



Speed up your delivery process

with storyBook and Jenkins

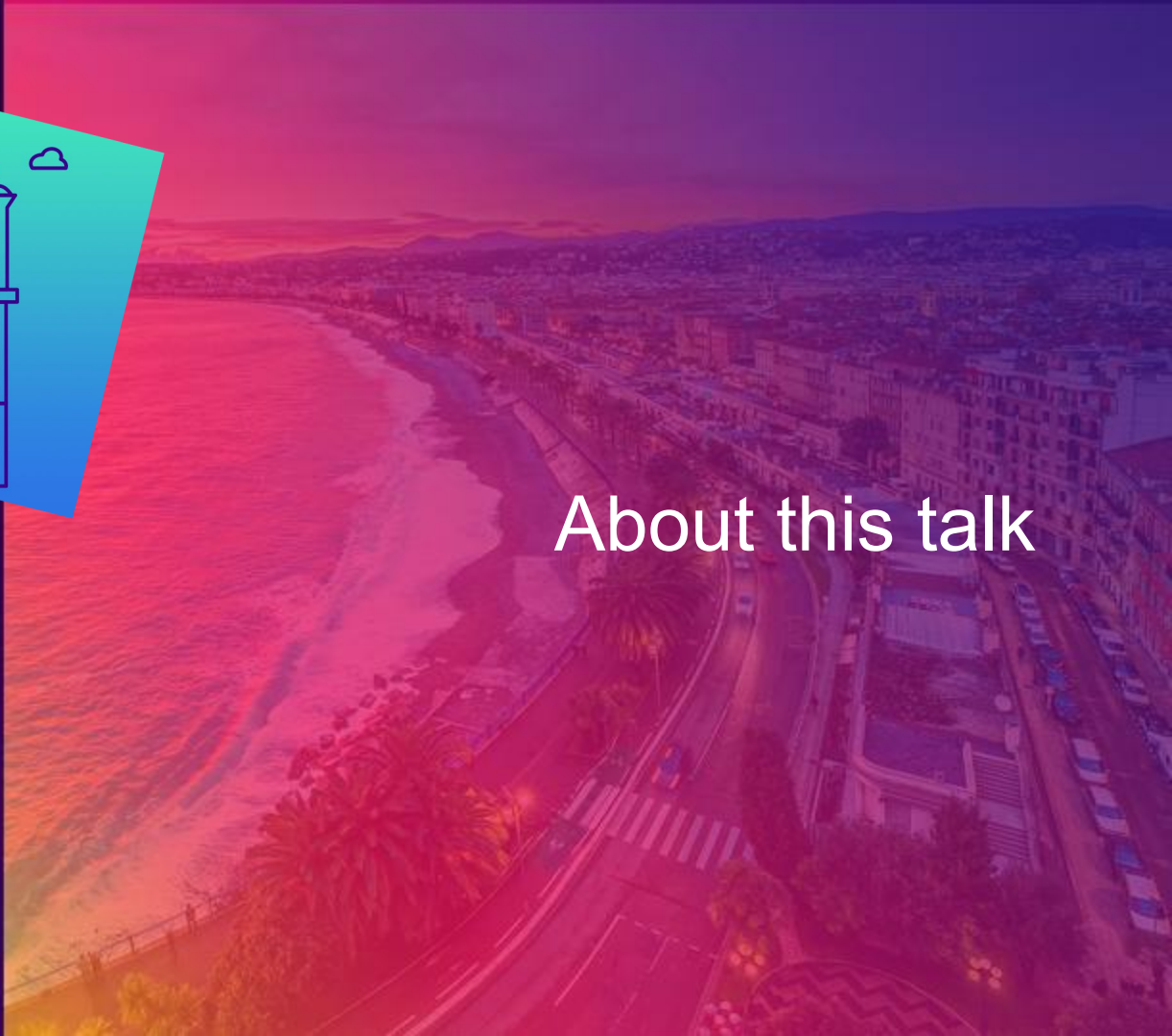




Speed up your
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About this talk





About Thorsten

CV milestones

- Senior Software Engineer at CloudBees, Iberia
- ASF Member (Cocoon, Forrest, Lenya)
- Jenkins and BlueOcean core contributor
- 15+ years full-stack development
- 5+ years front end focused
- Github: scherler



Welcome to Jenkins!

