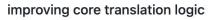
GitHub Roadmap Galaxy 2024



Jamie Jones

VP, Technical Partners and Global Field Services

ibjonesjr committed 2 minutes ago	06f688e	C)	<>
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for real, for real ibjonesjr committed 6 minutes ago	f3bea1f	_C	<>
ONE MORE TIME ibjonesjr committed 6 minutes ago	424f362	C	<>
this is it, right? (i) jbjonesjr committed 7 minutes ago	dee3511	_C	<>
let's try this ONE more time ibjonesjr committed 7 minutes ago	14ecd5e	_C	<>
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Move Fast Safely



Move Fast



Optimize
Operational
Efficiency



Accelerate Productivity



Reduce Technical Debt



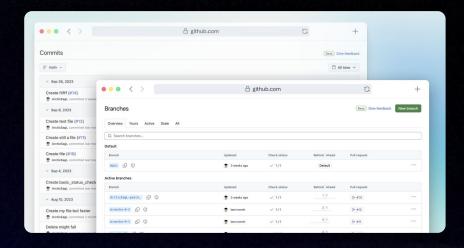
How can we deal with the increasing complexity of software projects?

Optimize Operational Efficiency

Improved Repository Experience

The updated repository experience provides a tree view ensuring you don't lose previous context when clicking into a new folder.

Live in GHEC and coming to GHES 3.13



New UI/UX





Optimize Operational Efficiency

Improvements to workflows

Help implement workflows faster, by saving custom starter workflows to your private repositories and access them in a single place

```
name: learn-github-actions
run-name: ${{ github.actor }} is learning GitHub Actions
on: [push]
jobs:
    check-bats-version:
    runs-on: ubuntu-latest
    steps:
    - uses: actions/checkout@v4
    - uses: actions/setup-node@v4
    with:
        node-version: '20'
    - run: npm install -g bats
    - run: bats -v
```







How can we enable developers to do their best work?



Accelerate productivity

Copilot enhancements for core GitHub features

GitHub Copilot will continually improve its utility for GitHub native features, such as pull requests, commits, Issues, Discussions, and more.

Ex: assisting development teams with code reviews, from authoring to merge, with explanations, recommendations, and smart actions for pull requests.



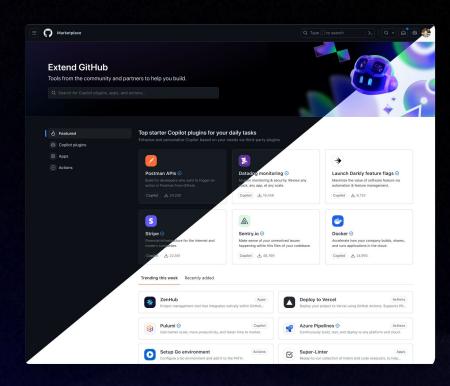




Accelerate productivity

Copilot extensions (limited public beta)

Add functionality from preferred first- and third-party developer tools and services, such as Azure, Docker, Sentry, and more, or build your own to customize your organization's GitHub Copilot experience.









How can we effectively identify, prioritize, and address technical debt?



Reduce Technical Debt

Autofix Improvements

Expanding autofix's language support for C# and Go.

The ability to leverage autofix wherever you work, meaning integrating with the most popular IDE's like Visual Studio Code.







- 2. Import the escape-html library in the src/test.js file.
- 3. Use the escape function from the escape-html library to sanitize the req.query.name parameter before using it in the HTTP response.

```
Suggested fix generated by CodeQL and Al (Beta)
              00 -1,4 +1,5 00
             const express = require('express');
          2 + const escape = require('escape-html');
               const app = express();
             - app.get('/', (req, res) => res.send(`Hello , ${req.query.name}!`));
          5 + app.get('/', (req, res) => res.send(`Hello , ${escape(req.query.name)}!`));
package.json (Outside changed files
              00 -15,3 +15,4 00
                     "react-scripts": "4.0.3",
  16
                    "express": "^4.17.1"
         16 + "express": "^4.17.1",
         17 + "escape-html": "^1.0.3"
                   },
                                                          Dismiss suggestion
                                                                            Edit ▼
                                                                                     Commit fix ▼
```

This feature may produce inaccurate results. Double-check the suggested code change and make any necessary adjustments.

