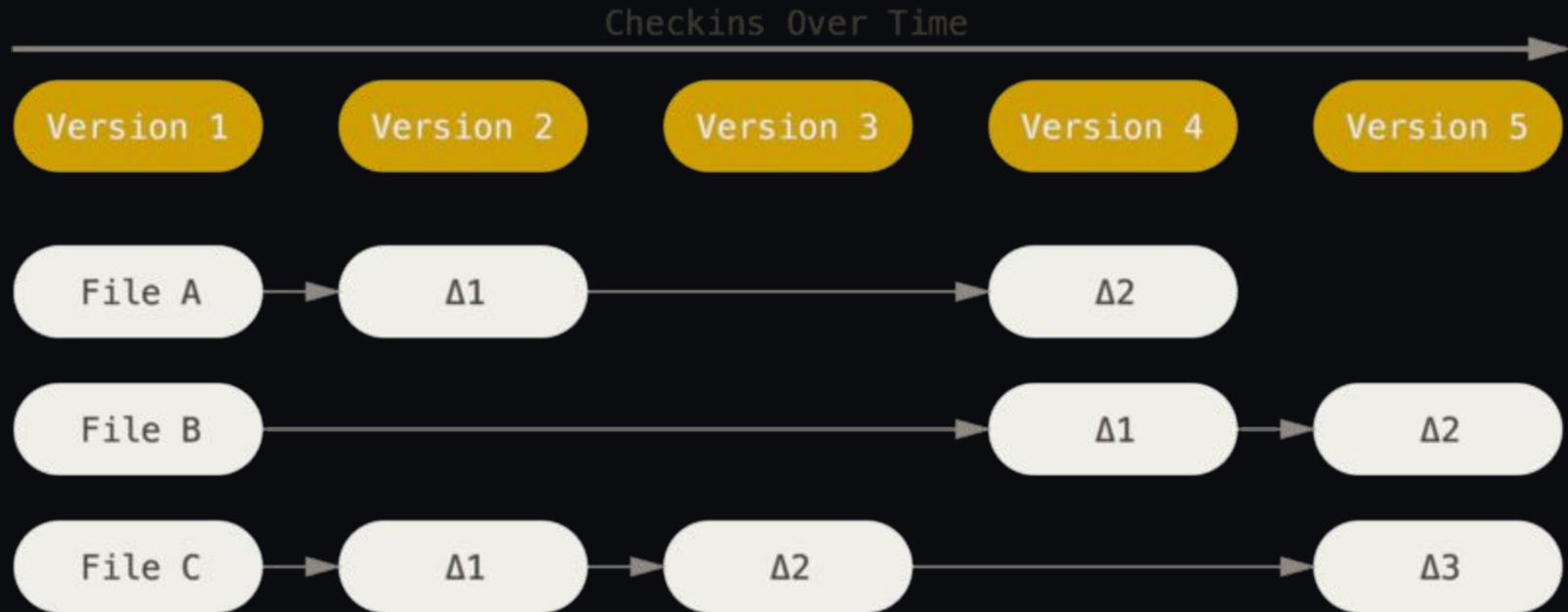




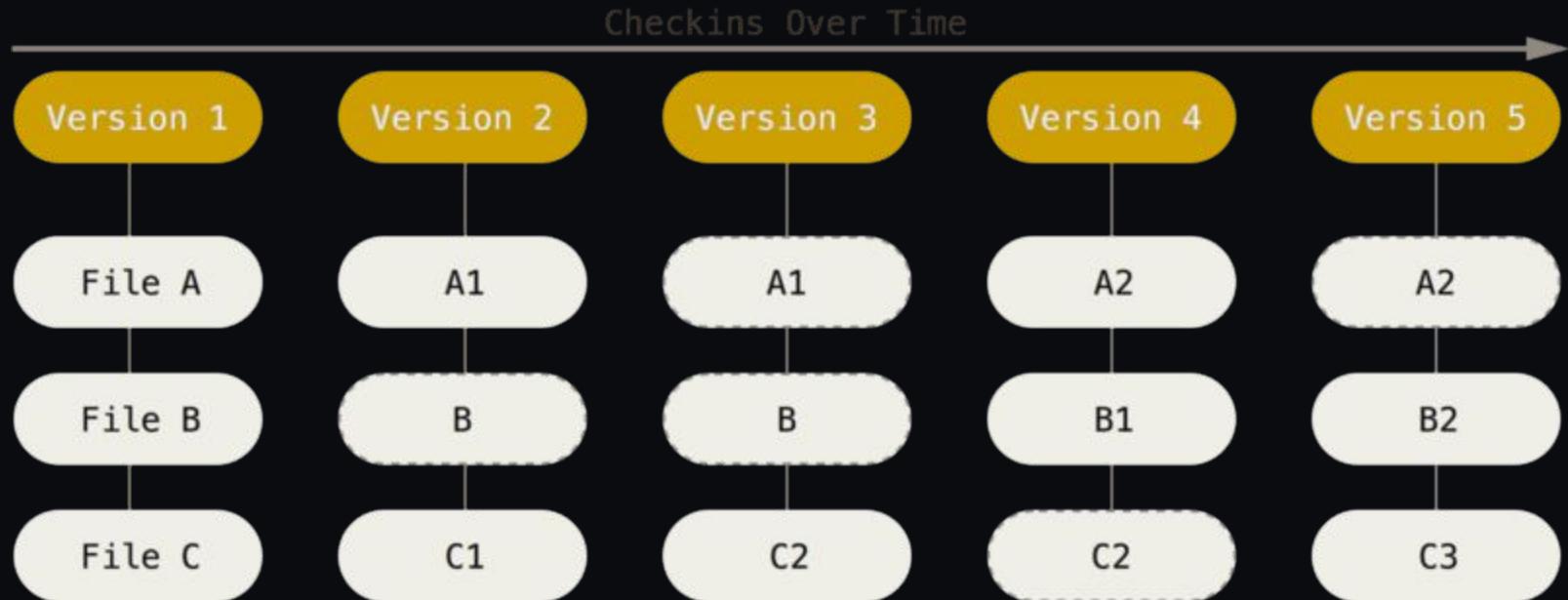
# Let's understand versioning



# Delta based versioning



# Snapshots based versioning

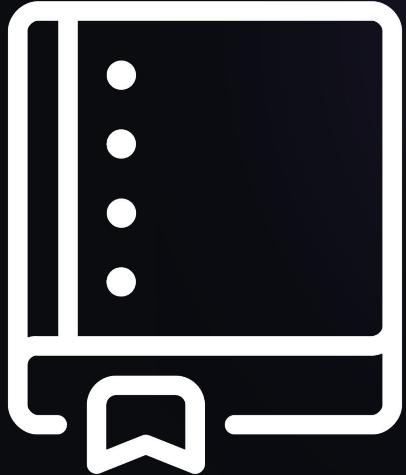




# The software world

Where do we store the files?





# Repositories

Where the code lies...



# Repositories

1

Any folder can be made a repo

\$ git init - To initialize the repository

Or

