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- (1) Efficient Workflows
- (2) Code Quality
- (3) Security
- (4) Traceability

Efficient Workflows

Can we still fix a bug for the upcoming Release?

How do we do Hotfix for the current version?



Is the code for that

Feature complete?

Has everyone Reviewed

the code for this feature?

The perfect Git workflow

There are many

Design your own Workflows

Master (Trunk) based

master



Unfinished features in your trunk / master branch

Branch per issue

stable master branch

master

feature/IRKD-30

isolated feature work

Psaas Workflow

1 Atlassian Marketplace Workflow

Simplest Workflow

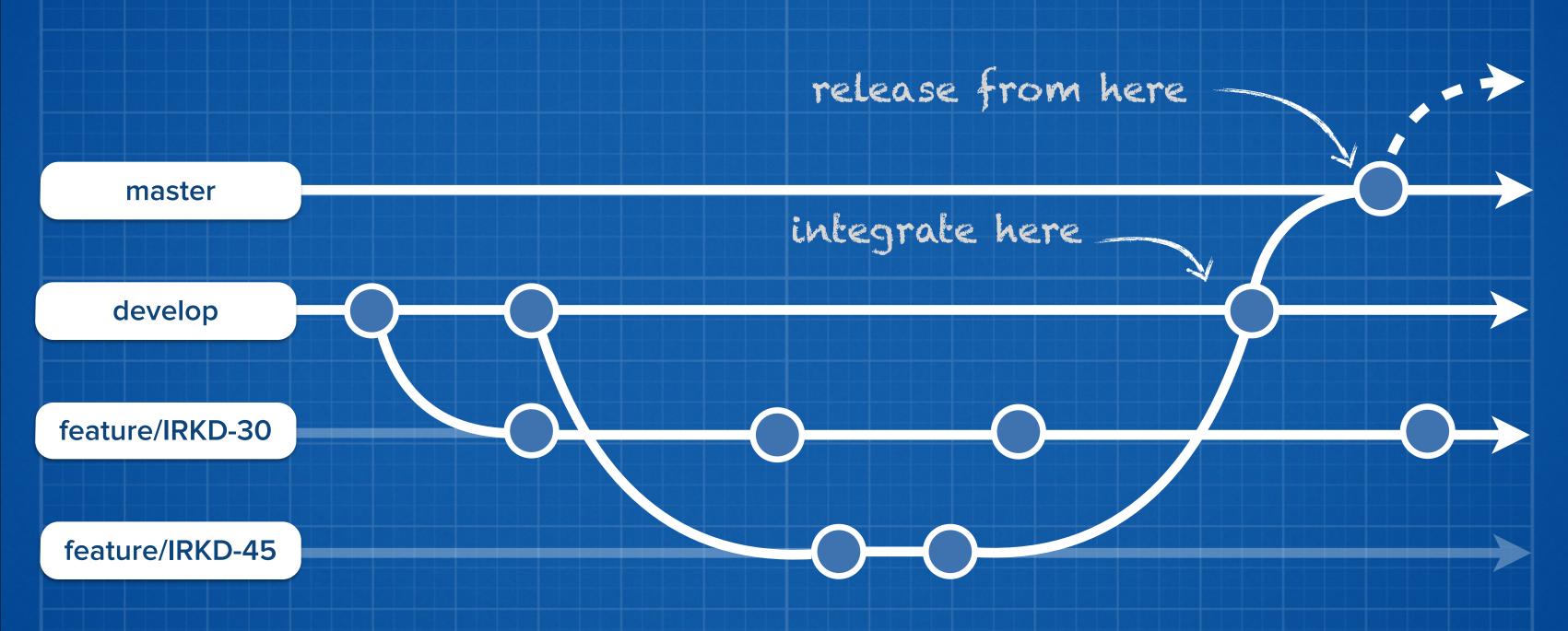


master

feature/IRKD-30

