

# Automating (almost) everything using Git, Gerrit, Hudson and Mylyn lasktop

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#### **Audience Participation Time!**

- Who has used:
  - Git
  - $\circ$  Gerrit
  - Hudson (not Jenkins)
  - $\odot$  Jenkins
  - $\circ$  Eclipse
  - Mylyn



#### Ingredients

- ⊖ Git
- **Gerrit**
- **O Hudson (or Jenkins)**
- Mylyn
- EGit
- Mylyn Builds connector (Hudson)
- Mylyn Reviews connector (Gerrit)



#### Why Git?

Distributed Version Control System (DVCS)
Open Source
Airplane-friendly
Push and pull
Branching and merging



#### Why Hudkins?

Continuous Integration
Open Source
Large community
Lots of plugins

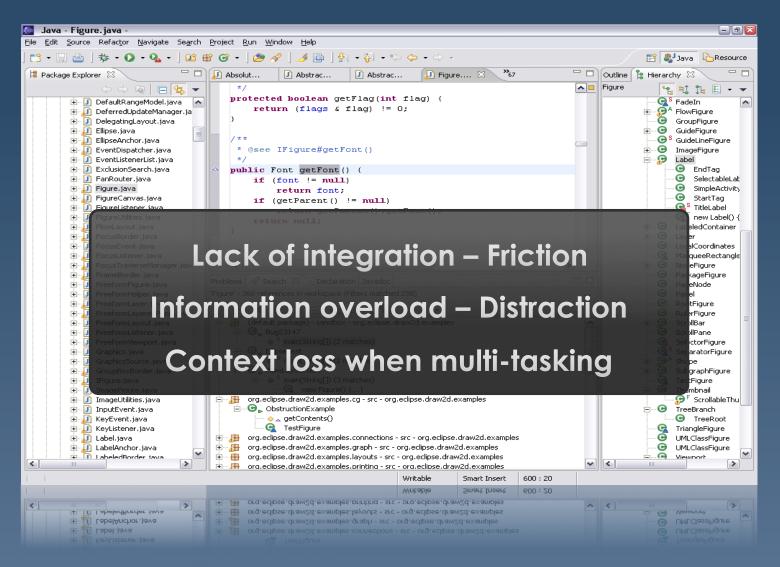


#### Why Gerrit?

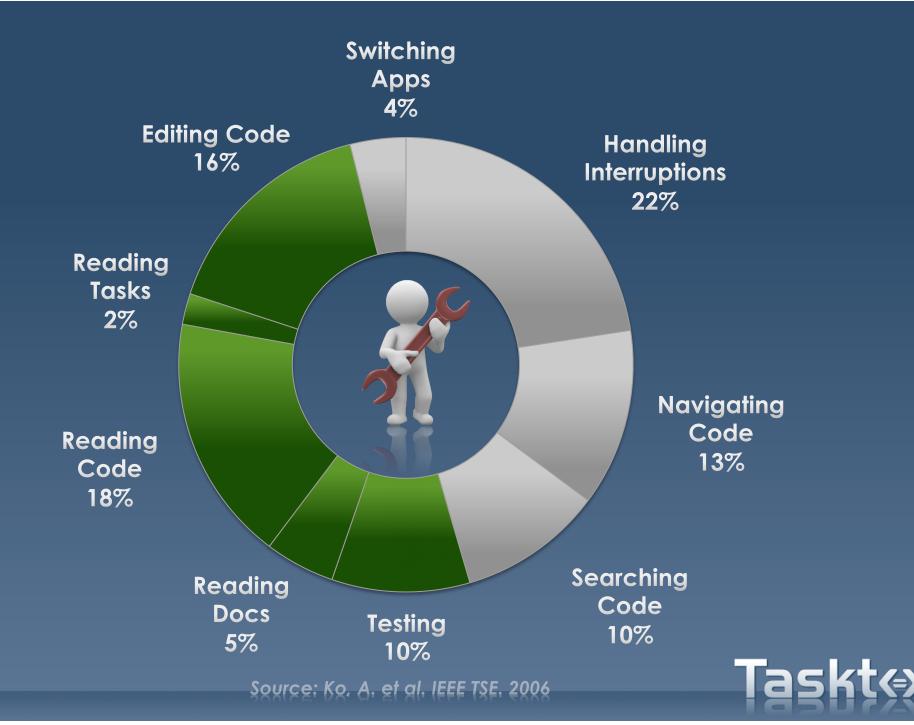
Code reviews for Git
Open Source
Workflow
Access control



