

Hacktoberfest 2021

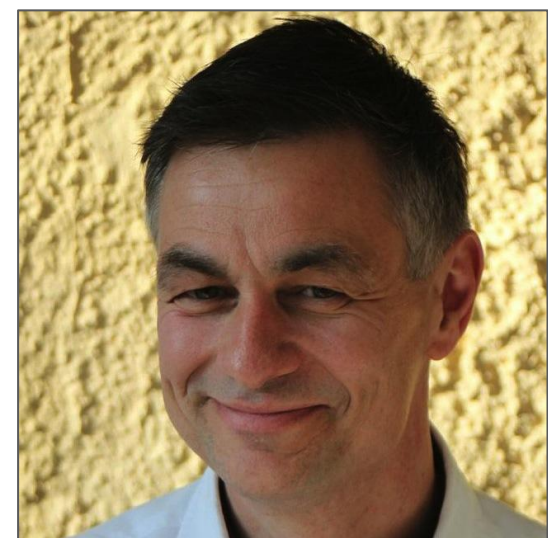
Jenkins

<https://www.meetup.com/Jenkins-online-meetup>

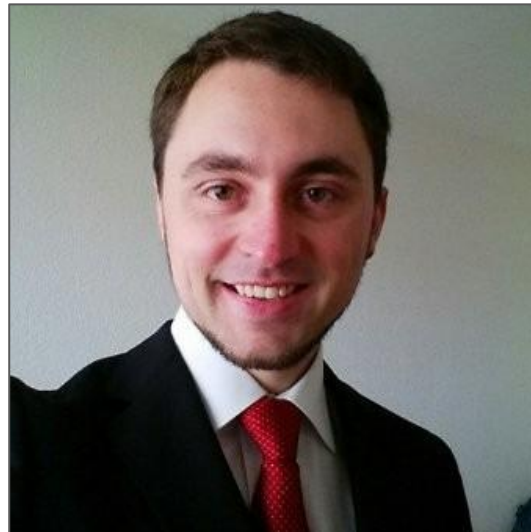
<https://bit.ly/jenkins-hacktoberfest-2021> (these slides)





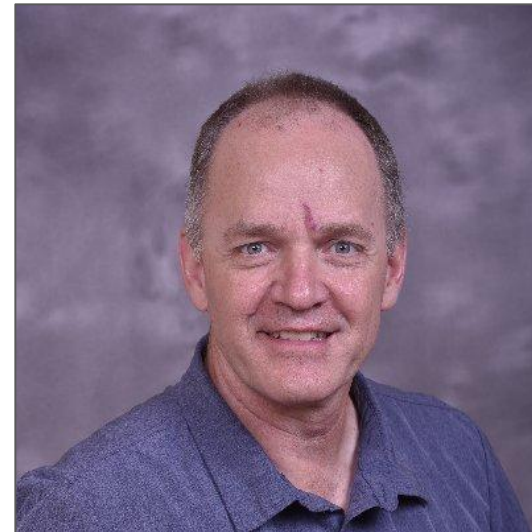
Presenters - Ullrich Hafner, Wadeck Follonier, Mark



 [uhafner](#)



 [wadeck](#)
 [@wadeckfollonier](#)



 [MarkEWaite](#)
 [@MarkEWaite](#)



Jenkins



Hacktoberfest 2021



Today's agenda

- Mark Waite - Welcome and Introductions
- Ulli Hafner - Improving the user experience
- Mark Waite - Migrating plugin docs to GitHub
- Wadeck Follonier - Implementing Content Security Policy
- Mark Waite - Modernizing plugins
- Q&A

hacktober 20 fest 21

Presented by



DigitalOcean



appwrite

intel



deepsource



Hacktoberfest 2021

- Everybody can contribute
- Online events: <https://hacktoberfest.digitalocean.com/>
- Local events: <https://hacktoberfest.digitalocean.com/events>



Contributing to Jenkins

Mark Waite



Jenkins in Hacktoberfest

- <https://jenkins.io/events/hacktoberfest/>
- Organized by Advocacy & Outreach SIG
- Featured projects
- Hundreds of issues



Any pull request counts!

