

Integrating CI/CD with GitHub

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This talk was originally scheduled to be about Scaling and Building GitHub, but that talk was canceled in the last minute. That was replaced with a topic on Integrating CI/CD in GitHub projects.

GitHub API

- GitHub started 10 years ago. Pull Request was the first feature developed.
- Available since inception

Integrating CI/CD with GitHub's API

- Continuous integration and development - tools to improve dev piece of mind.
- Pipeline
- Source Control ==> Build ==> Staging ==> Production.

Other Products

- GitHub Apps
 - E.g. Pull Reminders
 - Offer more granular permissions to access data
- GitHub Marketplace
- Beyonce's quote: If everything was perfect, you would never learn and never grow.

CI/CD Linting

- GitHub Engineering blog - Removing jQuery from [GitHub.com](https://github.com) frontend.
- Great CI at work - super gif :)

Checks API

- Similar to OAuth integration
- Sophisticated feedback

- Also used by Travis CI
- Checks share more information about your build from within GitHub
- In developer preview

Deployment API

- Staging deployments
- Heroku servers - used as staging environments. Is it like pre-production test environment?
- Commit -> CI -> Test before production
- github.com/apps/netlify - build, deploy and manage modern web projects. - integrates with the repo, automatically deploys in the staging area to test.
 - Uses Checks and Deployment API
- Separate deployment dashboard
- What are GitHub Pages? - Deployment dashboard comes with the GitHub Pages.

Actions

References

probot.github.io

This is not really a talk about Building and Scaling GitHub. This is totally about Integrating CI/CD with GitHub.