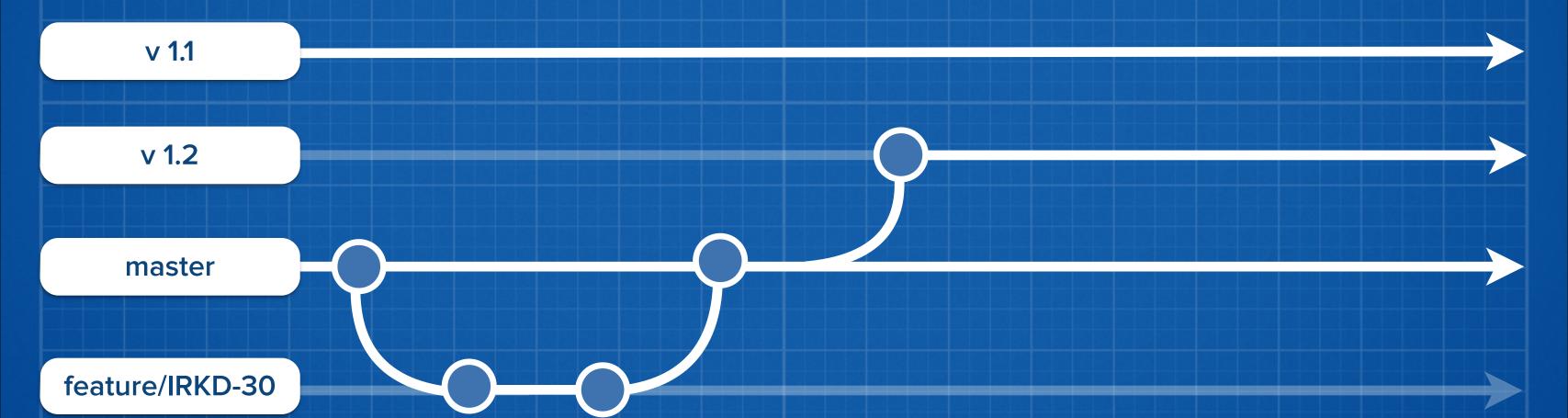
feature/IRKD-45

Integration Workflow



Installable software

2 Atlassian Stash Workflow



v 1.1

master

v 1.2

bugfix/IRKD-45

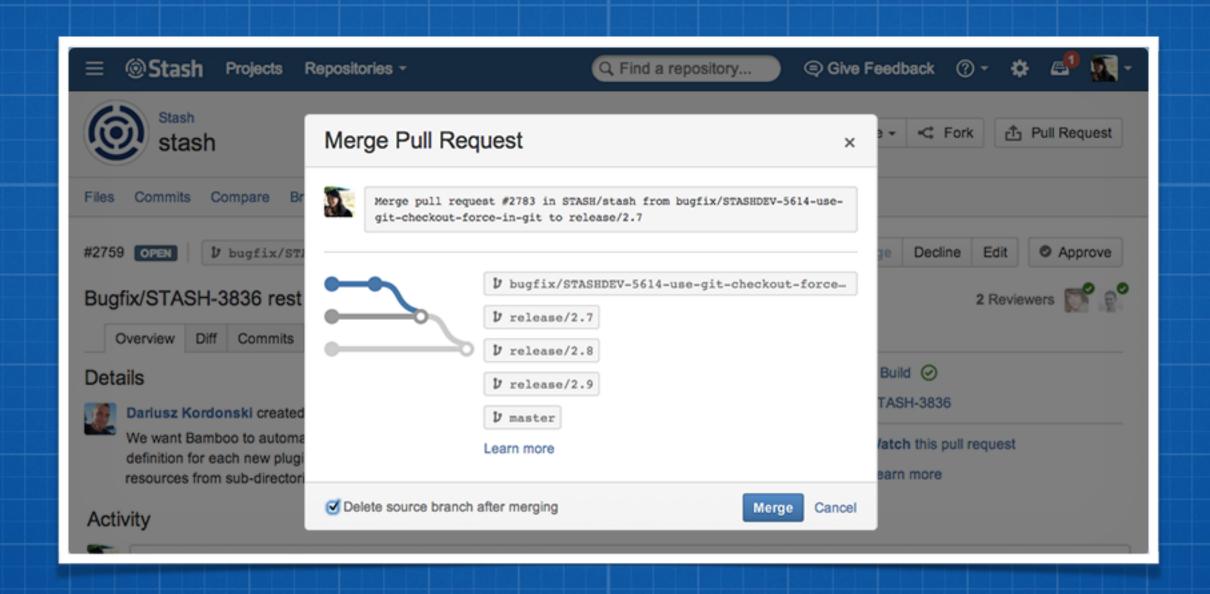
v 1.2

master

bugfix/IRKD-45 v 1.1 v 1.2 master boring work

Automatic merges

with Stash



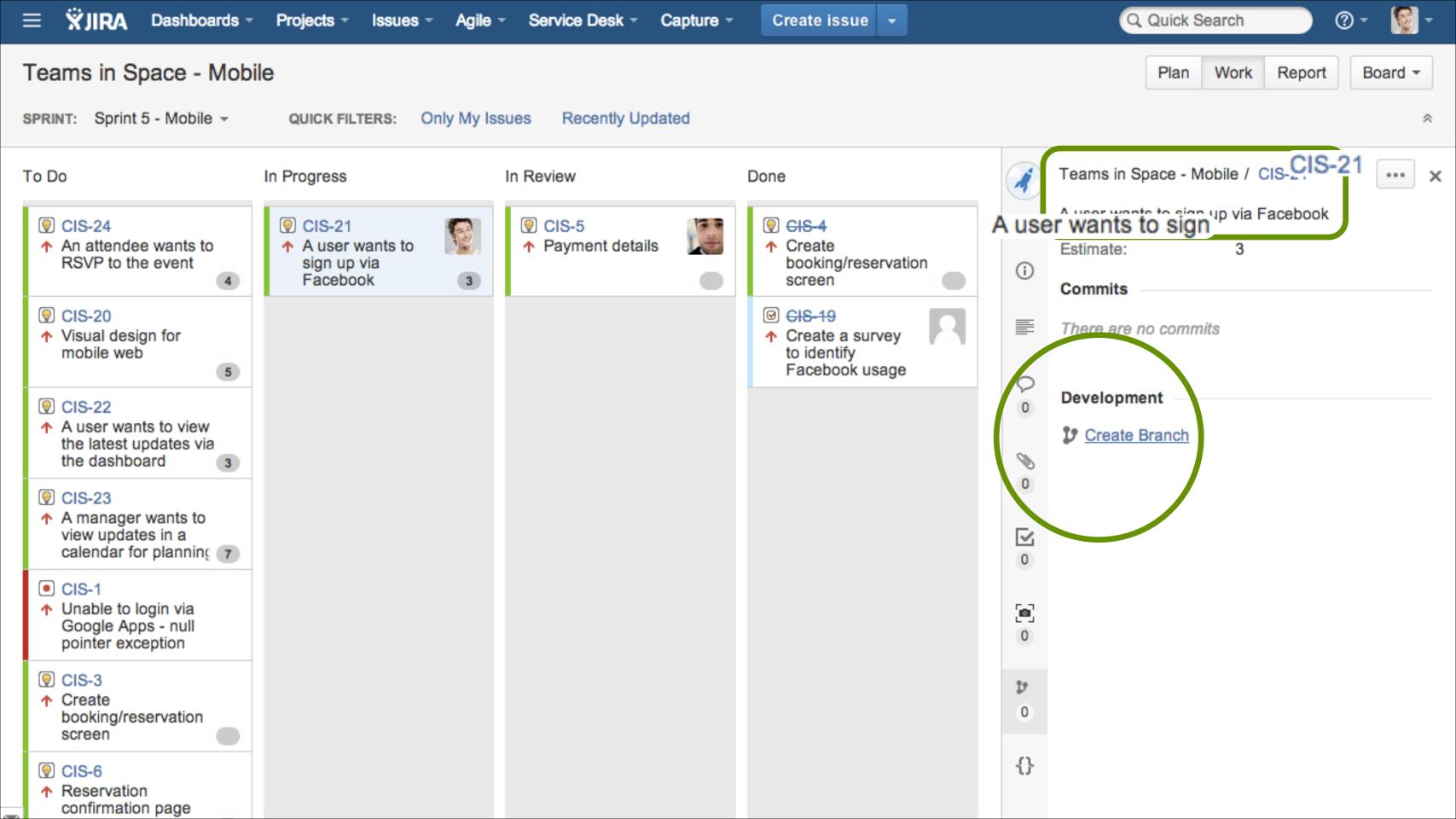
Branch per issue

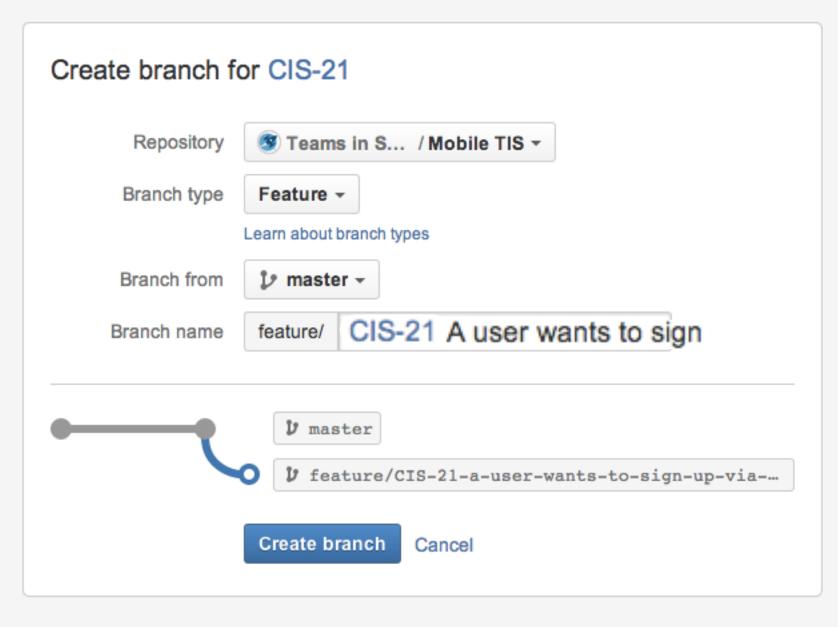
branch type

feature/IRKD-30

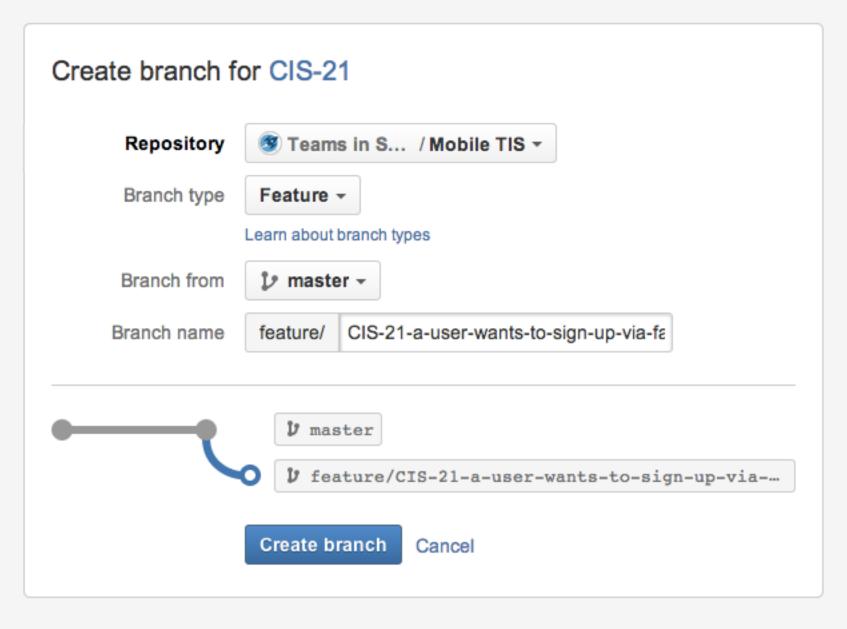
issue

project

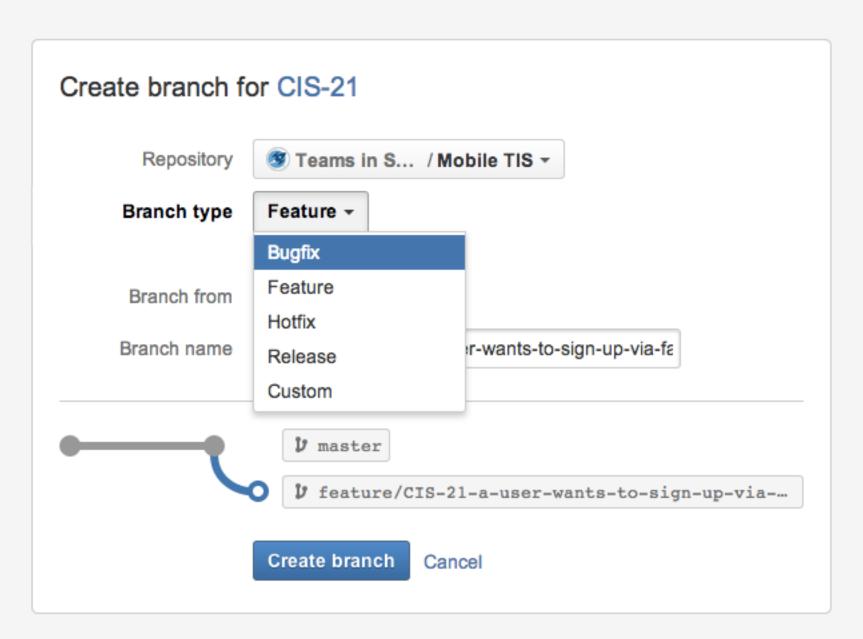




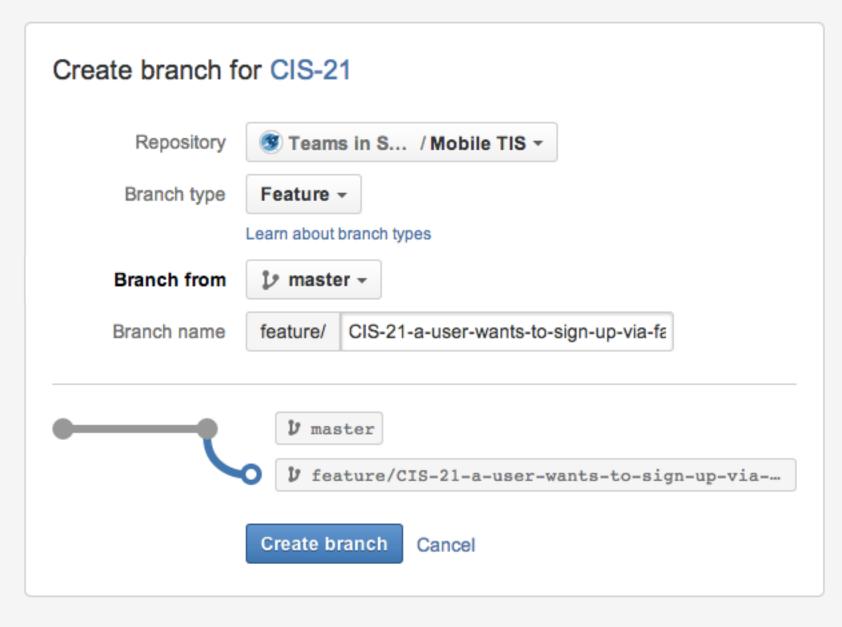




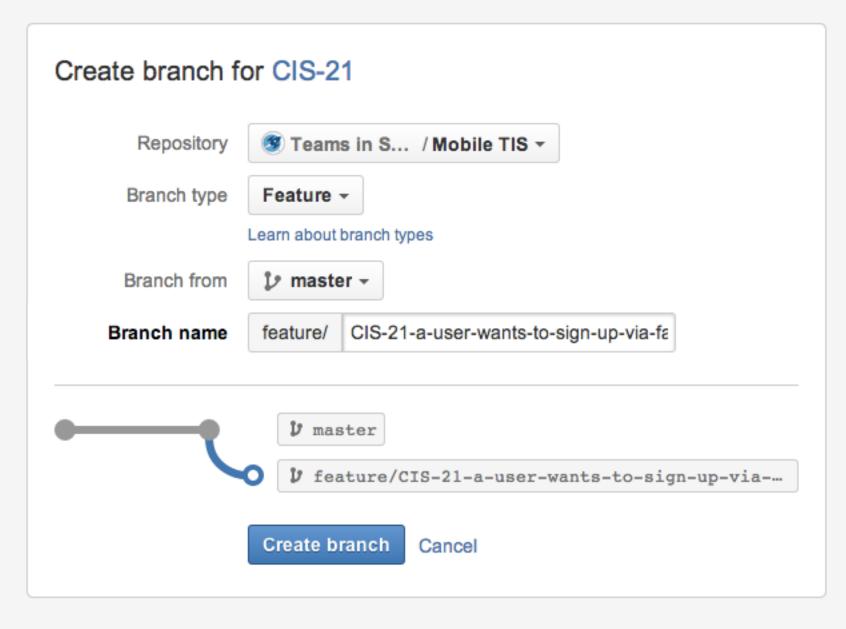




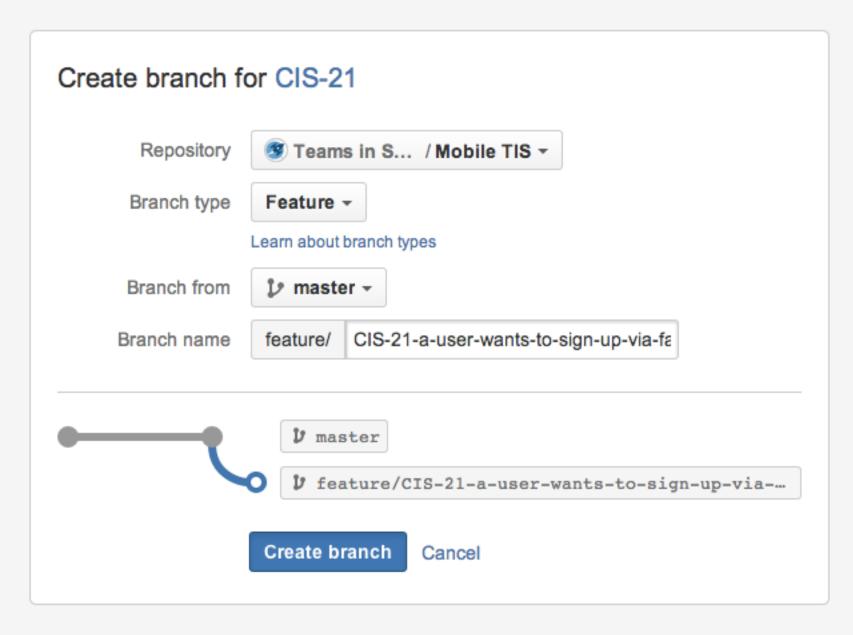
















Design your workflow

Good for

stable branches

less error prone

(011)