\$ git clone - To create a local copy

2

Make your changes

\$ git status

To track the changed files

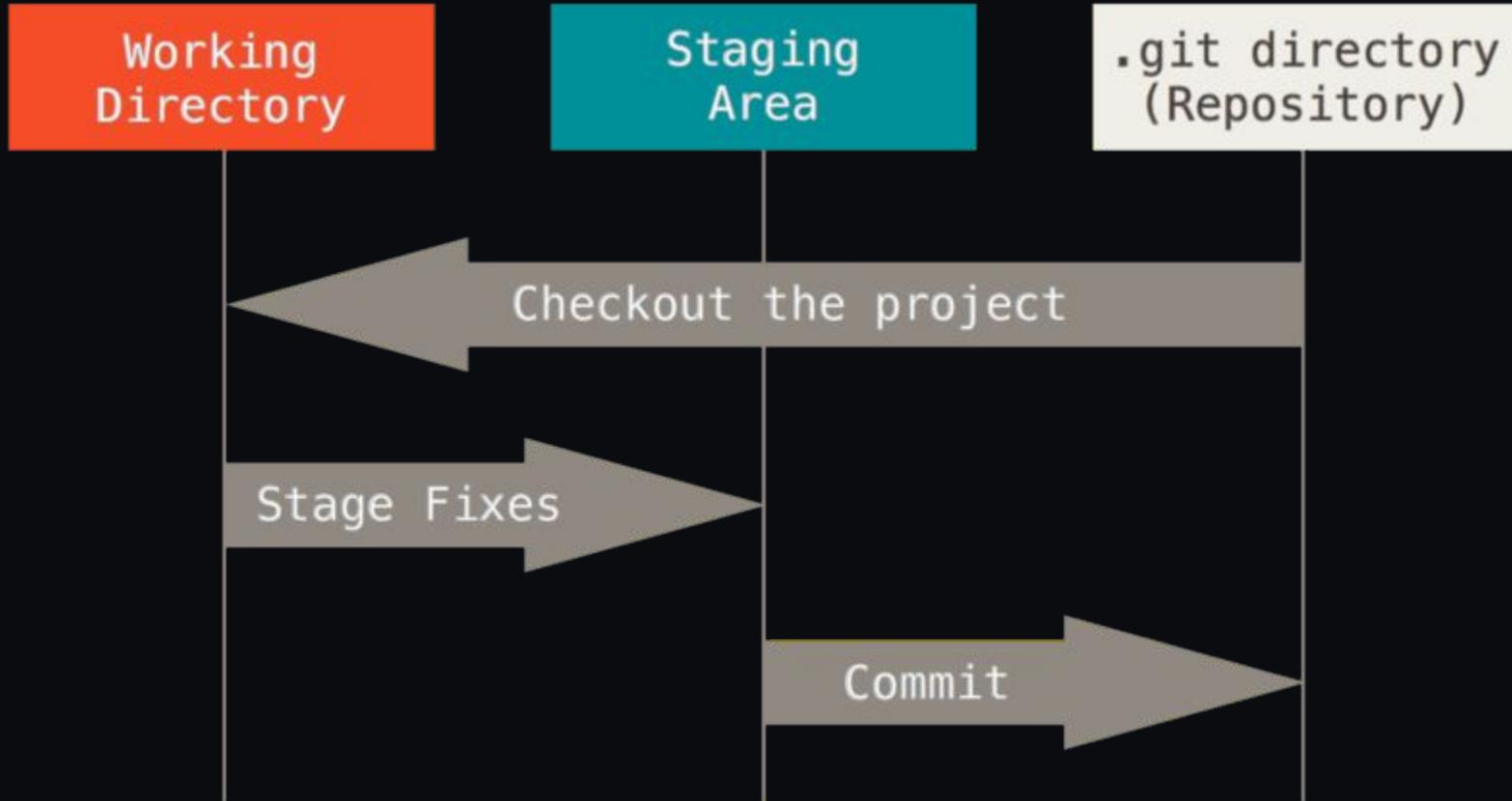
3

Stage files

\$ git add <filename>

Mark file as ready to commit





# Repositories

4

Commit

```
$ git commit -m "message"
```

Capture a snapshot of the project's currently staged changes

5

Push

```
$ git push
```

Push the commits to remote repo

6

And that's it...

