

Continuous Delivery Workflow with Gerrit



Introductions



Other stuff I do:

- Lead developer
- Git specialist
- Code reviewer
- OSGi guy
- Kanban evangelist
- Walking Javadoc for WTP

Piotr Tomiak
Product Architect
MyEclipse

- Traveler
- Scuba Diver

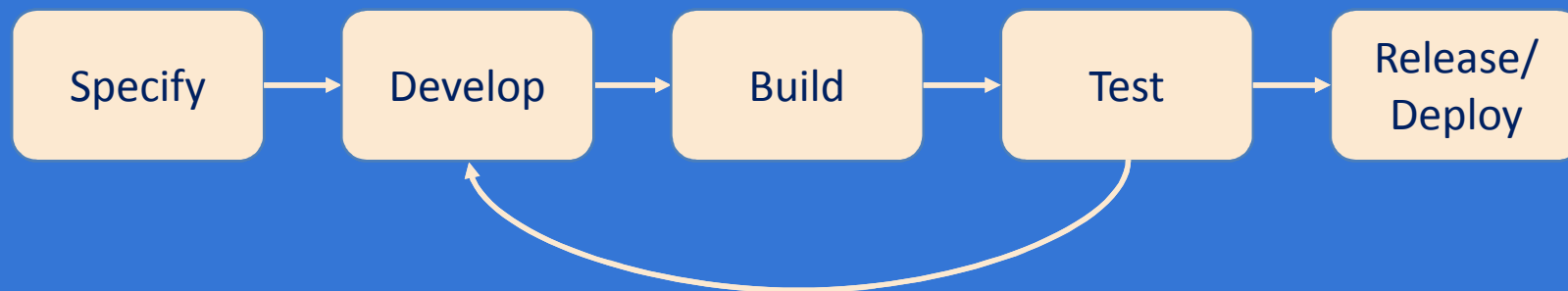
Let's dive in!

Continuous Delivery



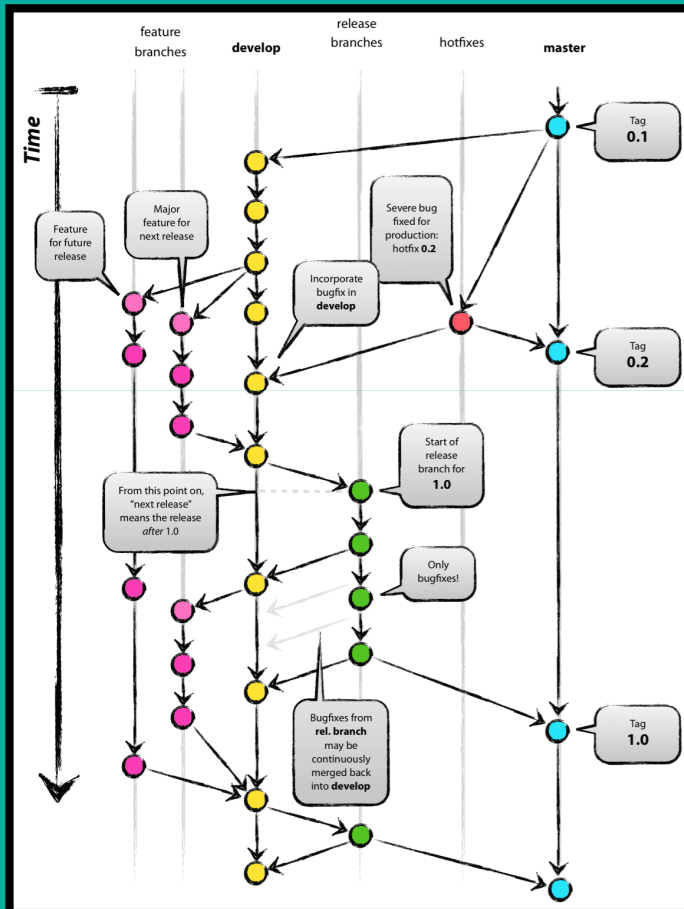
- Customers get new features or bugfixes as soon as they are finished
- Frequent releases
- Less pressure on the release