Code

transparency

better understanding

999

easier onboarding

Team

Code Quality

Better Quality

Find errors

Code Reviews

Learn

Code Reviews

part of your daily work

asynchronously

less painful

Code Reviews

Trunk

Code after changes are on trunk

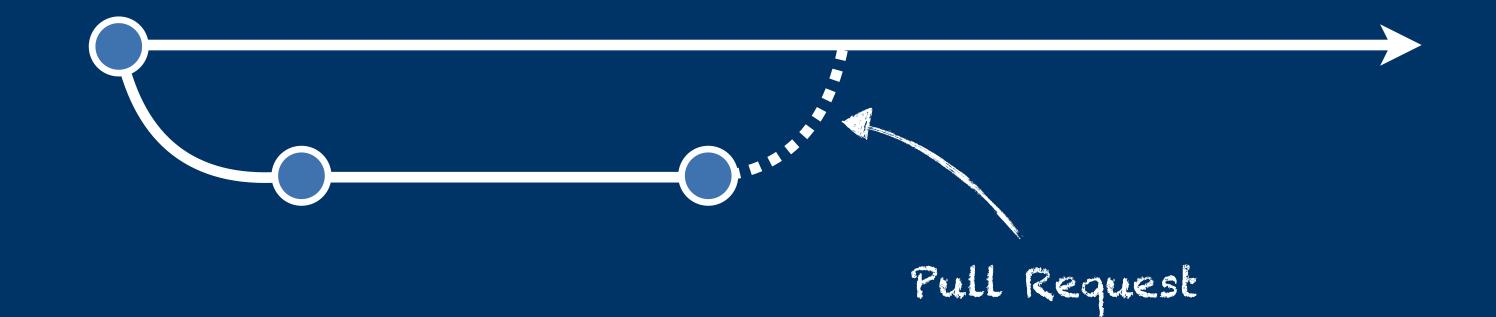
Pull Requests

part of your daily workflow

Part of your daily work

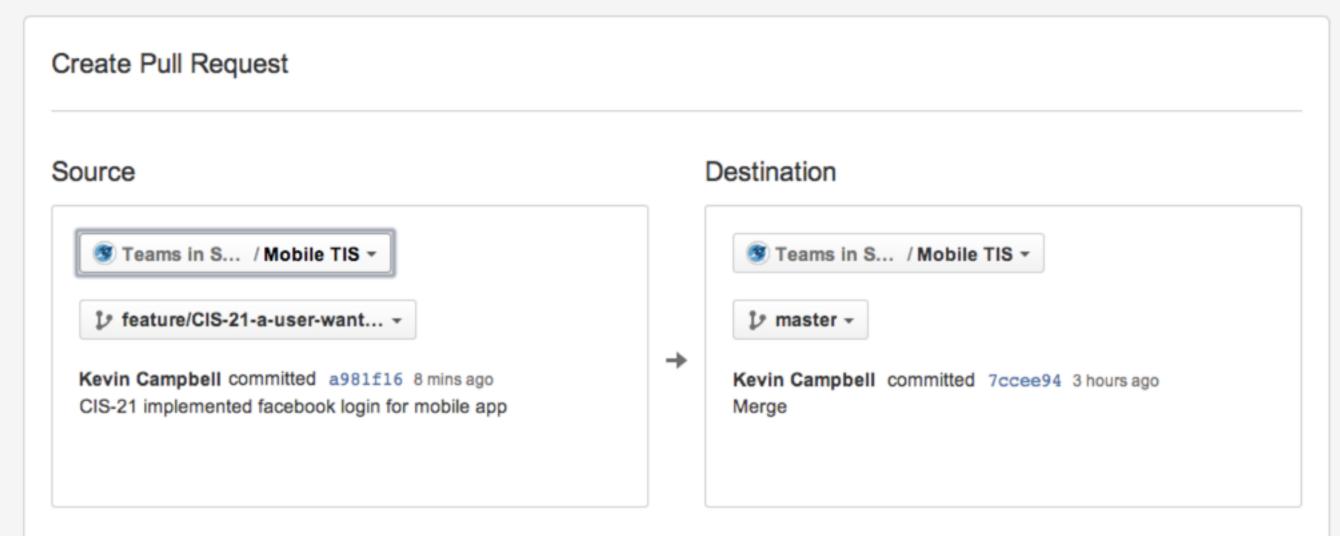


Part of your daily work

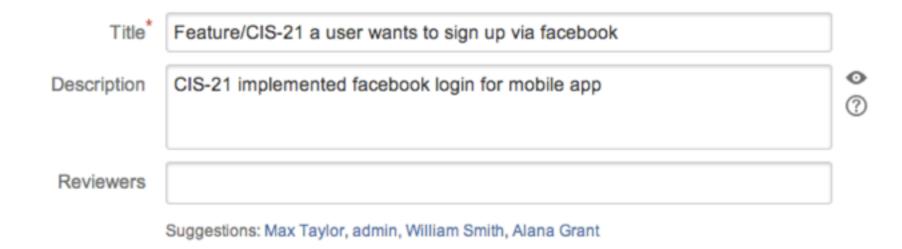


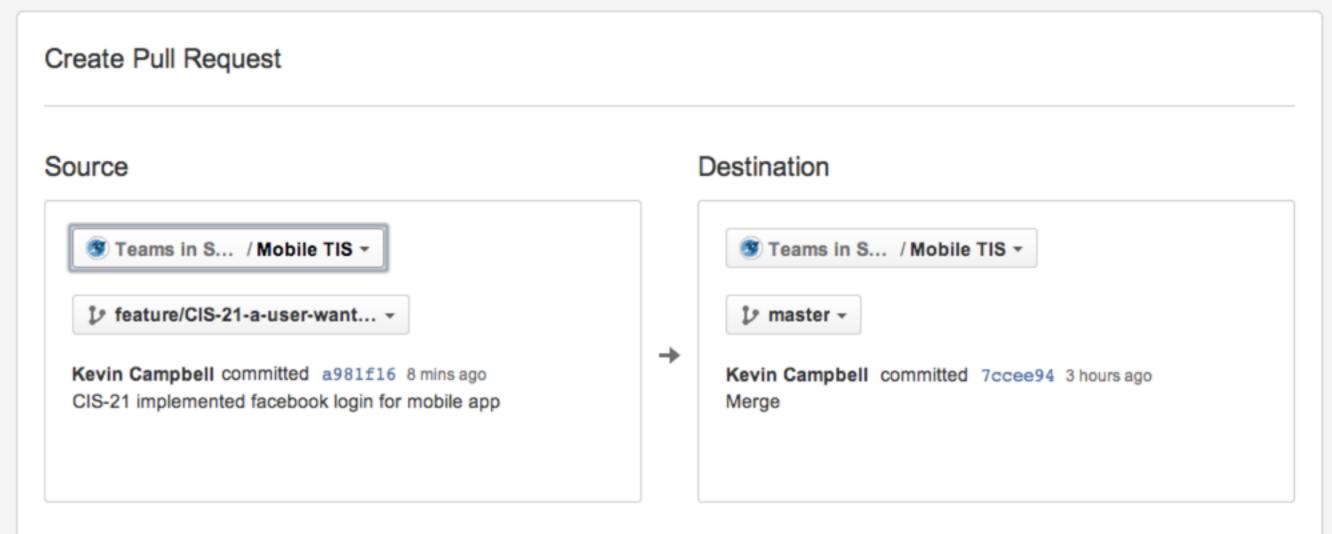
Part of your daily work



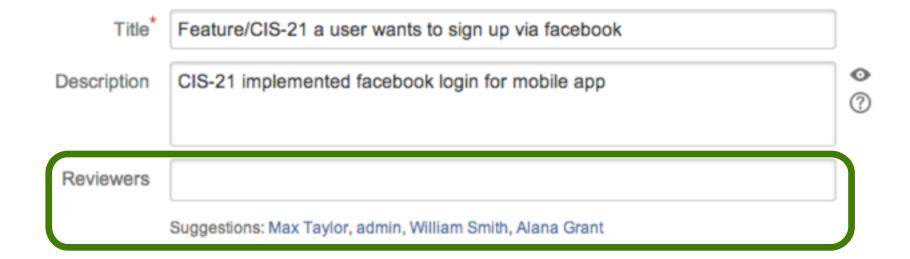


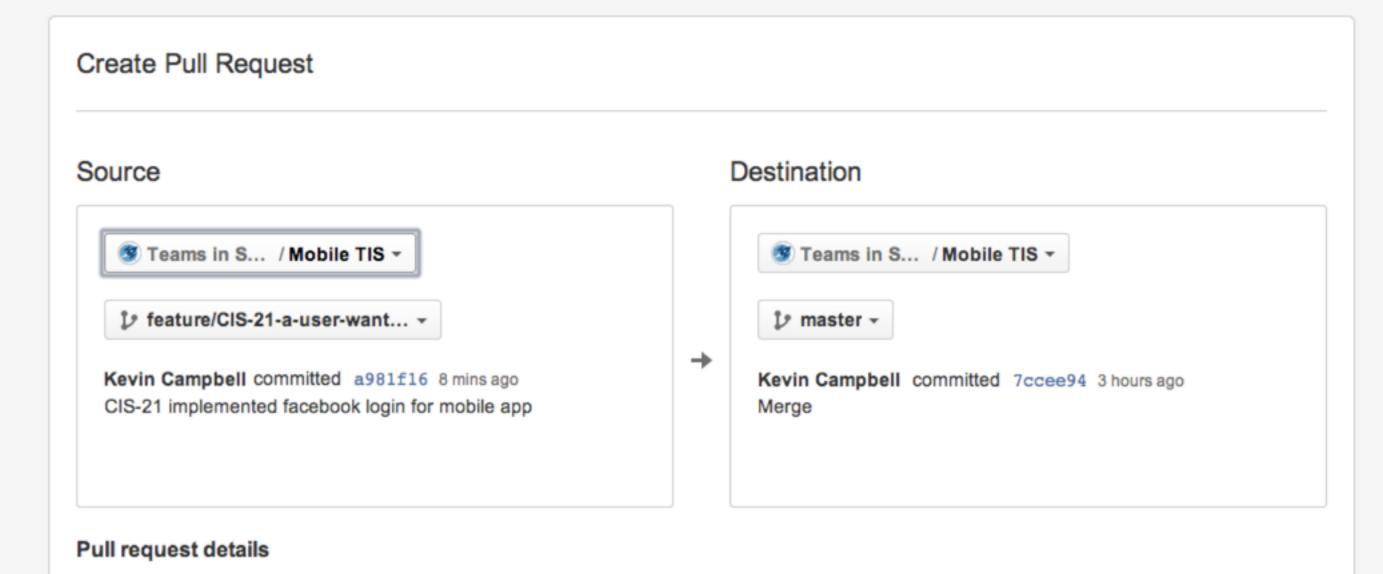
Pull request details

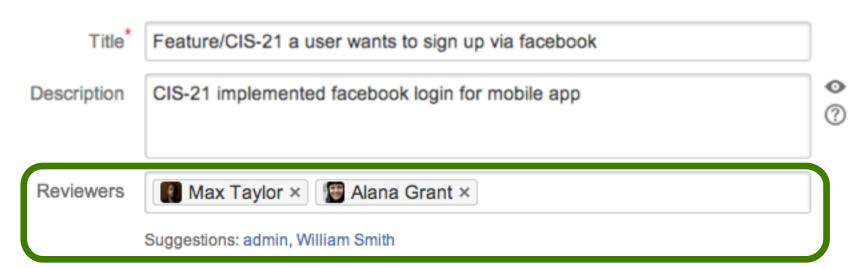




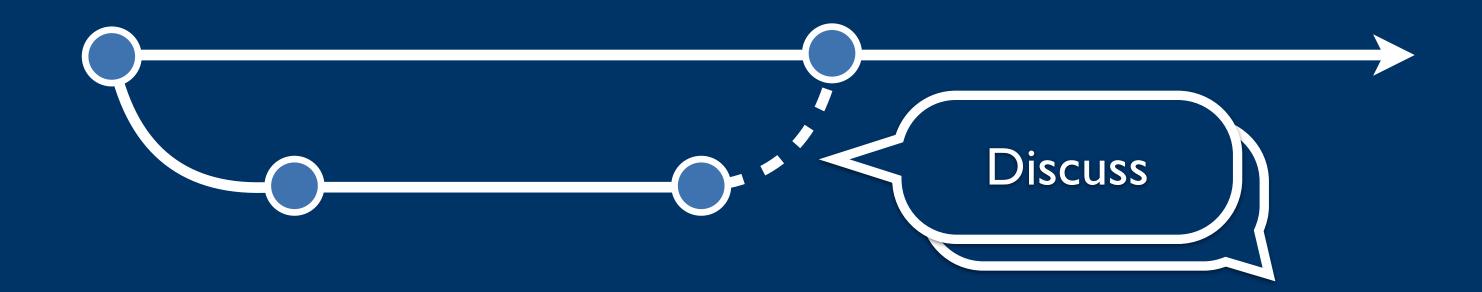
Pull request details







Be respectful!