Verify your commits in remote.

You can `git pull` on other device to pull the changes



# Branches

1

Checkout a new branch

```
$ git checkout branch-name
```

This creates a new branch. Any changes you make and commit don't affect the main code.

2

Make your changes

```
$ git commit && git push
```

As described previously

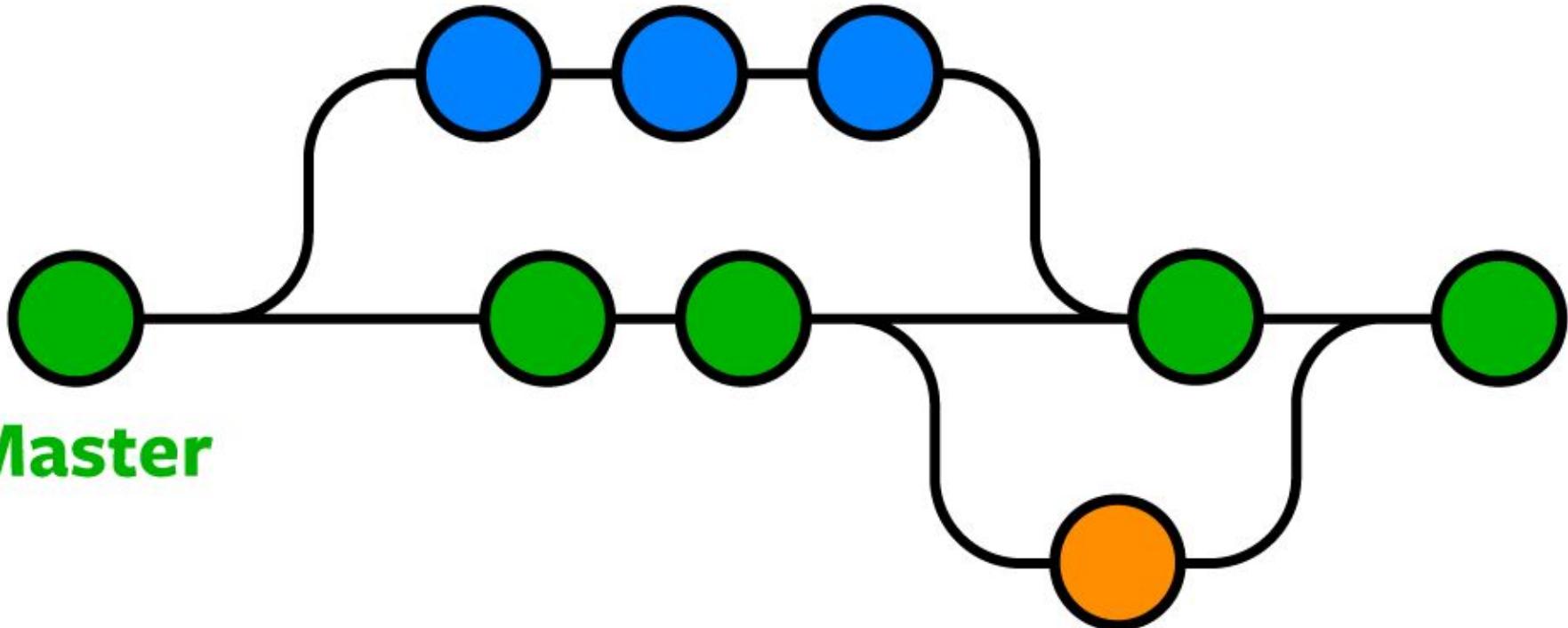
3

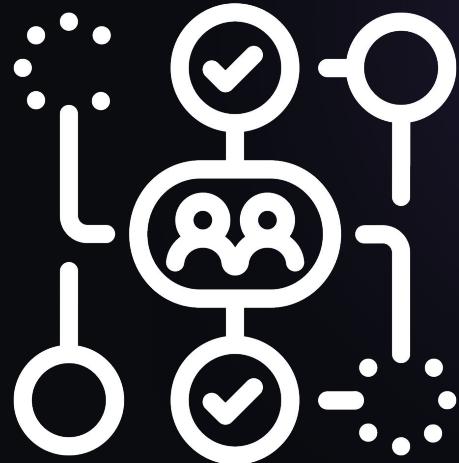
Raise a Pull request

Contributor asks a maintainer of a Git repository to review code they want to merge into a project.



# Your Work





# A real life example

Some hands on!



# Q&A





# GitHub

Where the world builds software



# Where the world builds software

**83M+**

Developers

**4M+**

Organizations

**2.6B+**

Contributions  
per year

**1,000+**

Top open source  
communities

**200M+**

Private + public  
repositories





# Getting started

User Account, Repo, Code review



# User Account

[github.com/join](https://github.com/join)





Join GitHub

## First, let's create your user account

Username \*

Email address \*

Password \*

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Email preferences

Send me occasional product updates, announcements, and offers.

Verify your account

Pick the spiral galaxy



Create account

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.



 GitHub + 1

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Recent Repositories New

Find a repository...

-  twoawaits/make-pull-request
-  sankalpkotewar/sankalpkotewar
-  sankalpkotewar/sankalpkotewar.github.io
-  burhanahmeed/chat-whatsapp
-  sankalpkotewar/Just-software-engineering-stuff
-  sankalpkotewar/8\_puzzle\_astar\_java
-  sankalpkotewar/sempre

Show more

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Following For you Beta

unmeshjoshi made [unmeshjoshi/paxosworkshop](#) public 10 hours ago

 unmeshjoshi/paxosworkshop

Java ⭐ 1 Updated Sep 2



aryanvikash starred [charlermarsh/ruff](#) 13 hours ago

 charlermarsh/ruff

An extremely fast Python linter, written in Rust.