Sign in

☐

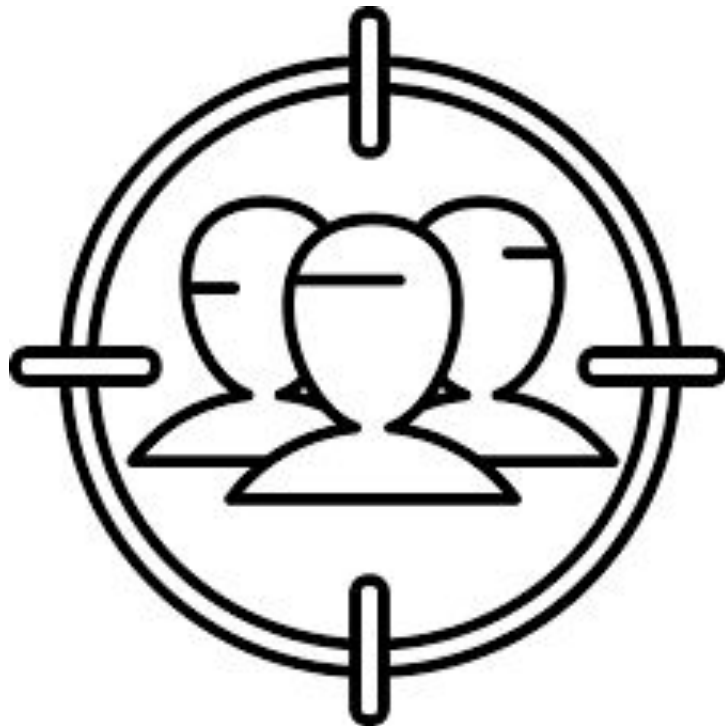
Keep me signed in



Target Audience

Am I right in this session?

- Developers
 - JavaScript
 - HTML & CSS
 - Node
- Project Manager
- Designers





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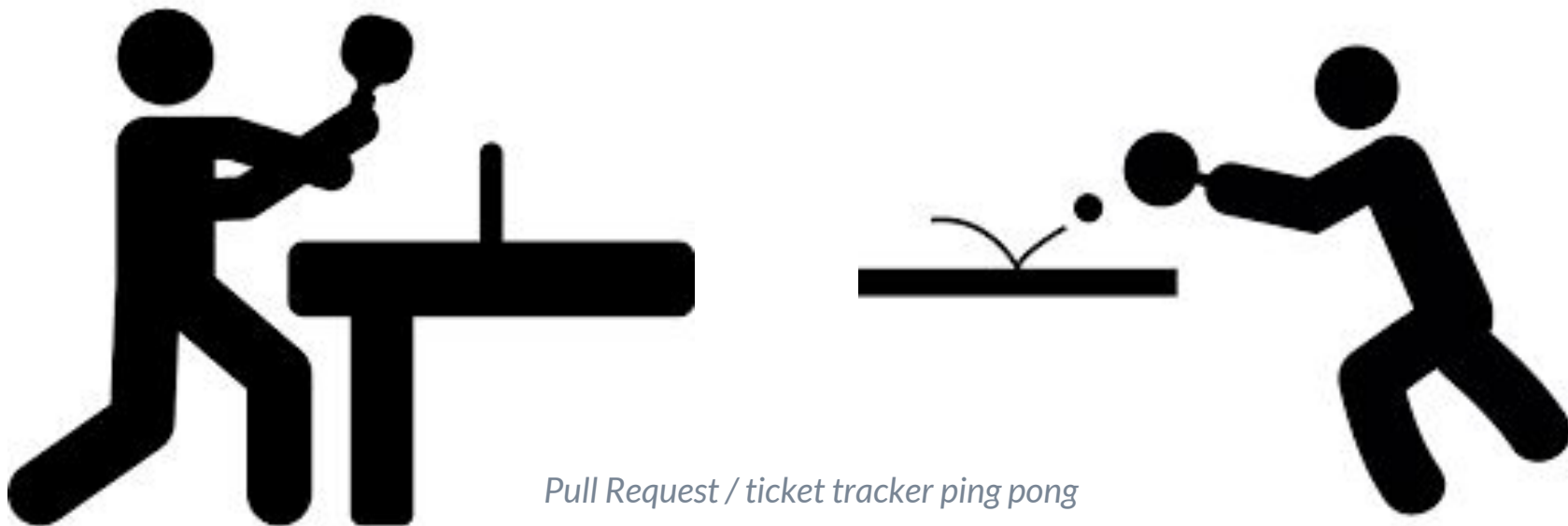
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The Problem