Be respectful!

```
facebook_client.js /
                 /* gets the authorize url
              10 * @param {Object} options
             11 * @return {String}
   11
   12
             12 */
             13 CLIENT.getAuthorizeUrl = function (options) {
   13
                   options = options || {};
   14
 - 15
                   return _facebook_graph_url + '/oauth/authorize?' + querystring.stringify(op
            + 15
            + 16
                   if (AUTO TEST) {
            + 17
                       return mockURL():
                  } else {
            + 19
                       return facebook graph url + '/oauth/authorize?' + querystring.stringif
           + 20
             21 };
   16
   17
              22
   18
              23 /* Does an API call to facebook and callbacks
   19
              24 * when the result is available.
   20
   21
                  * @param {String} method
```

Be respectful!

```
facebook_client.js /
                  /* gets the authorize url
              10 * @param {Object} options
   11
              11 * @return {String}
              12 */
   12
              13 CLIENT.getAuthorizeUrl = function (options) {
   13
                   options = options || {};
   14
                   return _facebook_graph_url + '/oauth/authorize?' + querystring.stringify(op
 - 15
            + 15
                   if (AUTO TEST) {
    Max Taylor
    Love that you were finally able to mock the Facebook API.
    Reply · Delete · 4 days ago
```

Took a while but well worth it. Bamboo servers IP keeps getting banned by facebook.

Alana Grant

Reply · Delete · 4 days ago

Side by side diff

_pcompare like a pro

...

```
auiplugin / src / demo / soy / appheader-demo.soy MODIFIED
                    </div>
                                                                                                                                <div class="aui-dropdown2-section">
32
                   26
                   <!-- You can also use a split button in this location, if more than one prima
33
                                                                                                       27
                                                                                                                                     <a href="http://example.com/">Item 6</a>
                   <a class="aui-button aui-button-primary" href="http://example.com/">Actio</a>
                                                                                                       28
                                                                                                                                     <a href="http://example.com/">Item 7</a>
35
               29
           </div>
                                                                                                                               </div>
36
                                                                                                       30
37
           <div class="aui-header-secondary">
                                                                                                       31
                                                                                                                            </div>
               38
                                                                                                                          32
                   <1i>>
39 -
                                                                                                       33
                                                                                                                          <!-- You can also use a split button in this location, if more than one prima
                       <form action="/foo" method="post" class="aui-quicksearch">
                                                                                                       34
                                                                                                                          <a class="aui-button aui-button-primary" href="http://example.com/">Actio</a>
                                                                                                       35
                                                                                                                      <label for="quicksearchid" class="assistive">Search</label>
                                                                                                       36
                                                                                                                  </div>
                          <input id="quicksearchid" class="search" type="text" placeholder="Sea</pre>
                       </form>
                                                                                                       37
                                                                                                                  <div class="aui-header-secondary">
                                                                                                       38
                   44 -
                                                                                                                      39
                                                                                                                          <a href="#dropdown2-header7" aria-owns="dropdown2-header7" aria-haspopup=</a>
                   <a href="#dropdown2-header7" aria-owns="dropdown2-header7" aria-haspopup=</a>
                     <div class="aui-dropdown2 aui-style-default aui-dropdown2-in-header" id="dr</pre>
                                                                                                       40
                                                                                                                            <div class="aui-dropdown2 aui-style-default aui-dropdown2-in-header" id="dr</pre>
                         <div class="aui-dropdown2-section">
                                                                                                       41
                                                                                                                                <div class="aui-dropdown2-section">
                                                                                                       42
                                                                                                                                   <l
                                                                                                       43
                                                                                                                                       <1i><a href="http://example.com/" class="active">Online help</a>
                                <a href="http://example.com/" class="active">Online help</a>
50
                                <a href="http://example.com/">Keyboard shortcuts</a>
                                                                                                       44
                                                                                                                                       <a href="http://example.com/">Keyboard shortcuts</a>
                                                                                                                                       <1i><a href="http://example.com/">About Teams in Space</a>
                                <a href="http://example.com/">About</a>
                                                                                                                                       <a href="http://example.com/">Submit feedback</a>
                            47 +
                                                                                                                                       <a href="http://example.com/">API documentation</a>
                         </div>
53
                     </div>
                                                                                                       48 +
                                                                                                                                       <a href="http://example.com/">Privacy policy</a>
54
                   <a href="#dropdown2-header9" aria-owns="dropdown2-header9" aria-haspopup=</a>
                                                                                                             Kostya Marchenko
57
                          <div class="aui-avatar aui-avatar-small">
                                                                                                             Are you sure this should be added here? I thought we were going to review this after the next
58 -
                              <div class="aui-avatar-inner">
                                                                                                             release.
59
                                  <img src="static/img/avatar-16.png"></img>
                              </div>
60
                                                                                                             Reply · Edit · Delete · A moment ago
                          </div>
                                                                                                                                    <div class="aui-dropdown2 aui-style-default aui-dropdown2-in-header" id="dr</pre>
                                                                                                                               </div>
                         <div class="aui-dropdown2-section">
                                                                                                                            diam
```













Approvals



Minimum of approvals



Who would be the best to review

my code?