Rust ⭐ 1.3k Updated Sep 2



vidursatija starred [huggingface/diffusers](#) 18 hours ago

 huggingface/diffusers

Diffusers: State-of-the-art diffusion models for image and audio generation in PyTorch

Python ⭐ 4.3k Updated Sep 2



cyberboysumanjay started following [praveen-25p](#) yesterday

 Praveen Kumar Sahu praveen-25p

It is what it is...

7 repositories 2 followers



Samridhi-98 forked [Samridhi-98/blockly](#) from [google/blockly](#) 4 days ago

 google/blockly

The web-based visual programming editor.

JavaScript ⭐ 10.6k 63 issues need help Updated Sep 1



Samridhi-98 starred [google/blockly](#) 4 days ago

  
Let's build from here  
Join the global developer event for cloud, security, community, and AI.  
Register today and get a 20% off early bird discount.  
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Latest changes

- 27 minutes ago The new GitHub Issues – September 2nd update
- Yesterday GitHub Actions Larger runners – Are now in public beta
- Yesterday Deprecating Learning Lab
- 2 days ago Update and configure code security enablement settings via the organization...

[View changelog →](#)



sankalpkotewar (Sankalp Kotewar) +  
github.com/sankalpkotewar

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**Sankalp Kotewar**  
sankalpkotewar  
Enthusiastic learner  
[Edit profile](#)

8 followers · 39 following

GitHub India <https://sankalpkotewar.github.io> @sankalpkotewar

Achievements

Popular repositories

Customize your pins

My GitHub Statistics

Total Stars:	0
Total Commits:	15
Total PRs:	1
Total Issues:	1
Contributed to:	1

A+ 

My Programming Languages



JavaScript (52.87%) Java (46.98%) HTML (0.15%)

8\_puzzle\_astar\_java Public I am uploading all the artificial intelligence assignments here. Java

sempre Public Forked from percyliang/sempre Semantic Parser with Execution Java

Hi 🙌 I'm Sankalp Kotewar

I am a full time software engineer from India. I am art and science enthusiast.

Profile views 248

GitHub Analytics



Your Repositories

github.com/sankalpkotewar?tab=repositories&q=&type=&language=&sort=name

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Find a repository... Type Language Sort New

**100-days-of-code** Public Forked from kallaway/100-days-of-code Fork this template for the 100 days journal - to keep yourself accountable (multiple languages available)

11,076 Updated on 22 Jul 2021

**1on1-questions** Public Forked from VGrupaera/1on1-questions Mega list of 1 on 1 meeting questions compiled from a variety of sources

JavaScript 608 MIT License Updated on 5 Jun 2020

**8\_puzzle\_astar\_java** Public I am uploading all the artificial intelligence assignments here.

Java Updated on 17 Sep 2017

**AlgoDaily** Public Forked from calvinchankit/AlgoDaily My Daily Algo Practice Journey

Python 34 Updated on 20 Jun 2020

**algodeck** Public Forked from teivah/algodeck An Open-Source Collection of +200 Algorithmic Flash Cards to Help you Preparing your Algorithm & Data Structure Interview

467 Updated on 8 Feb 2020



Create a New Repository

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## 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 \*

sankalpkotewar / my-test-repo ✓

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

Description (optional)

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.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

① You are creating a public repository in your personal account.

**Create repository**

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sankalpkotewar/my-test-repo +

github.com/sankalpkotewar/my-test-repo

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Pin Unwatch 1 Fork 0 Star 0

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/sankalpkotewar/my-test-repo.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# my-test-repo" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/sankalpkotewar/my-test-repo.git  
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/sankalpkotewar/my-test-repo.git  
git branch -M main  
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

ProTip! Use the URL for this page when adding GitHub as a remote.

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sankalpkotewar/my-test-repo +

github.com/sankalpkotewar/my-test-repo/tree/main

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main 1 branch 0 tags Go to file Add file Code

sankalpkotewar Create README.md ac0b4f6 now 1 commit

README.md Create README.md now

README.md Test file

About

No description, website, or topics provided.

Readme 0 stars 1 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

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# What makes GitHub popular?



# The largest open source community in the world

There are millions of open source projects on GitHub.

<https://github.com/open-source>



# Explore millions of projects

Whatever your interest—whether it's mobile apps or astrophysics—there's an open source project for you.



[Start exploring now](#)

## < > with ❤ by GitHub

We're building developer tools alongside you. We hope they help you perfect your process, work on projects of any size, and share ideas with your friends and coworkers. Take them for a spin or [help us build them](#).



### Atom

Atom is a hackable text editor for the 21st century, built on Electron, and based on everything we love about our favorite editors.



### Hubot

Hubot is a chat bot, modeled after GitHub's Campfire bot, hubot. He's pretty cool. He's extendable with scripts and can work on many different chat services.



### Git Large File Storage

Git LFS is a command line extension and specification for managing large files with Git.