Feature Lifecycle in Continuous Delivery



Continuous Delivery and Git

Git Branching Model



A successful Git branching model

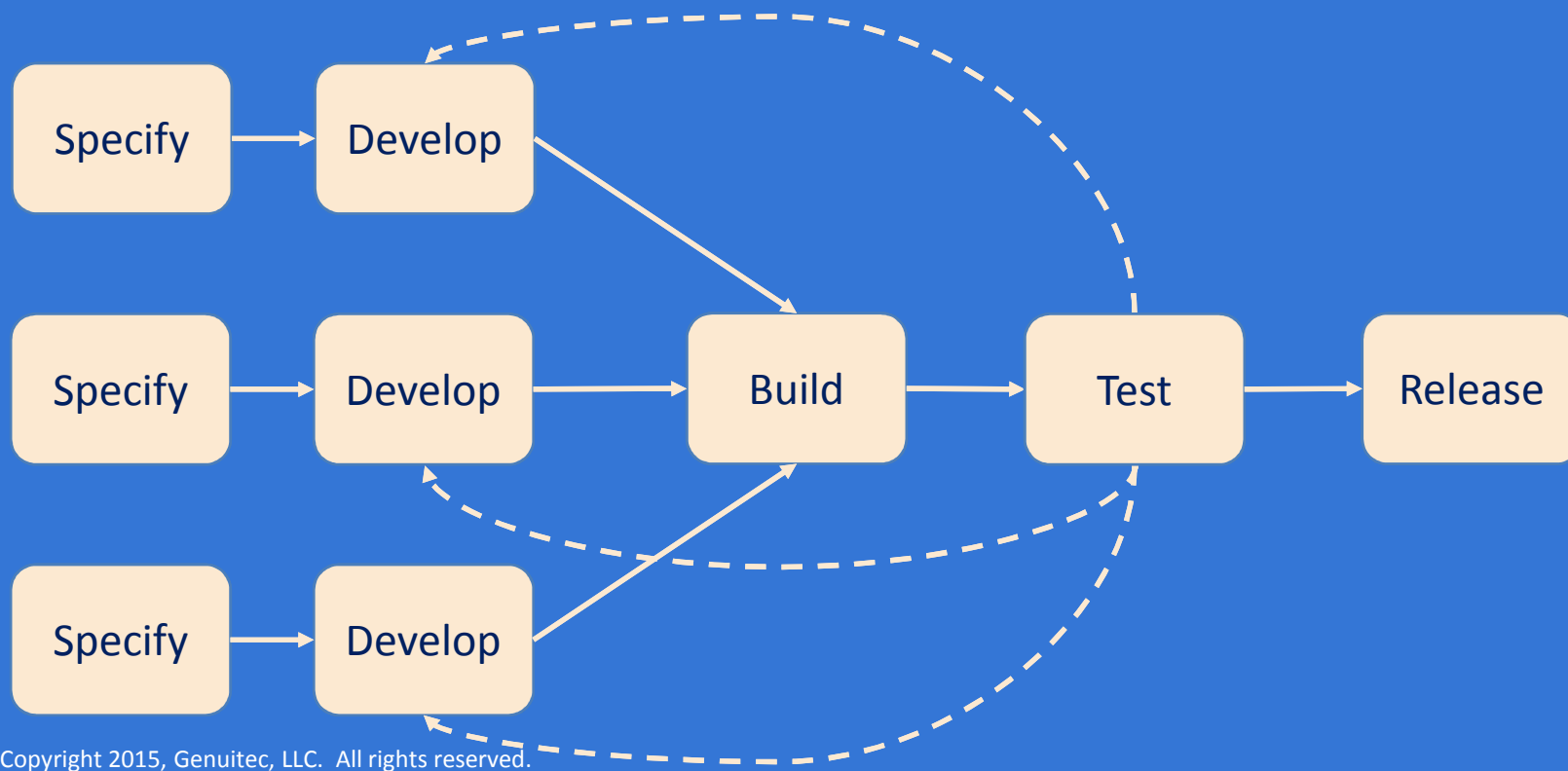
by Vincent Driessen

<http://nvie.com/posts/a-successful-git-branching-model/>

Git Branching Model



Feature Lifecycle on develop branch in Git Branching Model

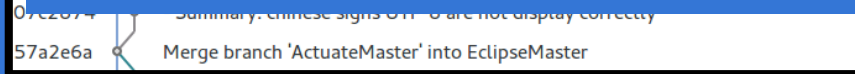


Test before merge!

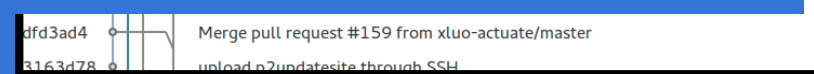
Pull Requests



- Code review