The usual validation process

Between designer & developer



Pull Request / ticket tracker ping pong



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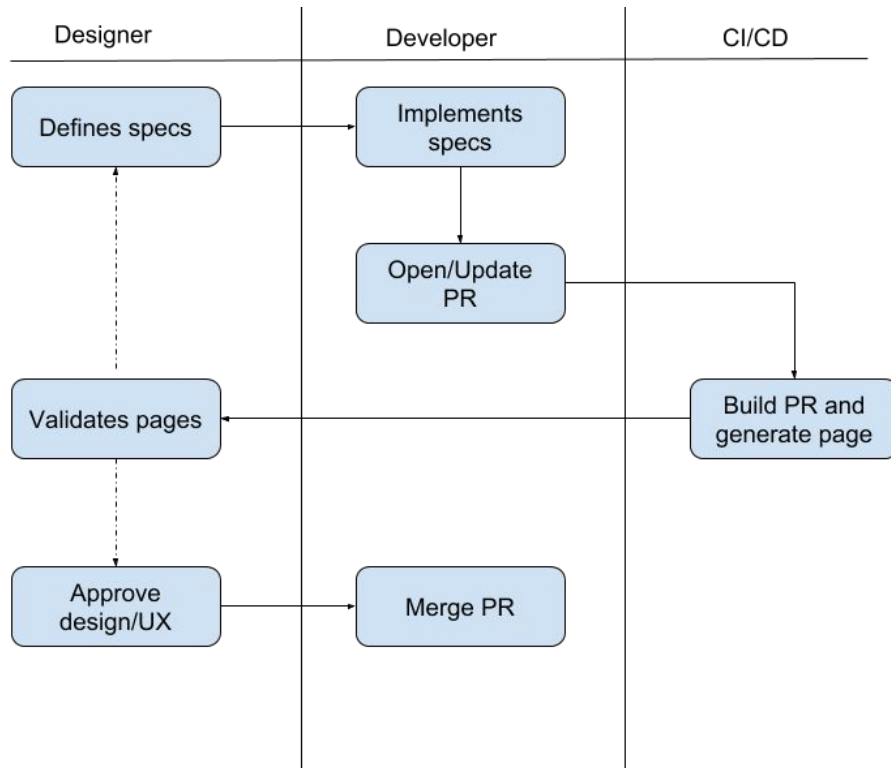
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Solution



A better validation process?

Let CI/CD help you reduce time spend on validation





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Overview



What are we going to use?

...and why?

- TechStack
 - Jenkins
 - React
 - ReactStoryBook
 - JenkinsX





Create your own with Jenkins

Like I did in earlier project.

- How to change your code?
- How to configure Jenkins?
- Demo
 - How it looks like in ReactStoryBook?
 - How in Jenkins?





Put the X into Jenkins

Why not use preview environments for your app?

- Cloudbees Core based on JenkinsX
- Demo



CloudBees
Core





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What and Why?



Jenkins

Open source automation server

Jenkins is a self-contained, open source automation server which can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

Jenkins can be installed through native system packages, Docker, or even run standalone by any machine with a Java Runtime Environment (JRE) installed.





Jenkins X

Native CI/CD for Kubernetes

Jenkins X has the concepts of Apps and Environments built in.

Jenkins is embedded as a pipeline engine as part of the installation for a team.

Jenkins X does not aim to replace Jenkins, but builds on it with best of breed open source tools.





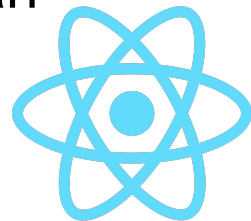
React

A JavaScript library for building user interfaces

Just the UI - “the V in MVC”, React makes no assumptions about the rest of your technology stack

Virtual DOM - React abstracts away the DOM from you, giving a simpler programming model and better performance.

Data Flow - React implements one-way reactive data flow which reduces boilerplate and is easier to reason about than traditional data binding.





React StoryBook

The UI development environment you'll ♥ to use

Storybook is a development environment for UI components.

It allows you to

- browse a component library,
- view the different states of each component
- interactively develop and test components.





React StoryBook

...with addons

To demonstrate and simulate quickly different use-cases of our components.

Implement unit testing and cover the acceptance criteria with those tests.





React StoryBook

The UI development environment you'll ♥ to use



UI Component Development



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Create your own



Example Code

...see the changes in PR-4

<https://github.com/scherler/jw17boseed>

Branches

- master
- devoxx

GitHub





Example Code

...how to run

StoryBook

- `npm install`
- `npm run storybook`





See site in jenkins

...configure security

Render within the same CI/CD server

-Dhudson.model.DirectoryBrowserSupport.CSP="sandbox allow-same-origin allow-scripts;"





StoryBook

...of our demo

← → ↺ 🏠

📘 localhost:9001/?selectedKind=Hello World&selectedStory=say hello to unit testing in storybook