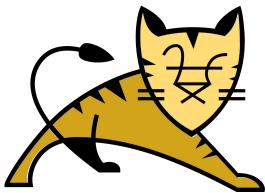
September 03, 2022

Git and GitHub for Students

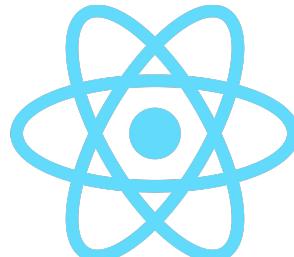
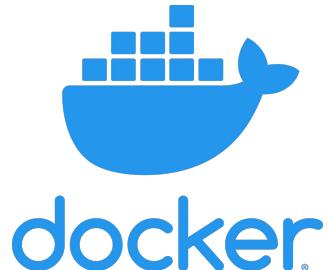
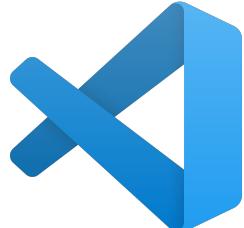
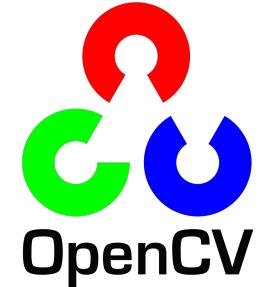
@kotewar

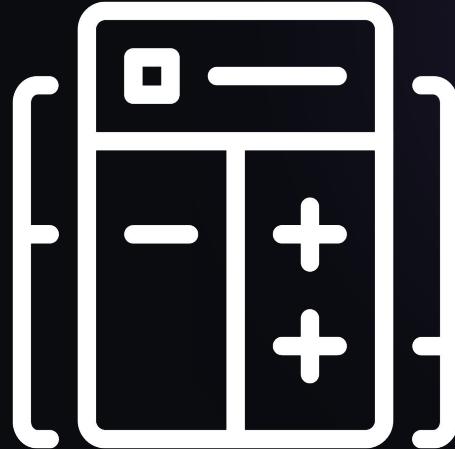


# Some open source projects



django





# Features

Issues, Discussions, Security, Integrations



Issues · python/cpython

github.com/python/cpython/issues

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Code Issues 5k+ Pull requests 1.5k Actions Projects 26 Security Insights

Filters is:issue is:open Labels 62 Milestones 0 New issue

6,804 Open 53,774 Closed

Author Label Projects Milestones Assignee Sort

- main branch code cleanups for int\_max\_str\_digits non-backportable TODOs 3.12 interpreter-core type-feature #96512 opened 24 minutes ago by gpishead 3 tasks
- [wasm32-emscripten] Emscripten node build is not portable to windows type-bug #96509 opened 44 minutes ago by rchiodo 1
- Dump abi without location info type-feature #96506 opened 8 hours ago by tiran
- SyntaxError for walrus target in a comprehension when the target is a global variable with a private name. interpreter-core type-bug #96497 opened 18 hours ago by mrollie45
- IDLE - Fix Shell title bar. docs expert-IDLE #96491 opened 20 hours ago by terryreedy
- Build failure with GCC <= 9.4 when using runtime\_library\_dirs build type-bug #96487 opened 21 hours ago by chrismilne 1
- Using empty dict as default parameter value type-bug #96486 opened 21 hours ago by zpz 1
- Magic Mock does not support fixed point notation in strings type-bug #96485 opened 22 hours ago by carvalhaluis 3 tasks done
- Supporting path-like objects in sys.path type-feature #96482 opened 22 hours ago by Jean-Abou-Samra
- @overload decorator on compiled functions is not tested expert-typing tests type-bug #96478 opened yesterday by sobolevn 5
- Save a few bits in dicts performance type-feature #96472 opened 2 days ago by matthiasgoergens 2
- Queue shutdown type-feature #96470 opened 2 days ago by matthiasgoergens



Pull requests · python/cpython +

github.com/python/cpython/pulls

Pull requests Issues Marketplace Explore

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Filters is:pr is:open Labels 62 Milestones 0 New pull request

1,539 Open ✓ 34,306 Closed

	Author	Label	Projects	Milestones	Reviews	Assignee	Sort
gh-88057: in compile.c, assertion that stackdepth is alway >=0 is missing in one place	#96513 opened 4 minutes ago by irlkatrivel	awaiting core review					
GH-91079: Decouple C stack overflow checks from Python recursion checks.	#96510 opened 36 minutes ago by markshannon	Draft					
fix: bump version tag on HTTP status category indicators	#96508 opened 5 hours ago by alexei	awaiting review docs skip news				1	
gh-95675 filter uid/guid in test_add_dir_getmember	#96505 opened 11 hours ago by ulisespojeda	awaiting review skip news tests					
[3.7] gh-95778: CVE-2020-10735: Prevent DoS by very large int()	#96504 opened 12 hours ago by gpshead	Draft	awaiting core review DO-NOT-MERGE release-blocker			2	
[3.8] gh-95778: CVE-2020-10735: Prevent DoS by very large int()	#96503 opened 12 hours ago by gpshead	awaiting core review release-blocker				1	
[3.9] gh-95778: CVE-2020-10735: Prevent DoS by very large int()	#96502 opened 13 hours ago by gpshead	awaiting core review release-blocker				2	
GitHub Workflows security hardening	#96492 opened 20 hours ago by sashashura	awaiting review skip issue skip news				3	
GH-96465: Cache hashes for Fraction instances	#96483 opened 22 hours ago by rhttner	awaiting core review performance					
GH-96458: Statically initialize utf8 representation of static strings	#96481 opened yesterday by kumaraditya303	Approved	awaiting merge skip news			2	
Dummy commit to test CI	#96480 opened yesterday by tiran	Draft	awaiting core review				
gh-96478: Test @overload on C functions	#96479 opened 20 hours ago by sashashura	expert-typing skip news tests				2	