- Separate build and test for each pull request before merge
- Iterative improvement of code by adding new commits
- It's fit for Continuous Delivery process



Merges for single commit, useless commits



Branching mess

Merge vs (rebase + amend)



Rebase approach is better:

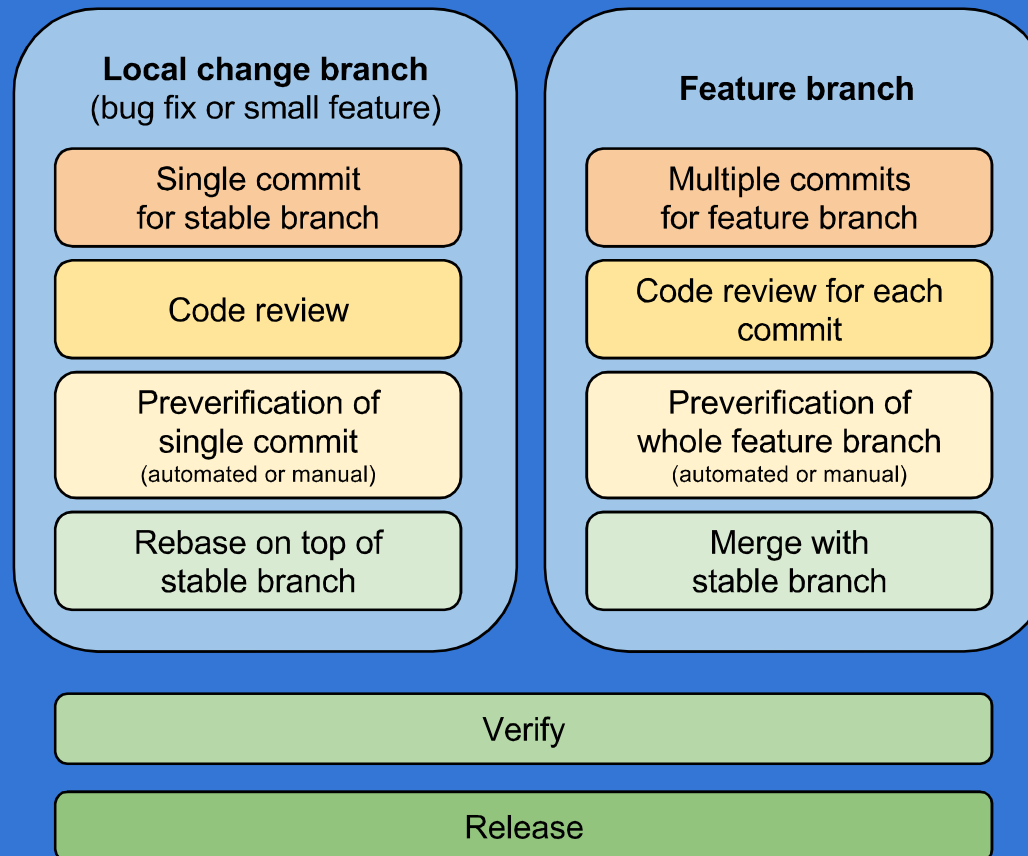
- History contains only quality commits
- Linear history
- Single commits easy to revert
- Merges only for feature branches
- Unimportant information is lost