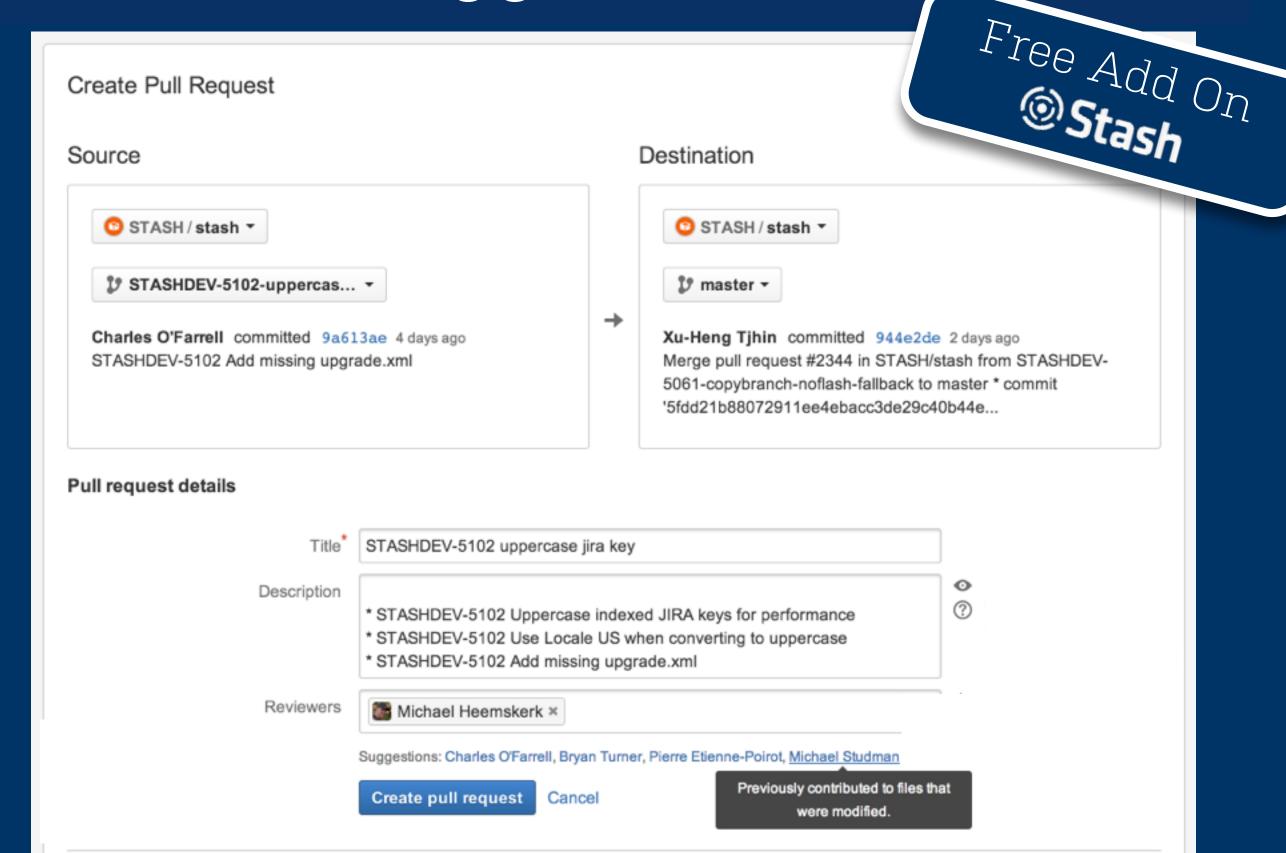




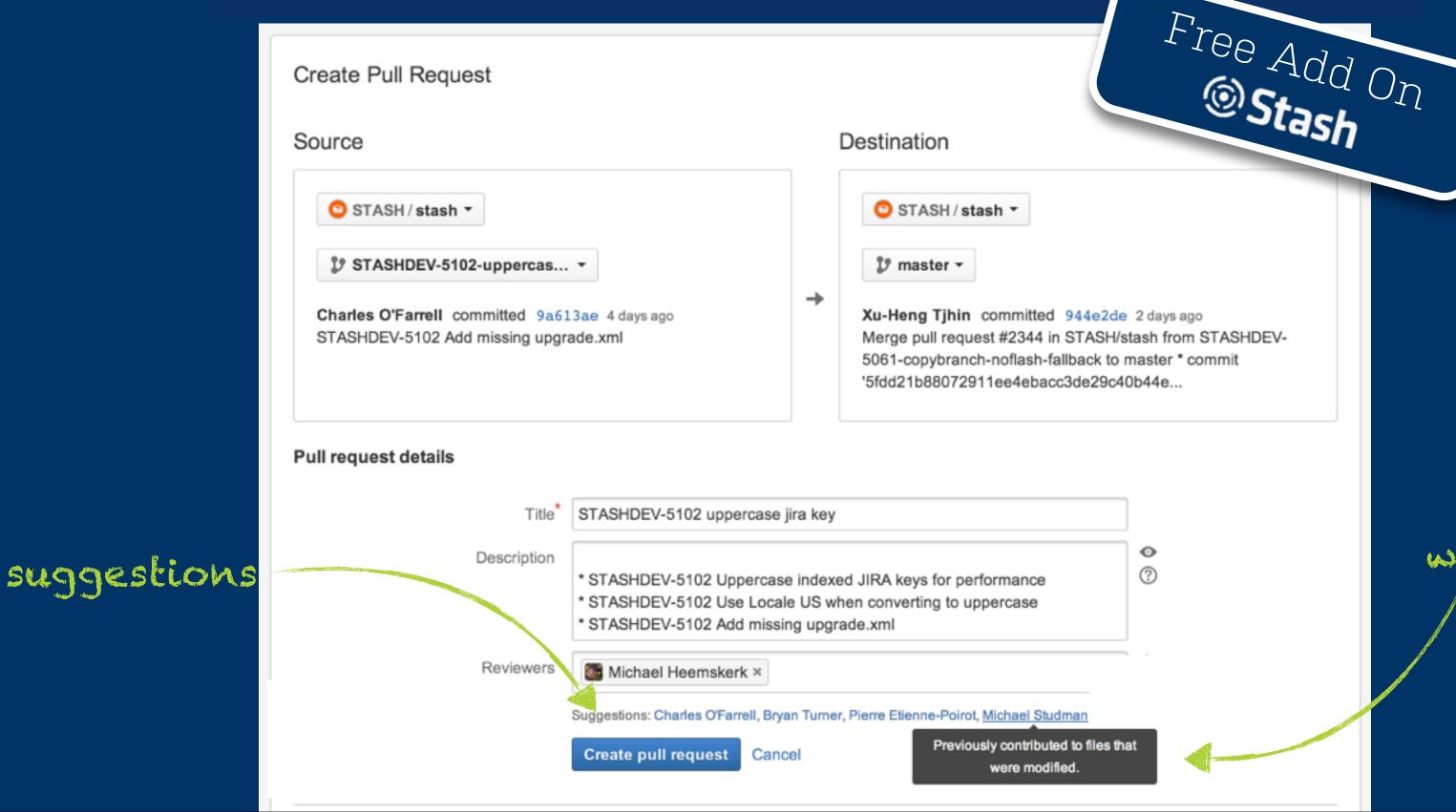


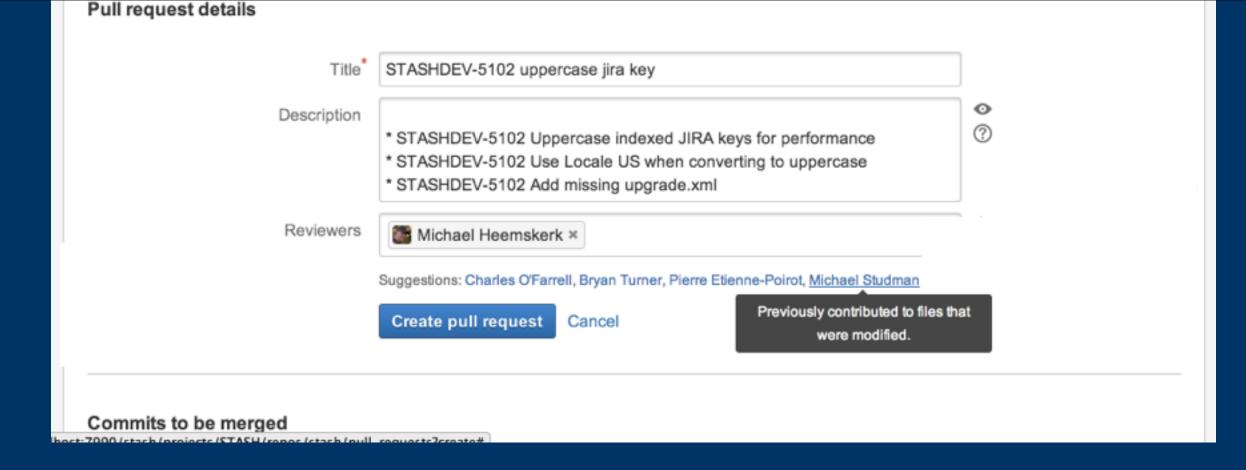


Auto Suggest Reviewers



Auto Suggest Reviewers





Suggestions:





committed code to this •
Pull Request

V contributed files that were modified

Code Reviews

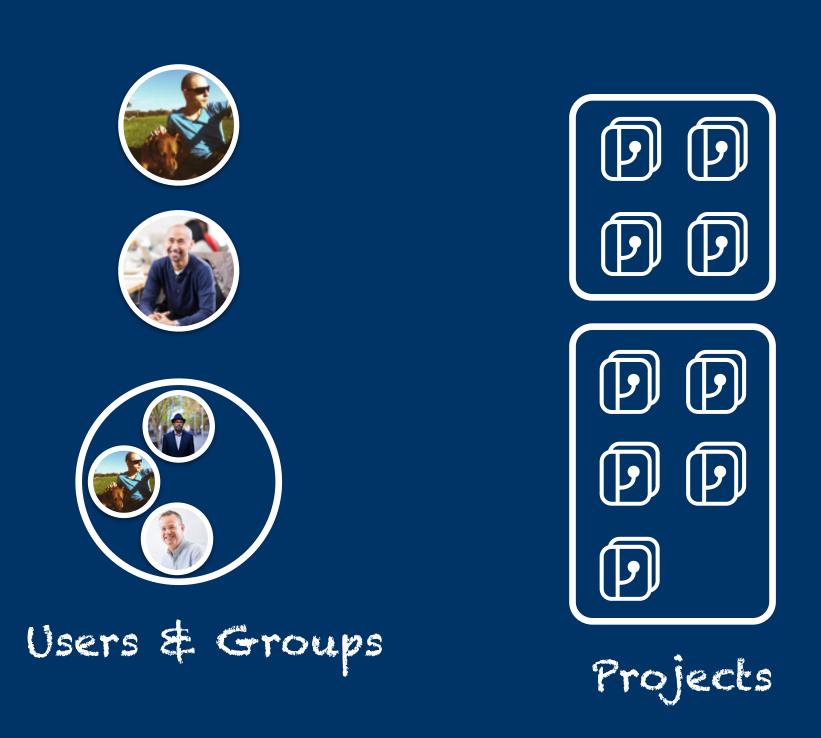
part of your daily workflow asynchronously painless