Date and time issues

python / Projects / Date and time issues

Search or jump to... / +

View 1

Title	Assignees	Status	Labels	Linked pull requests
1 Add datetime.time.strptime and datetime.date.strptime #41431			3.8 extension-modules type-feature	
2 Patch: xmlrpclib client ignores datetime.tzinfo when creating iso8601 dates #46875			expert-XML type-bug	
3 equality not symmetric for subclasses of datetime.date and datetime.datetime #49766	abalkin		3.7 stdlib type-bug	
4 datetime naive and aware types should have a well-defined definition that can be crc #53068		Done	3.10 docs	
5 datetime.utctimetuple() should not set tm_isdst flag to 0 #53250	abalkin	Done	docs easy type-bug	
6 datetime module should use int32_t for date/time components #53280			extension-modules type-feature	
7 plistlib should create non-naive datetime objects #53502	ronaldoussoren		OS-mac stdlib type-bug type-feature	
8 datetime.strptime parses input wrong #57095			3.7 3.8 3.9 3.10 stdlib type-bug	
9 datetime.strptime("%Y") not consistent for years < 1000 #57514			3.7 3.8 3.9 docs easy stdlib type-bug	
10 PEP 3121, 384 refactoring applied to _datetime module #59595			3.11 extension-modules performance	
11 datetime module has no support for nanoseconds #59648	abalkin		3.10 stdlib type-feature	
12 datetime.time support for '+' and '-' #61469			3.8 stdlib type-feature	
13 Datetime and time doesn't update timezone in a running Win app #61827			stdlib type-bug	
14 datetime: support leap seconds #67762			stdlib	
15 Inconsistency in datetime.utcnowfromtimestamp(Decimal) #67795	serhiy-storchaka		3.8 stdlib type-bug	
16 No way to generate or parse timezone as produced by datetime.isoformat() #69142	abalkin	Done	3.12 extension-modules type-feature	
17 update pure python datetime.timedelta creation #69915	abalkin		3.7 stdlib type-feature	
18 datetime.strptime without a year fails on Feb 29 #70647			3.7 3.8 stdlib type-feature	
19 Datetime NoneType after calling Py_Finalize and Py_Initialize #71587	abalkin		3.7 interpreter-core type-bug	
20 Ambiguous datetime comparisons should use == rather than 'is' for tzinfo comparison #72787	abalkin		3.7 stdlib type-bug	
21 __reduce__ not being called in derived extension class from datetime.datetime #72916			expert-IO type-bug	
22 datetime.datetime.strptime('200722','%Y%U') #74985			3.7 3.8 stdlib type-bug	
23 datetime: min date (0001-01-01 00:00:00) can't be converted to local timestamp. #75395	abalkin		3.8 extension-modules type-bug	



Security Advisories · github/codeql-action · +

github.com/github/codeql-action/security/advisories

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github / codeql-action Public

Code Issues 67 Pull requests 3 Actions Projects Security 1 Insights

Overview Reporting Policy **Advisories** 1

## Security Advisories

View information about security vulnerabilities from this repository's maintainers.

✓ 1 Published

CodeQL runner: Command-line options that make GitHub access tokens visible to other processes are now deprecated Moderate severity