Gerrit + rebase

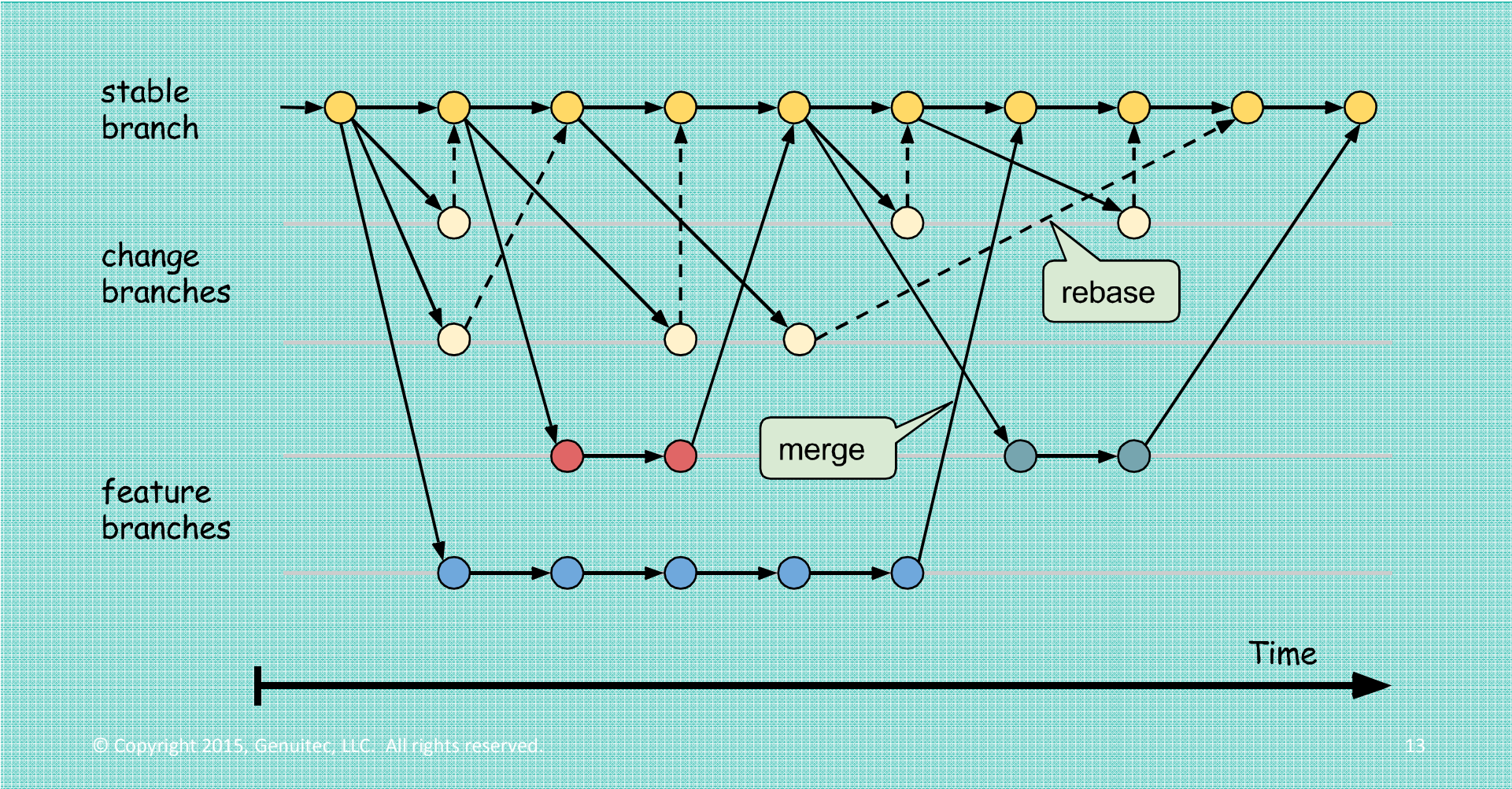


- Code review
- Separate build and test for each change before merge
- Iterative improvement of code by amending commits
- Incoming changes easy to manage
- It's fit for Continuous Delivery process