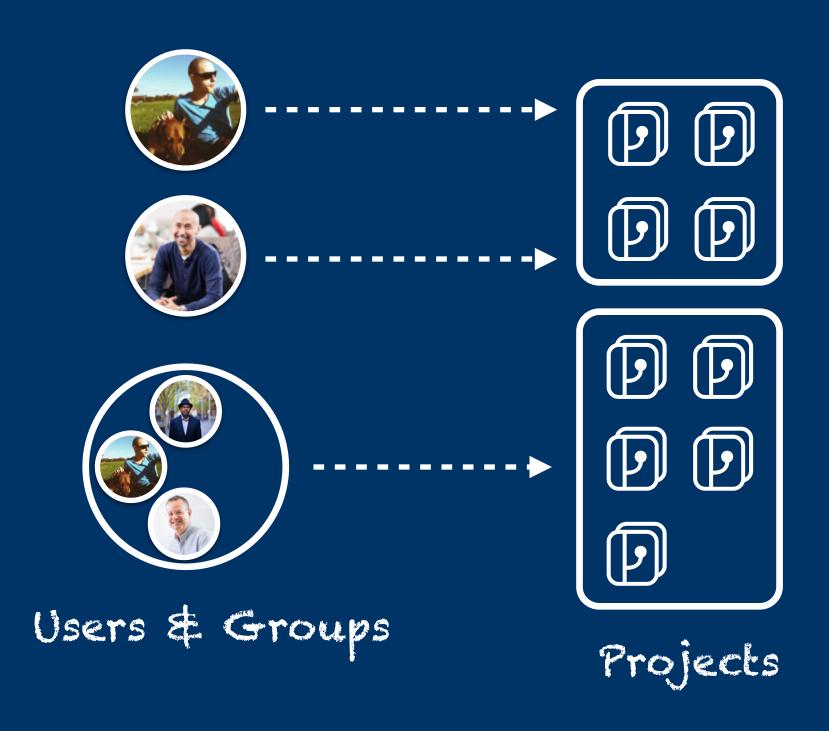
Security

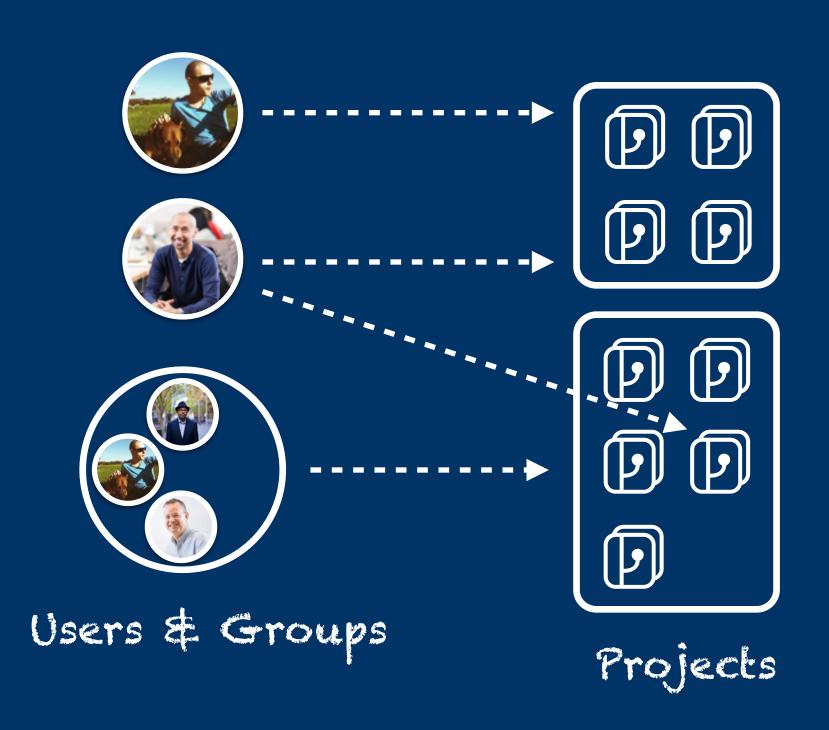


Control access to your repositories







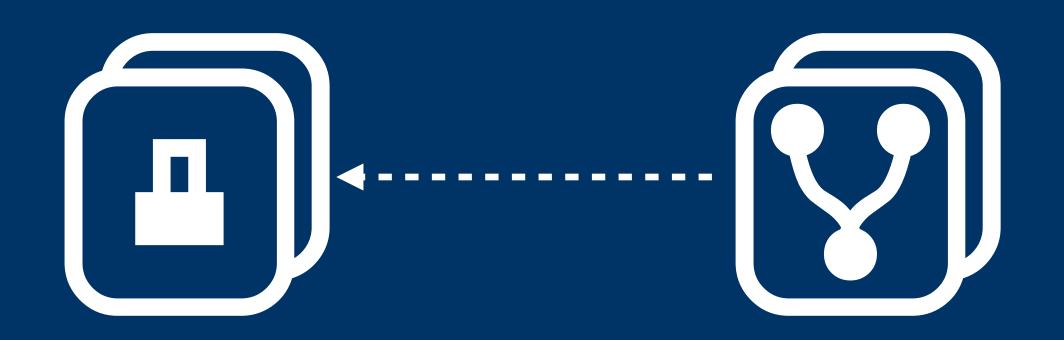




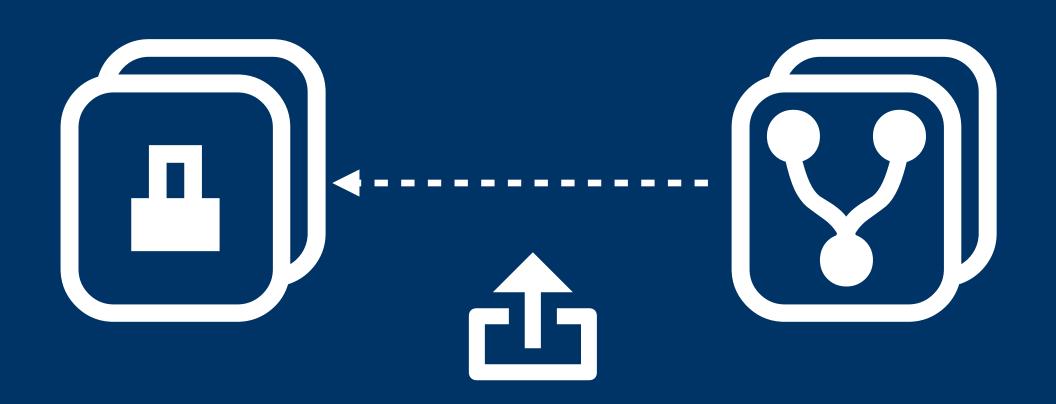
Server side clone of the repository



Server side clone of the repository



Pull request to contribute changes



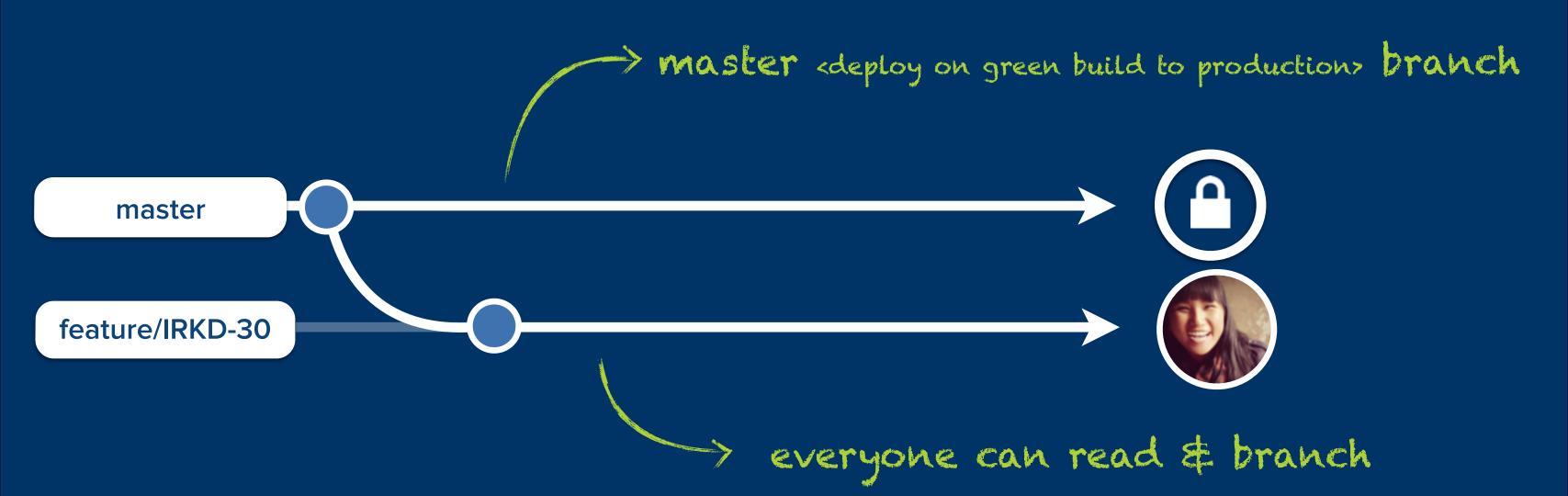


Branches

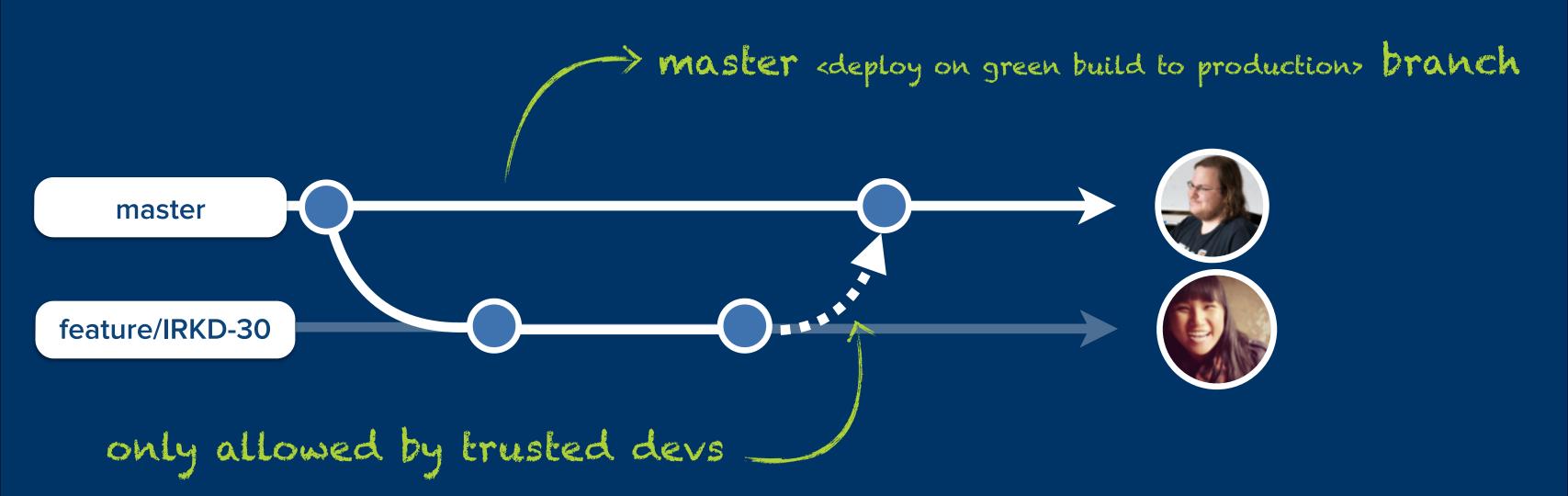


The apprentice

Branch Permissions with @Stash



Branch Permissions with @Stash



Know your priorities





Traceability

Every line of code starts with a Real Life Problem



Every line of code starts with an Issue

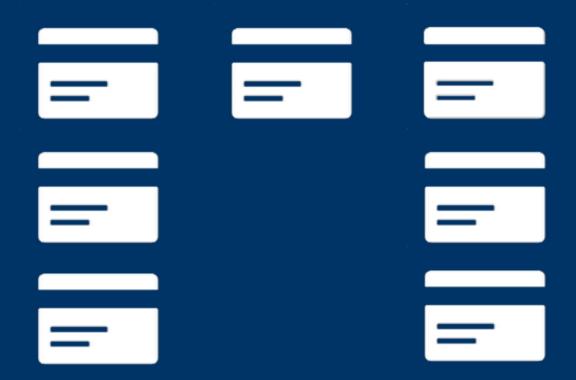


Every line of code should be connected to an **Issue**



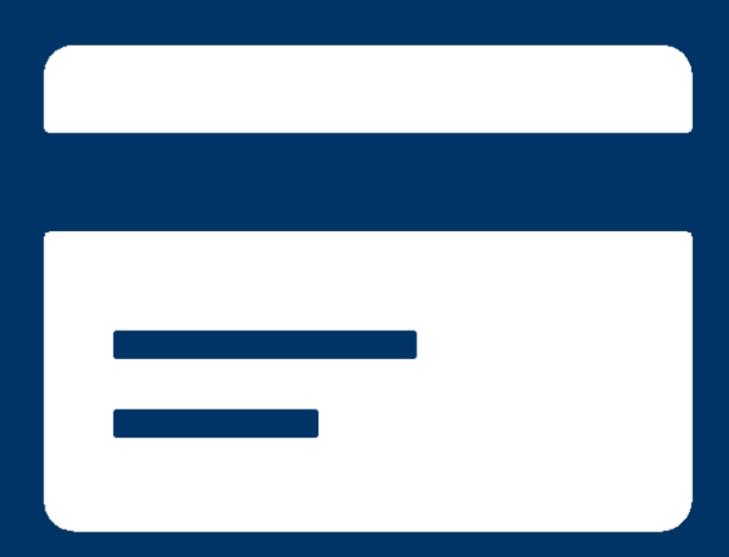
Issues







Issues



Code



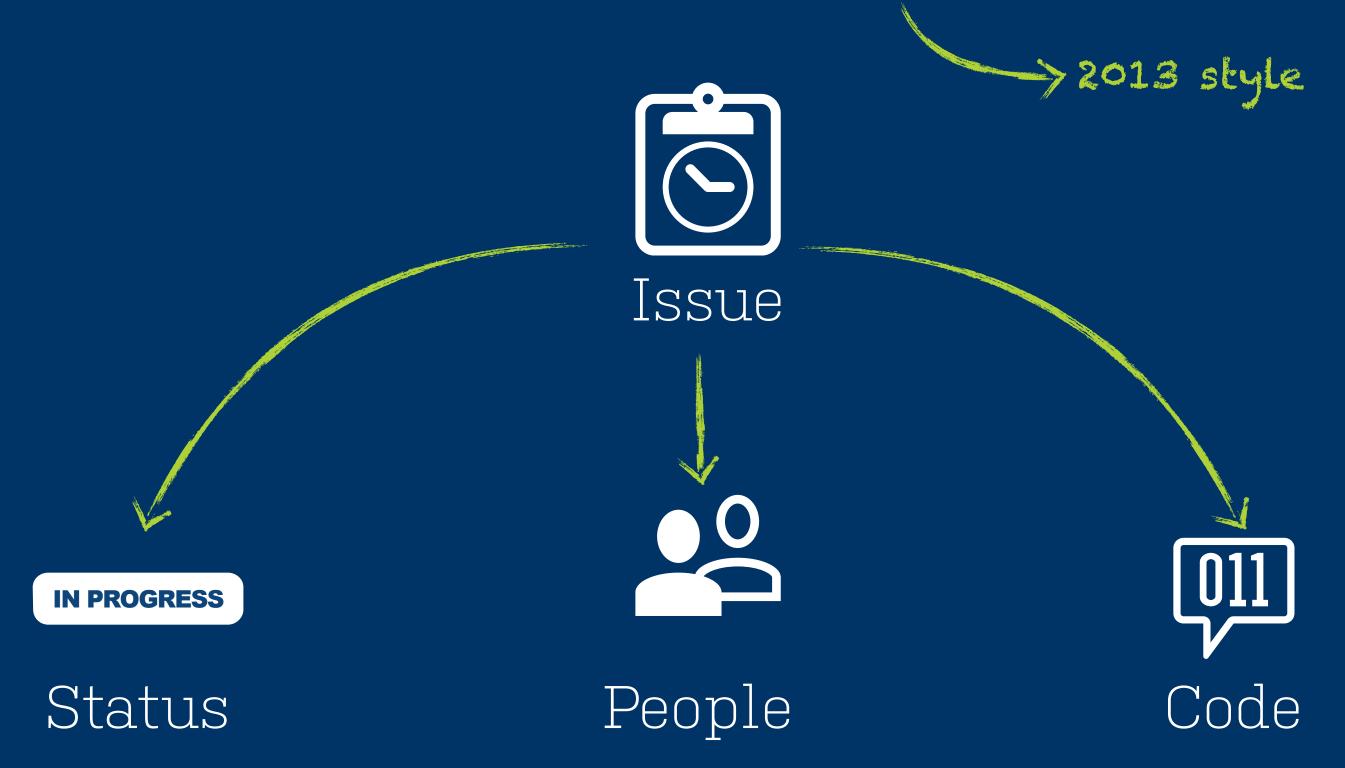
Issues



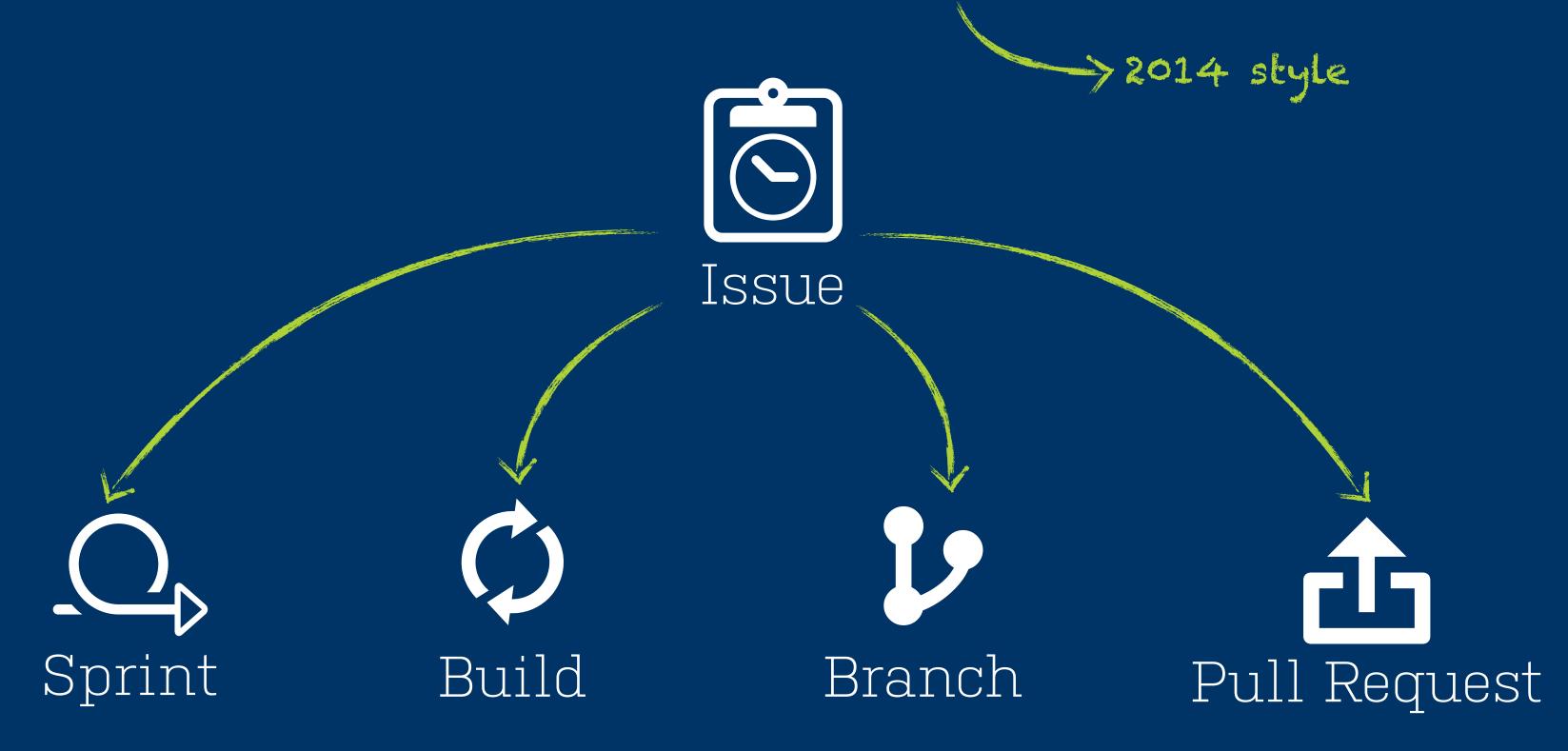
Code

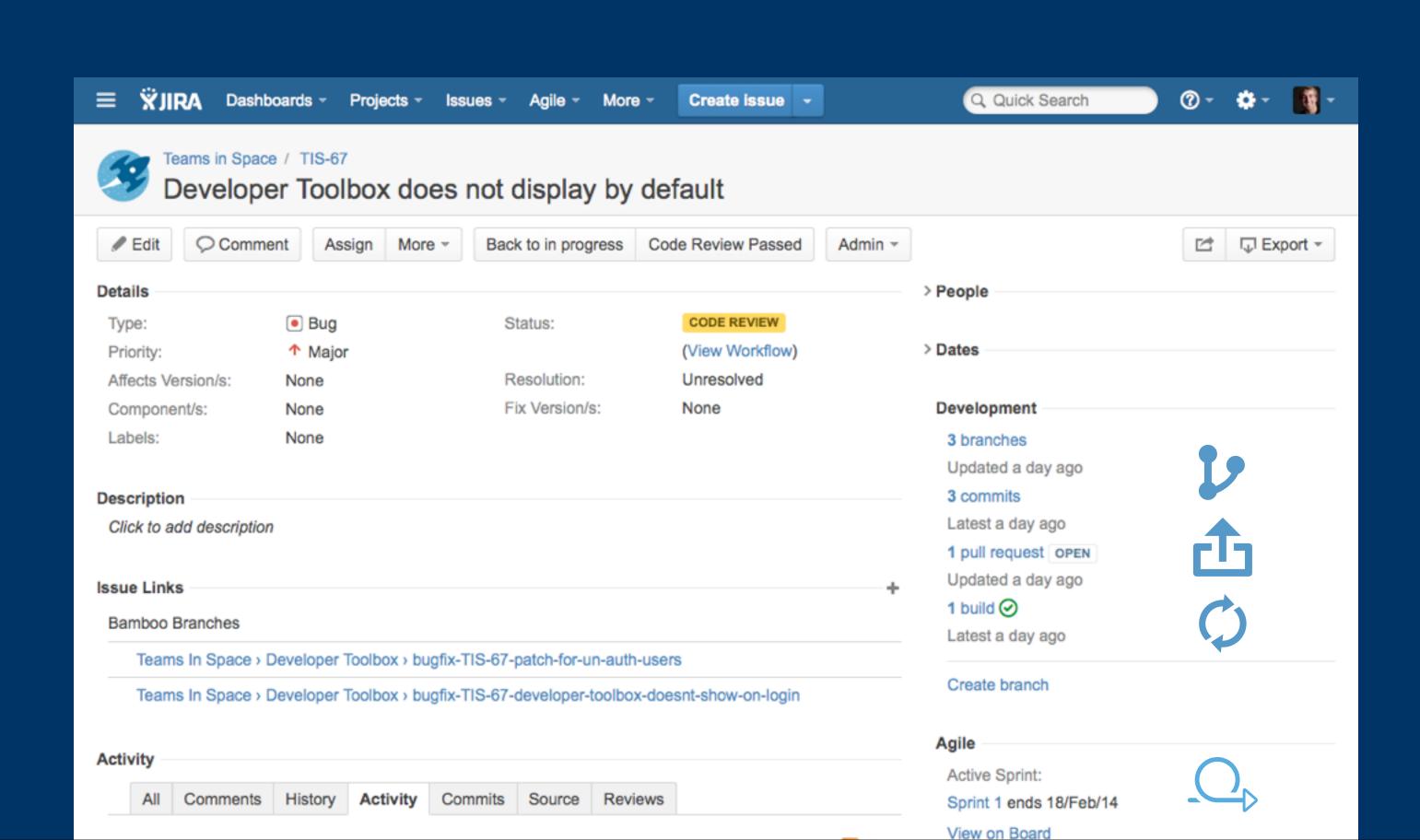


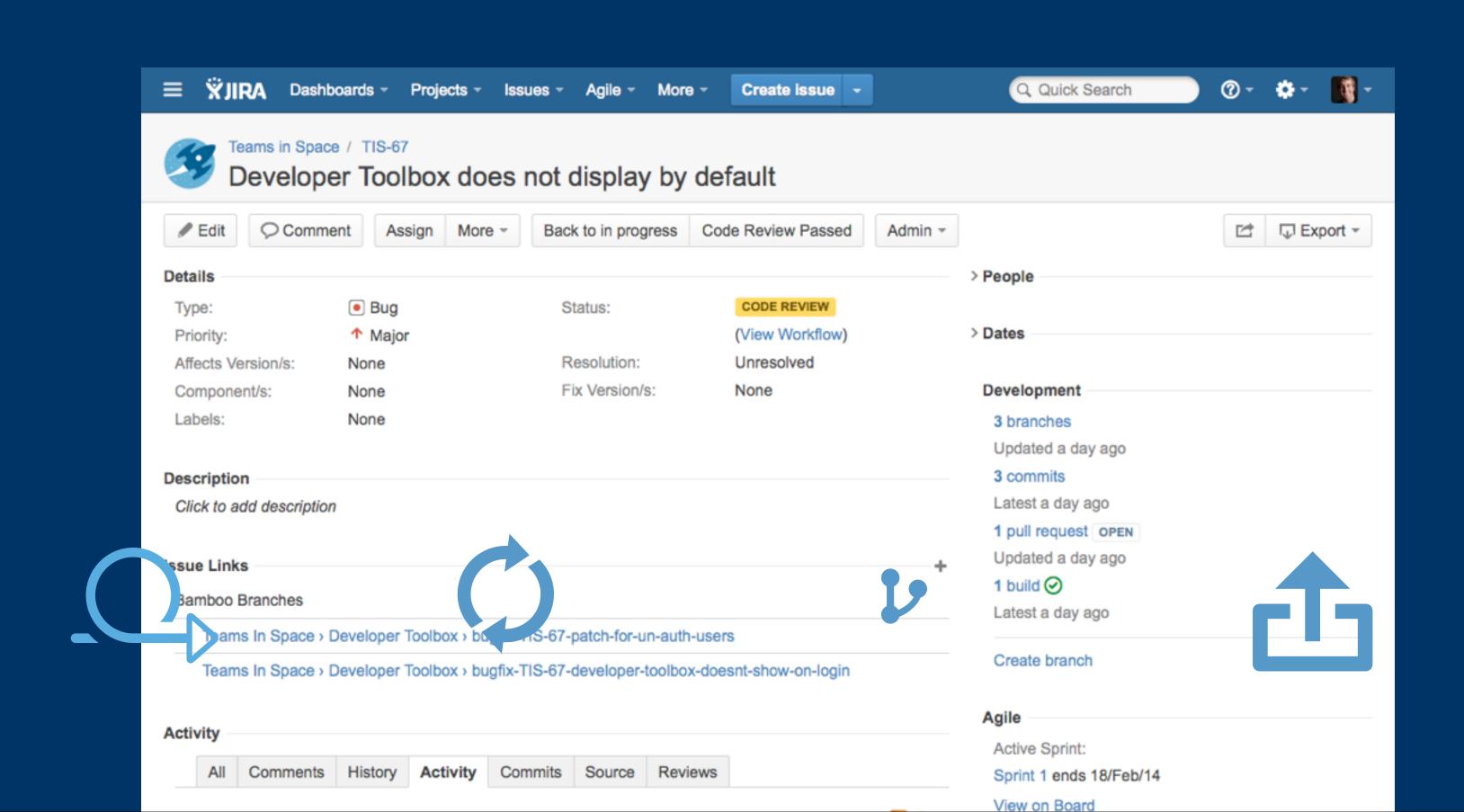
Track your development