- Code
- Documentation
- Blog posts
- Design and Artwork

[Contributing to Jenkins. It is all about you!](#)



**Jenkins
needs you!**



Where to contribute?

Where to contribute? Featured projects

- User experience
- Plugin Documentation
- Content Security Policy
- Plugin modernization
- Terminology improvements
- Translations ... and more

Details at <https://jenkins.io/events/hacktoberfest/#featured-projects>



Where to contribute? Issue queries

- [Jenkins JIRA issues suggested for Hacktoberfest](#)
- [GitHub issues suggested for Hacktoberfest](#)
- [Newcomer-friendly issues in Jenkins JIRA](#)
- [Good first issues on GitHub](#)



Getting Started

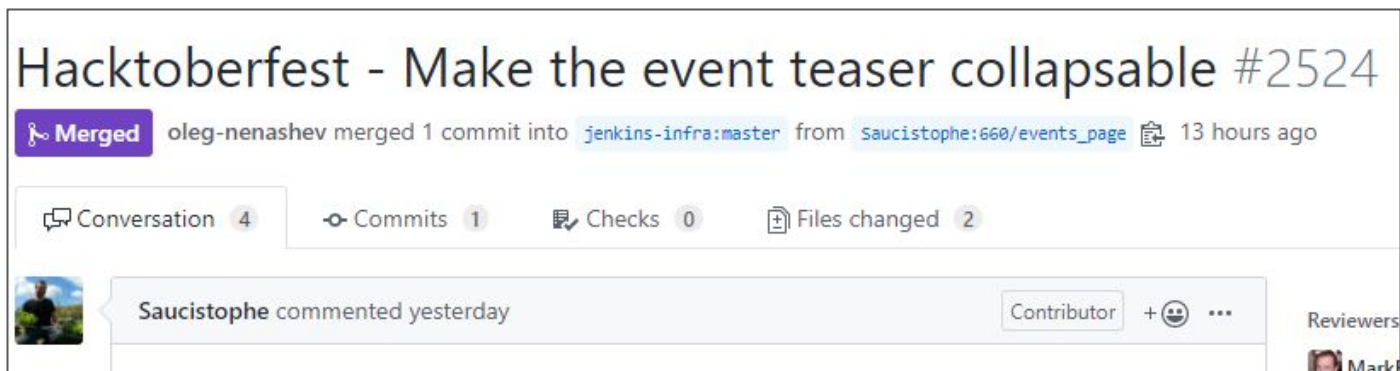


Participating

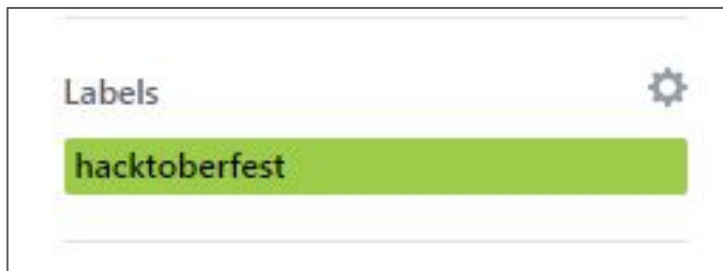
1. Sign-up to Hacktoberfest on [the event website](#)
2. Join our Gitter channel: <https://gitter.im/jenkinsci/hacktoberfest>
3. Everything is set, just start creating pull-requests!

Marking your pull requests

Hacktoberfest in the pull request title



Hacktoberfest label (for maintainers)





More ways to contribute?

More ways to contribute!

MEET

Meet other Jenkins users and share your experiences by organizing and attending events and meetups.

[Read More](#)

CODE

Do you enjoy writing code? There are numerous plugins and components for you to contribute to.

[Read More](#)

HELP

As an experienced user, you can help others get the most out of Jenkins.