Gerrit Workflow



Gerrit Workflow - branching

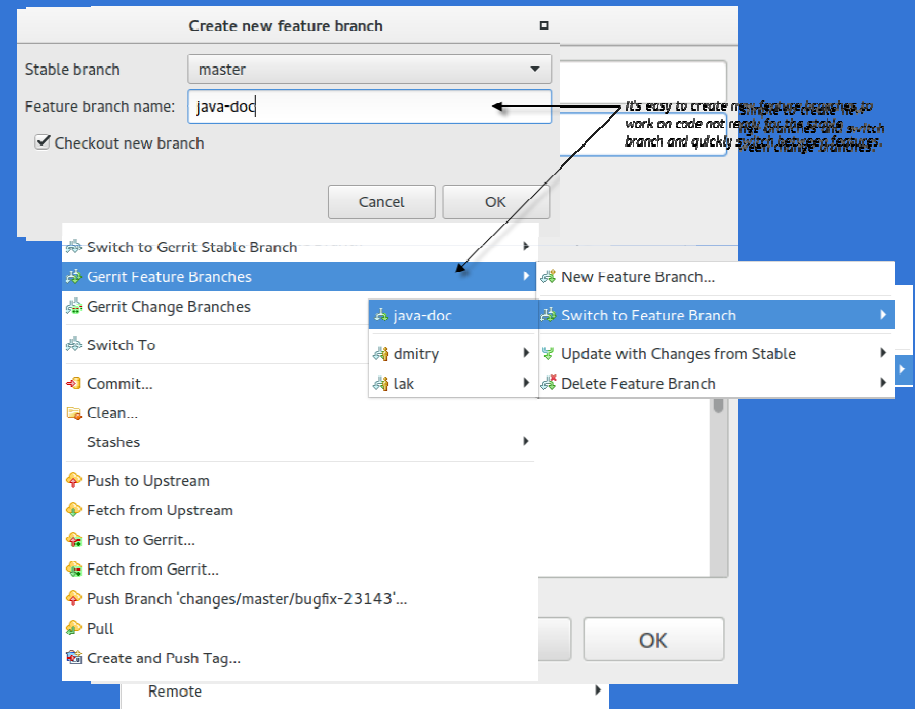


Who likes working on feature branches with Gerrit?

Gerrit Workflow for Eclipse



- Easy management of feature branches
- Covers Gerrit Workflow
- Improved Fetch from Gerrit
- Additional utilities



Tools in action



Good news!
Free and open source!

Build, test, release!

Build



- Regular builds (from stable branch):

- Maven
- Hudson
- Secure Delivery Center



1 hour



- Delta builds for quick testing iterations:

- Custom Eclipse plugin based on PDE
- Only modified plugins re-exported
- Installable to Regular build as a feature update
- SDC package



5 minutes

Test



- JUnit tests
- QF Tests
- Test Link for test cases
(just migrated from Testopia)
- Manual QA verification and tests

Release



- MyEclipse:
 - distributed as SDC pack and a package
 - updates pushed to users
- Webclipse:
 - Eclipse marketplace
 - Evergreen updates

What's next?

Install



Gerrit Workflow for Eclipse can be installed from marketplace:

- Standalone
- With Webclipse
- With MyEclipse

Check Gerrit Workflow for Eclipse
and Webclipse
out at Genuitec booth!

Question?

Thank you!

- Meet our Sales Manager Emanuel Darlea
- [Emanuel@genuitec.com]
- Checkout marketplace for Gerrit Workflow for Eclipse



Genuitec

The Cloud Control Company