Track your development





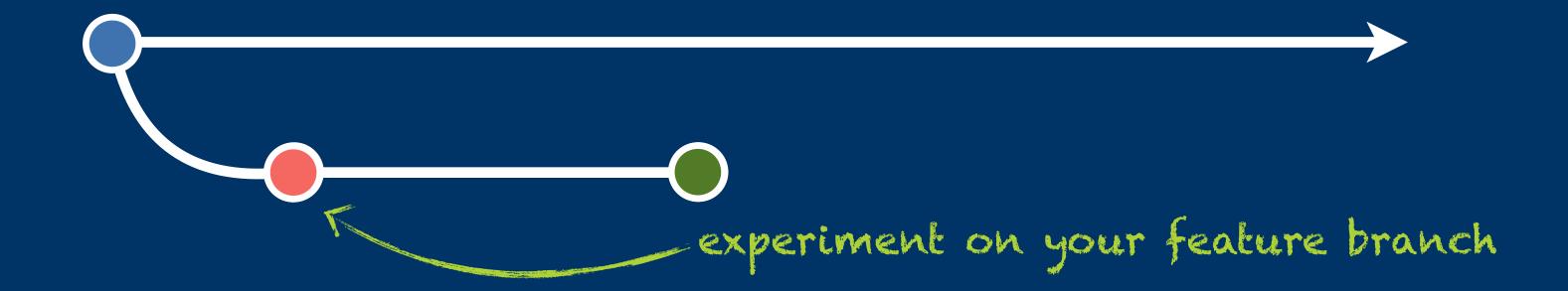


sit & CI

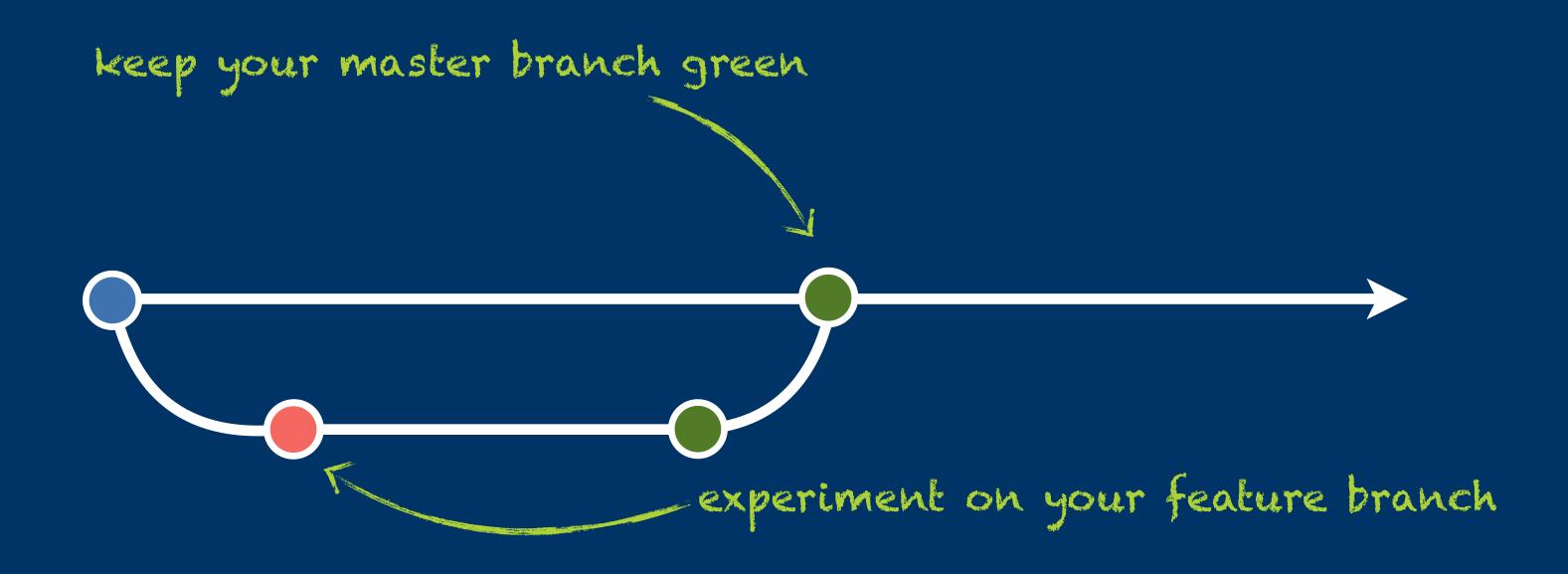
Running builds on feature branches



Running builds on feature branches



Running builds on feature branches

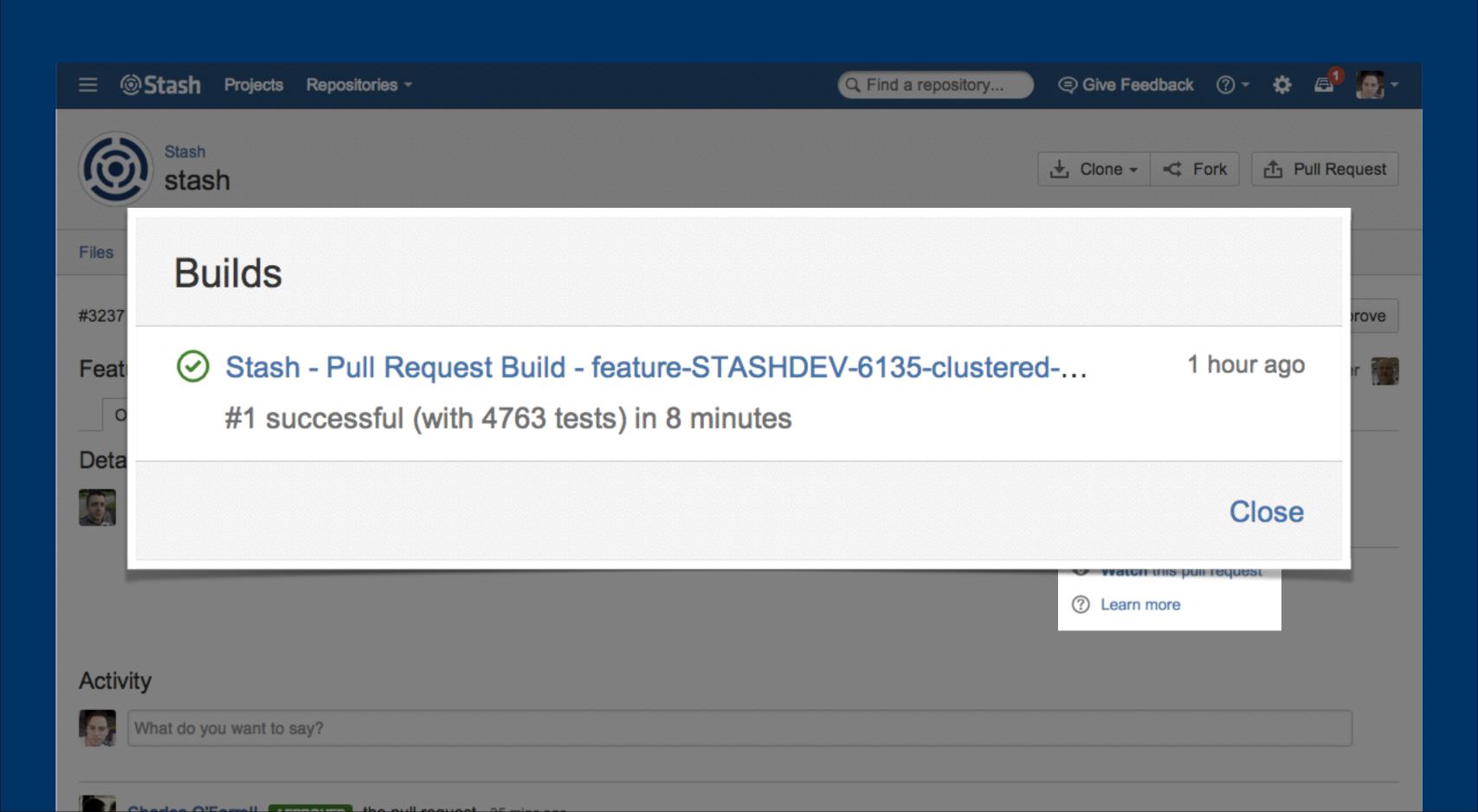


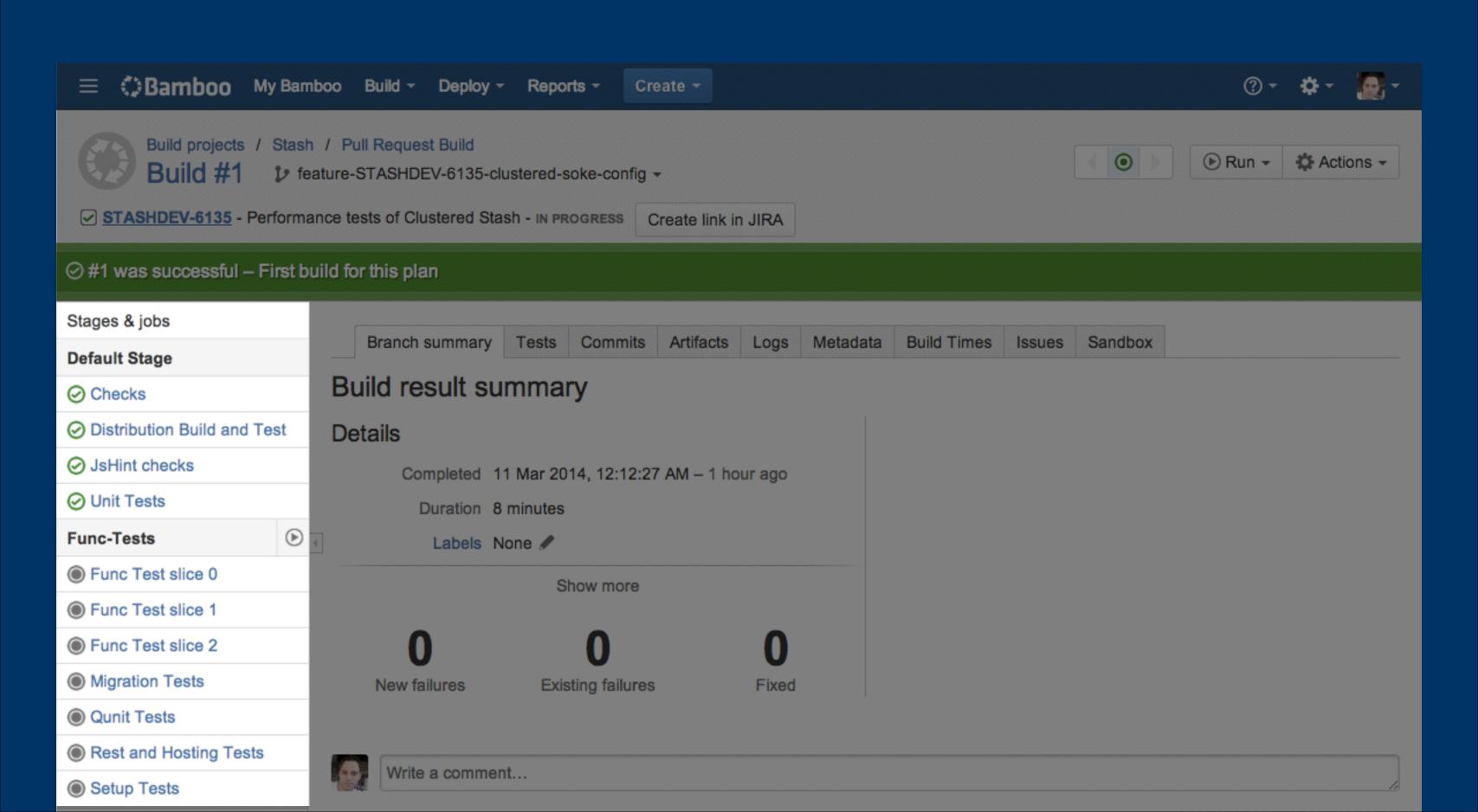
Clone master's CI config



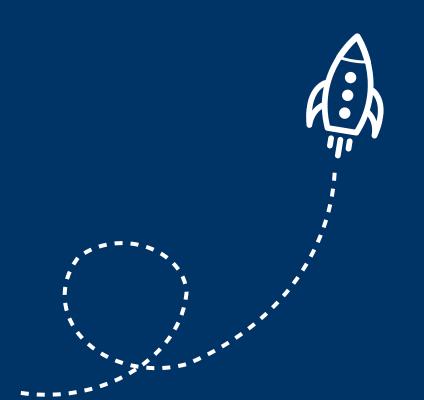
all active branches are under test

		W.	ago	lound	
CI Tests	s v	⊘ #10898	56 minutes	3073	Changes by Przemek Bruski
	() 17	BDEV-3679-mitja	ago	passed	
Deploy	① <u>#150</u>	Canary	11 hours	No tests found	Scheduled with changes by 4 people
	① #36	fusion2-build-related	ago	loulid	
Federa	⊘ #49	CI Tests - 5.2	1 hour ago	9 passed	Changes by Przemek Bruski
Integra	① #1	BDEV-3517	9 hours	No tests	Changes by Przemek Bruski and Tardigrade
v	⊘ #1	ROTP-1655-fix-bamboo-	ago	found	<tardigrade@atlassian.com></tardigrade@atlassian.com>
JDK 7 /		users	8 hours ago	No tests found	Scheduled with changes by 5 people
	⊘ #3	BDEV-3744_PG			