REACT STORYBOOK ⌘

Filter

Hello World

say hello to unit testing in storybook

📖

Vélocité

Hello

SPECIFICATIONS

✓ renders div saying hello

✓ renders our logo component



CI/CD Server

...will show

localhost:8080/jenkins/job/devoxx.ma/job/PR-4/6/artifact/target/website-build/

Jenkins

Jenkins > devoxx.ma > PR-4 > #6

- Back to Project
- Status
- Changes
- Console Output
- Edit Build Information
- Delete Build
- Git Build Data
- No Tags
- Git Build Data
- Open Blue Ocean
- Replay
- Pipeline Steps
- Previous Build

Artifacts of PR-4 #6

target / website-build /

- classes
- css
- fonts
- icons
- javadoc-bundle-options
- jest-coverage
- jest-reports
- js-bundle-src
- maven-status/maven-compiler-plugin/compile/default-compile
- SpeedAndCustom
- static
- test-classes
- website-build
- favicon.ico 7.10 KB [view](#)
- iframe.html 1.41 KB [view](#)
- index.html 1.22 KB [view](#)
- jenkins-js-extension.jsx 716 B [view](#)
- SpeedAndCustom.hpi 3.42 MB [view](#)
- SpeedAndCustom.jar 32.35 KB [view](#)

(all files in zip)



CI/CD Server

...will show



localhost:8080/jenkins/job/devoxx.ma/job/PR-4/7/artifact/target/website-build/index.html?sele



REACT STORYBOOK



Filter



Vélocité

Hello

Hello World

say hello to unit testing in
storybook

SPECIFICATIONS

- ✓ renders div saying hello
- ✓ renders our logo component




CloudBees Core

Flexible, governed continuous delivery starts here





CloudBees Core


Front end needs to be adopted from




Teams > JX > Environments









PULL REQUESTS

core-frontend #438

1 pod

View App

core-frontend #439

1 pod

View App

core-frontend #440

STAGING

demo130

1 pod 0.0.8 Promote

demo131

1 pod 0.0.3 Promote

demo138

PRODUCTION






demo130

1 pod 0.0.8



CloudBees Core

2 month



Environments

Development

core

1 pod

#438

Preview

core

1 pod

#439

Preview

Staging

demo130

1 pod

0.0.8

Promote

demo131

1 pod

0.0.3

Promote

Production

demo130

1 pod

0.0.8



CloudBees CodeShip

Ship faster with CI/CD as a Service



Shipyard Styleguide

CloudBees CodeShip has the Design we wanted

- Common Corporate Identity
- Fresh Look 'n Feel

...but

- functional CSS
- helper classes





Solution



StoryBook

CloudBees React-Shipyard

Secondary

Link

▼ Heading

Default

▼ List

Default

2 items per row

▼ Menu

Open

Mutiple

► Modal

▼ Navigation

collapsed

open

▼ Sidebar

open on right

open on left

► Tabs

▼ Table

With data

Expanded

▼ Tooltip

Up

Bottom

Show Settings

Social

Bitbucket

Github

Gitlab

Show Info

TESTS ACTION LOGGER

PASSED Menu

4 passed 4 total 2283ms

Menu should be able to render in open state

Menu should be able trigger actions with keys

Menu should close menu with ESC on trigger

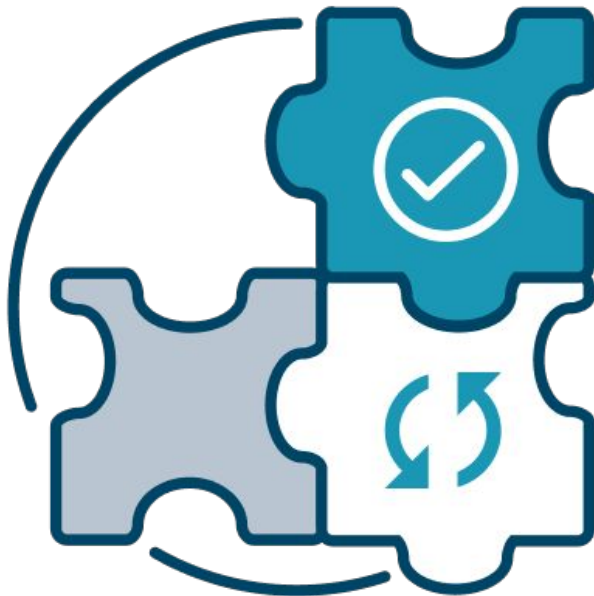
Menu should close menu with ESC on any item



Other Enhancements

Software at the speed of ideas

- Typescript
- Monorepo
- Hooks





¿Questions?





Thank you! Merci beaucoup!



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