GHSA-g36v-2xff-pv5m published on 25 May 2021 by adityasharad

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# Products

Actions, Codespaces, Copilot, Packages

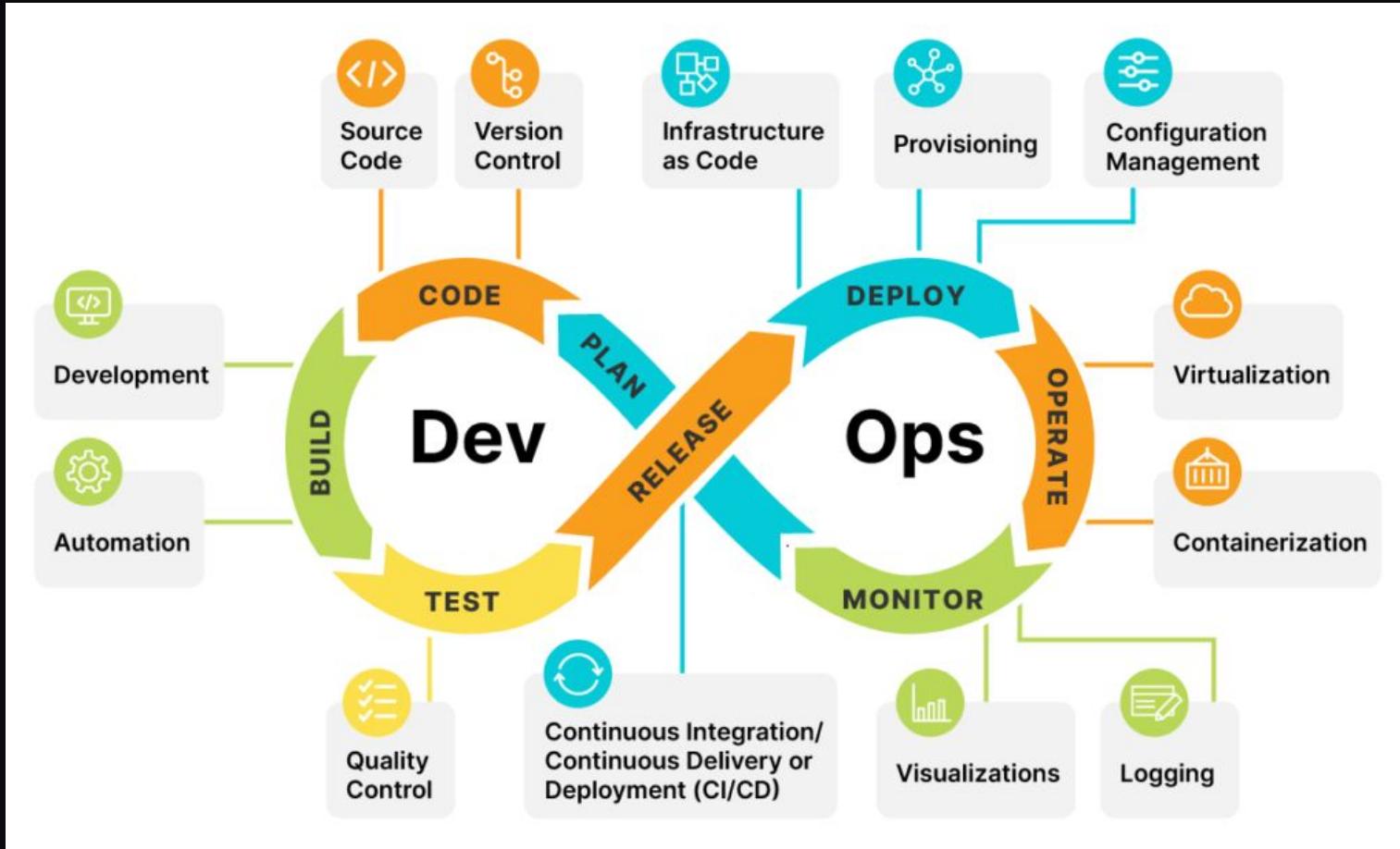




# The software world

DevOps







GitHub Actions

# Automate your workflow from idea to production

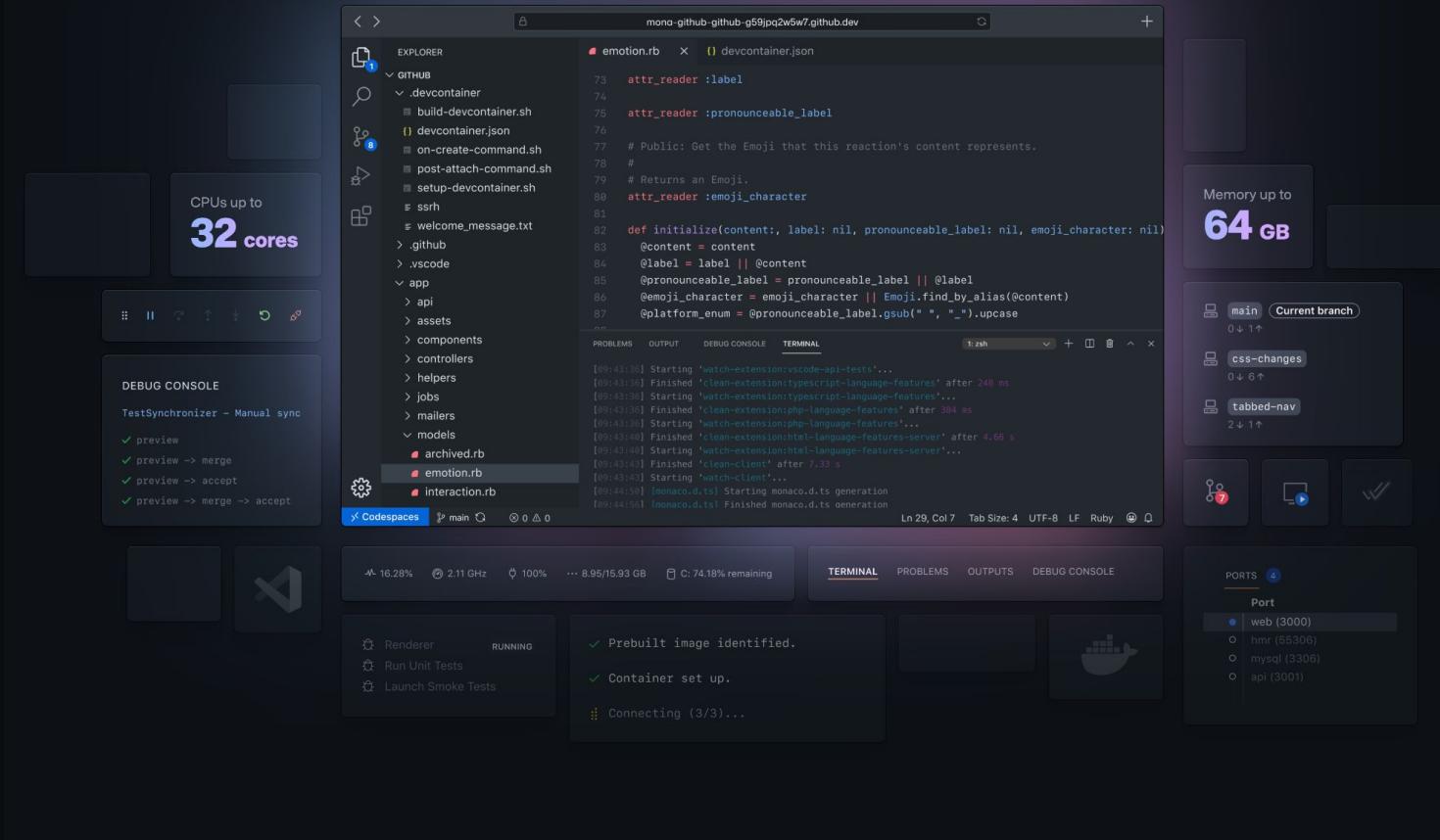
GitHub Actions makes it easy to automate all your software workflows, now with world-class CI/CD. Build, test, and deploy your code right from GitHub. Make code reviews, branch management, and issue triaging work the way you want.