[Read More](#)

TRANSLATE

If you're fluent in languages other than English, consider improving support for those languages.

[Read More](#)

TEST

You can help prevent regressions by contributing automated tests.

[Read More](#)

DOCUMENT

Improve the documentation to make it easier for others to get started.

[Read More](#)

DESIGN

As it is intended for daily use by finicky web developers, design is essential

[Read More](#)

REVIEW

Help review changes to code or documentation.

[Read More](#)

Where to contribute? Advanced

Any repository within Jenkins organizations on GitHub

- jenkinsci, jenkins-infra, jenkins-zh, stapler

Upstream projects used in Jenkins

- Honorable mentions: Apache Maven, WinSW

Your own repositories

- Demos and Experiments
- Jenkins Pipelines

Other CDF projects

- <https://cd.foundation/hacktoberfest/>

Useful links

- <https://jenkins.io/participate>
- <https://jenkins.io/events/hacktoberfest>
- <https://jenkins.io/events/hacktoberfest/faq/>
- <https://cd.foundation/hacktoberfest/>
- [Contributing to Jenkins. It is all about you!](#)



Improving code coverage user experience

Ullrich Hafner



State of the Jenkins user interface

- Jenkins user interface mostly consists of static HTML
 - Advantage: can be extended by plugins
 - Disadvantage: boring, not state-of-the-art, not responsive, etc.
- Jenkins User Experience SIG tries to improve the UI
 - Step by step approach (since the big bang Blue Ocean failed)
 - Improvements start in single plugins and then will spread in the ecosystem
 - UI engineers and designers are welcome to participate
 - Meetings are every 4 weeks (see event calendar)

UI improvements in the code coverage plugin

- Code coverage plugin collects and shows coverage data
- UI refresh uses several modern JS libraries
 - Bootstrap 5 to layout the detail views
 - Font Awesome to provide modern SVG icons for all elements
 - ECharts to render trend charts, coverage trees and coverage summaries
 - DataTables.net to provide fast access to the coverage results of files
- Basic features are released yesterday in version 2.0.0
- More improvements to be applied in Hacktoberfest now!



Demonstration



Areas for UI pull requests in Hacktoberfest 2021

- [Code Coverage API plugin](#)
- [Warnings Plugin](#)
- [Jenkins Core](#)



Migrating plugin documentation to GitHub

Mark Waite



Migrating plugin documentation

- Find a plugin to migrate (see [sheet](#) or [progress report](#))
- Find [exported README](#) as starting point
- Create / Update README in plugin repo
- Create images as needed in plugin repo
- Create / Update the CHANGELOG in plugin repo
- Update the pom.xml URL in plugin repo
- Submit pull request



Demonstration



Implementing Content Security Policy

Wadeck Follonier



What is Content Security Policy?

In a nutshell: “global” protection against XSS.

GDoc: https://docs.google.com/document/d/1hr_Kaf0fVWBACibpHbSYsk4RoqcHD3cBrqXxuTtWKVM

MDN documentation: <https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP>



Demonstration Utility of CSP



How could we use Content Security Policy?

Several restriction mode:

- Hashes (like in the demo)
- Nonce
- Origins

What is un-inlining of resources?

As we cannot use the two other approaches, we have to ensure all the scripts are coming from trusted source.

Inline scripts cannot be trusted, so we have to separate them into their own files.



Demonstration

Live coding



Modernizing plugins

Mark Waite



Modernizing plugins - small commits that really help

- Find a plugin to modernize (see [Adopt a plugin](#))
- Fork, clone, and build the plugin
- Update the parent pom and submit pull request
- Update base Jenkins version and SCM URL
- Automate dependency checks
- Enable incrementals
- ...

Detailed steps in <https://bit.ly/contributing-to-open-source>



Demonstration



Contacts

Gitter:

- <https://gitter.im/jenkinsci/hacktoberfest>

GitHub:

- @jenkinsci/hacktoberfest
- @jenkins-infra/hacktoberfest



Have fun!