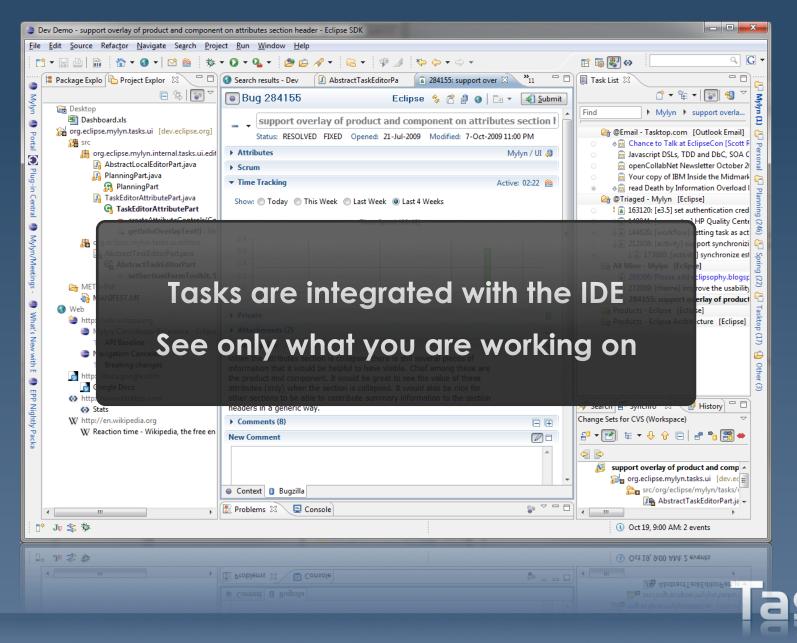




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#### **Task-Focused Interface**