[Get started with Actions >](#)

Questions? [Contact Sales](#) >



Desktop  Browser



The screenshot displays a developer's workspace with multiple integrated tools:

- EXPLORER:** Shows a GitHub repository structure with files like `devcontainer.sh`, `devcontainer.json`, `on-create-command.sh`, `post-attach-command.sh`, `setup-devcontainer.sh`, `ssrh`, and `welcome_message.txt`.
- TERMINAL:** Shows command-line activity related to watching extensions and starting a monaco.d.ts generator.
- PROBLEMS:** Lists errors or warnings from the code editor.
- OUTPUT:** Displays build logs.
- DEBUG CONSOLE:** Shows a list of preview operations: "preview", "preview -> merge", "preview -> accept", and "preview -> merge -> accept".
- CODESPACES:** Shows resource usage: 16.28% CPU, 2.11 GHz, 100% RAM, and 8.95/15.93 GB disk space remaining.
- PORTS:** Lists active ports: web (3000), hmr (55306), mysql (3306), and api (3001).
- Memory up to 64 GB:** A system status indicator.
- System Status:** Shows a GitHub icon and a progress bar for "Connecting (3/3)".
- Bottom Navigation:** Includes icons for Render, Run Unit Tests, Launch Smoke Tests, and a GitHub icon.



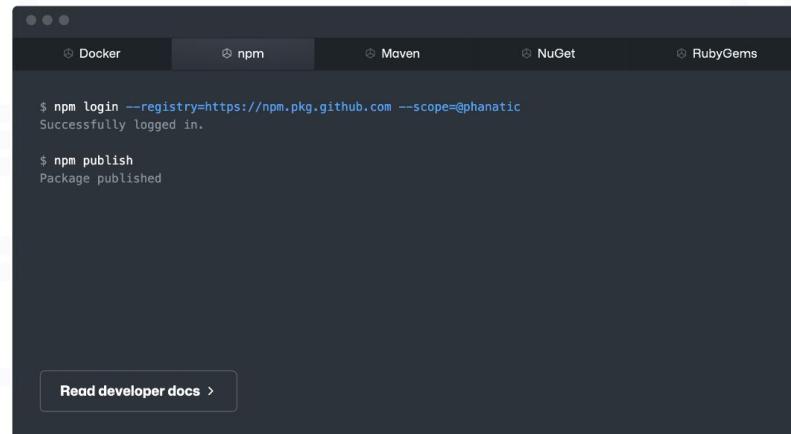
GitHub Packages

# Your packages, at home with their code

With GitHub Packages, you can safely publish and consume packages within your organization or with the entire world.

[Get started >](#)

[See pricing](#)



```
$ npm login --registry=https://npm.pkg.github.com --scope=@phanatic
Successfully logged in.

$ npm publish
Package published
```

[Read developer docs >](#)





# Your AI pair programmer

GitHub Copilot uses the OpenAI Codex to suggest code and entire functions in real-time, right from your editor.

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A screenshot of a GitHub Copilot interface. At the top, there's a dark header bar with the GitHub logo, navigation links like Product, Team, Enterprise, Explore, Marketplace, Pricing, and user authentication links (Sign in, Sign up). Below the header is a large, bold title "Your AI pair programmer". Underneath the title is a descriptive text: "GitHub Copilot uses the OpenAI Codex to suggest code and entire functions in real-time, right from your editor." Two buttons are present: "Start my free trial >" and "Explore docs". The main area shows a code editor window with several tabs at the top: "sentiments.ts", "write\_sql.go", "parse\_expenses.py", and "addresses.rb". The "sentiments.ts" tab is active. The code editor displays the following TypeScript code:

```
1 #!/usr/bin/env ts-node
2
3 import { fetch } from "fetch-h2";
4
5 // Determine whether the sentiment of text is positive
6 // Use a web service
7 async function isPositive(text: string): Promise<boolean> {
8   const response = await fetch(`http://text-processing.com/api/sentiment/`, {
9     method: "POST",
10     body: `text=${text}`,
11     headers: {
12       "Content-Type": "application/x-www-form-urlencoded",
13     },
14   });
15   const json = await response.json();
16   return json.label === "pos";
17 }
```

At the bottom of the code editor, there's a blue button labeled "Copilot" with a circular arrow icon, and a "Replay" button with a circular arrow icon to its right.



# The home for developer communities

Ask questions, share ideas, and build connections with each other—all right next to your code. GitHub Discussions enables healthy and productive software collaboration.

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The screenshot shows the GitHub Discussions interface for the repository 'acme / octoinvaders'. A green badge at the top left indicates 07 new discussions. The 'Discussions' tab is selected in the navigation bar. On the left, there's a sidebar with categories: View all, General, Show & tell, Getting started, Feedback, Q&A, Game engine, and Art & Design. A red 'Answered' badge is overlaid on the 'Getting started' section. The main area lists discussions with their titles, authors, and counts of comments and reactions. A modal window is open over the list, showing a discussion titled 'Octoinvaders beta registration' by 'tonyaramilto' with 5 comments and 68 reactions. A callout bubble from this modal says 'Converted from issue'. A speech bubble icon is also visible on the right side of the interface.

Discussion Title	Author	Comments	Reactions
Power-up contest	johncreek	2	31
Solo and coop modes	ajashams	3	42
Mars level design	anthonyvshark	2	32
Implement sustainability themes into the game	amandawan	2	12
Need help setting up the game engine on local	estyled	2	5
Octoinvaders beta registration	tonyaramilto	5	68





# Benefits

For college students and teachers  
[education.github.com](https://education.github.com)



# Where future developers meet

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# Q&A



# Thank you





Reach out to me on



/sankalpkotewar



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