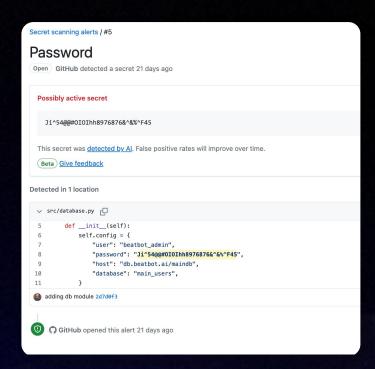


Reduce Technical Debt

Generic Secret Detection (Public Beta)

Better detect potential leaked secrets.

Secret scanning will leverage AI to detect generic or unstructured secrets to reduce false positives and the associated noise for users.







Move Safely



Provide flexible governance



Enhance visibility



Deliver enterprise grade features





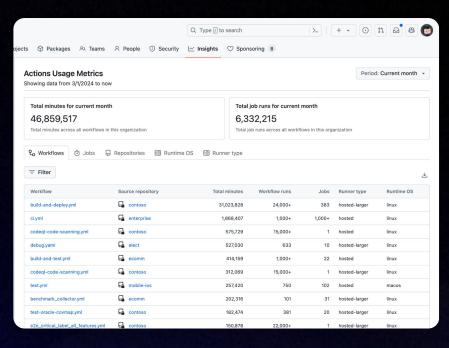
How can we enhance monitoring and proactively address issues before they impact our operations?



Visibility

Improvements to Actions Usage Metrics

Organization admins now have comprehensive, actionable data to optimize CI/CD workflows, control resources, and enhance productivity for developer teams.





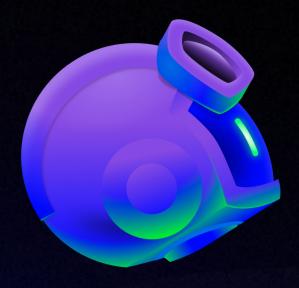


Visibility

Copilot Metrics API (public beta)

Gain valuable insights into your organization's GitHub Copilot usage. Highlights include:

- Number of suggestions generated and suggestions accepted
- Up to 28 days of metrics history available via a rolling window

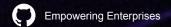








How can we ensure compliance and control without stifling innovation?

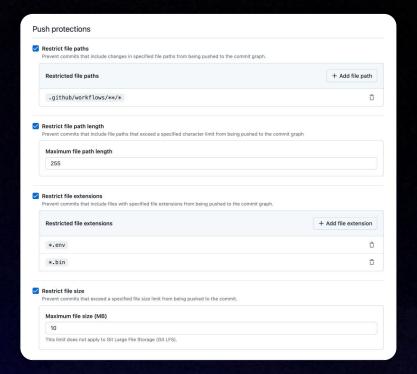


Flexible Governance

Push Rules

Enforce policies on pushes across an organization, or targeted at specific repositories.

Developer's can quickly confirm their code meet's your organization's standards, on every push - so they can move fast, but stay compliant.







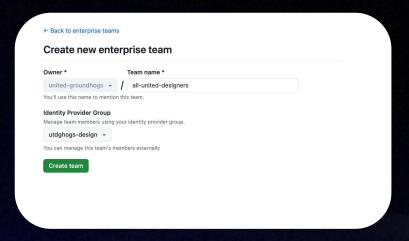


Flexible Governance

Truly enterprise-first access & authz control

Scale granular access & permission management across a large enterprise, efficiently - through enterprise-level user & app management, including:

- Assign organization-wide roles (ex repo "read")
- Create enterprise-level teams
- Install apps once across an enterprise
- Add enterprise collaborators from your IdP









How can we incorporate features that empower enterprises?



Enterprise Grade Features

Copilot custom models (limited public beta)

Train a bespoke copilot that is personalized and private to your organization.

- Coding suggestions based on your repositories
- Enhanced gains on productivity, efficiency, and code quality





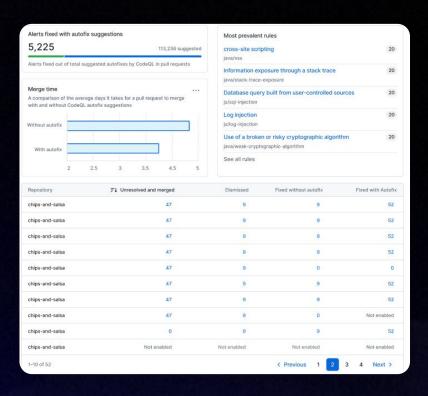


Enterprise Grade Features

Streamlined Reporting Capabilities

New and improved reporting, policy and compliance workflows to manage application security risk across your organization.

Generate new reports like compliance or executive reports, which help adhere to security and compliance standards.





Thank you