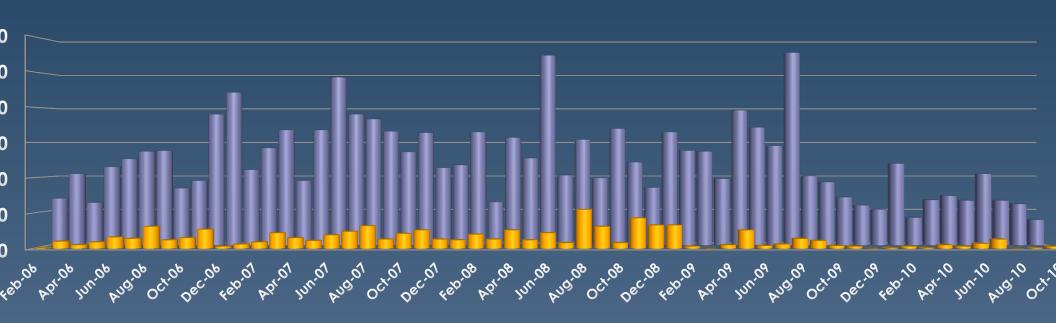




#### **Over 60 ALM Tools Supported**



#### Why integrate these tools?

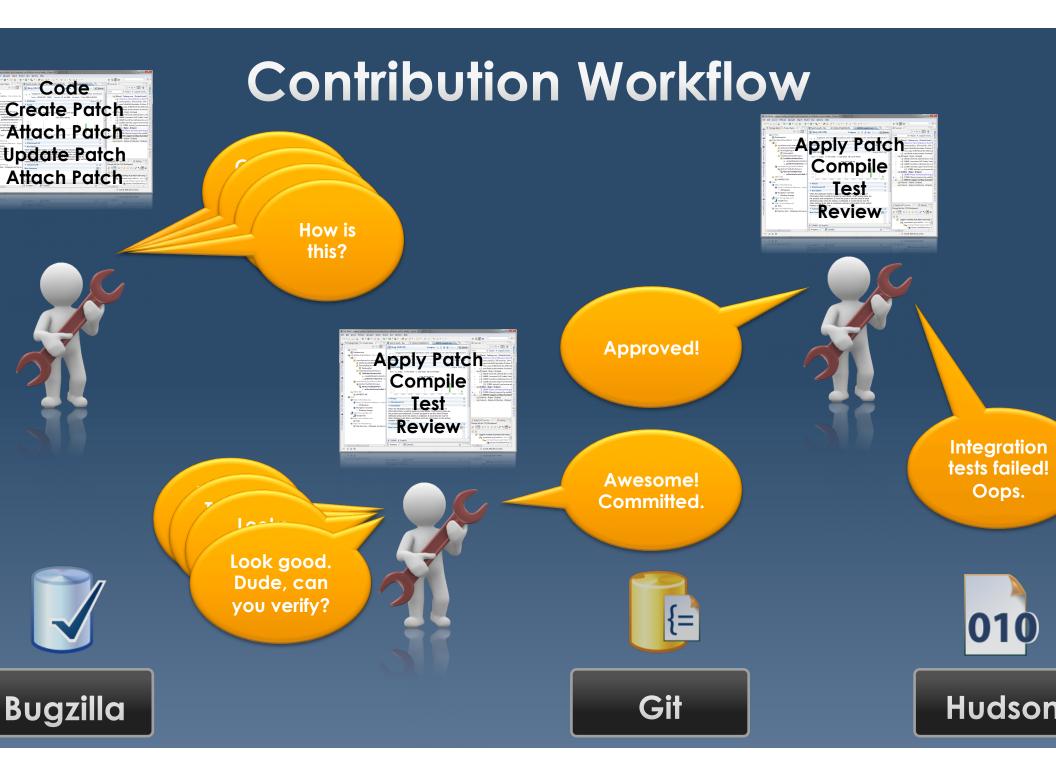


#### Mylyn Bugzilla

# Patches Applied Resolved

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Source: Eclipse.org



#### Patch based Code Reviews







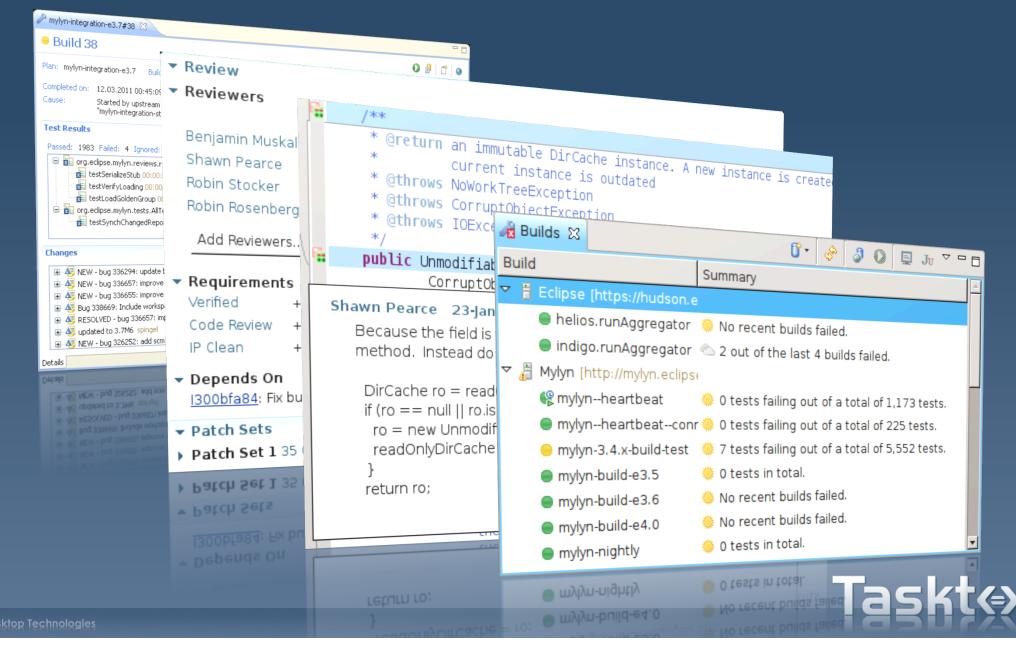


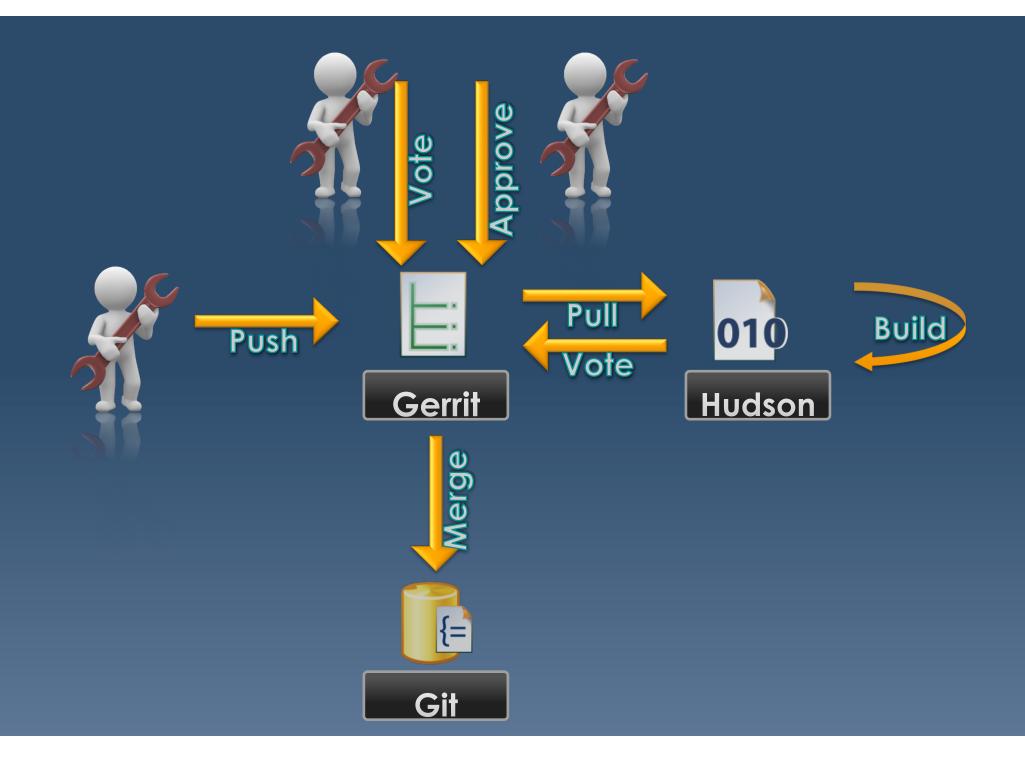


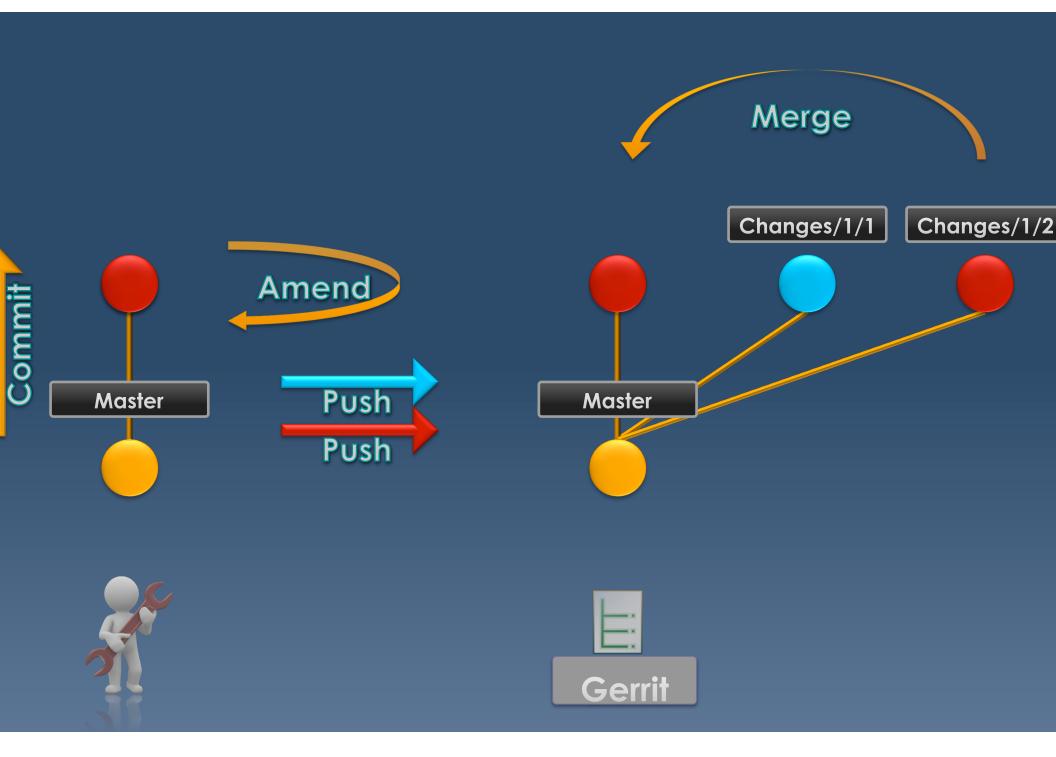




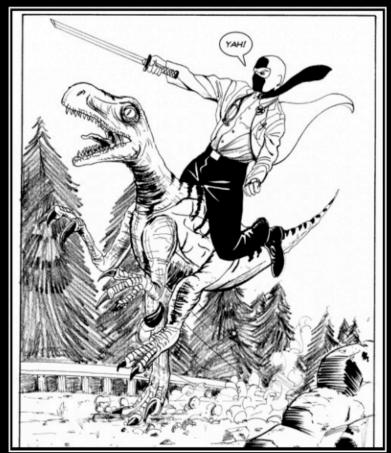
#### **Demo: Collaboration**







#### That was awesome! How do I do it at home?



## EPIC WIN

Because a Ninja/Cleric riding a dinosaur is the stuff great campaigns are made of.



#### Setting up the server

- $\odot$  Clone Git repository
- Initialize Gerrit
- Register and configure a Gerrit human user
- $\odot$  Register and configure Gerrit build user
- Install Hudkins Git and Gerrit plugins
- Configure standard Hudkins build
- Configure Hudkins Gerrit build



### Setting up the client (contributor)

- Install EGit, Mylyn Builds (Hudson), and Mylyn Reviews (Gerrit)
- Clone Git repository
- Configure Gerrit as remote master
- There is no step 4



### Setting up the client (committer)

Configure a Mylyn Builds Hudson repository
Configure a Mylyn Review Gerrit repository
Create a Task Query for Gerrit
I really hate step 4





# Questions?

#### References

- > <u>http://www.infoq.com/articles/Gerrit-jenkins-hudson</u>
- http://tasktop.com/blog/mylyn/contributing-to-mylyn-through-gerritcode-reviews
- http://tasktop.com/blog/eclipse/stage-build-review-with-git-gerrithudson-and-mylyn