License	① #3	ROTP-1453-remove-OD- usermanagement-link	1 hour ago	No tests found	Changes by Przemek Bruski
MERCI	① #8	atlassian_bamboo_5_0_bran ch	3 months ago	No tests found	Changes by Marek Parfianowicz
OpenJI	① #45	CI-TEST5.0.x	1 hour ago	2899	Scheduled with changes by 6 people
	View all branches		i nour ago	passad	concedice mili onangoo by o pooplo





Less time configuring more time to code



See what's going on with QHipChat

Builds

Commits
New branches
Pull Requests

Bamboo	① Stash > Pull Request Build > STASHDEV-4781-changeset-icon-panel > #7 failed (rerun 2 times). 5 of 8818 failed. Manual run	0:33
Stash	Jonathan Poh committed to 1 branch at Stash/stash Created branch "STASHDEV-4954-add-missing-group-avatars"	0:38
Bamboo	Stash > Pull Request Build > STASHDEV-4876-branch-model-default-branch > #3 passed. 7849 passed. Changes by Dariusz Kordonski	0:42
Stash	Dariusz Kordonski committed to 1 branch at Stash/stash On branch "STASHDEV-4876-branch-model-default-branch" - STASHDEV-4876 trying to fix the no-preload data case (b53fdfde432f)	0:44
Bamboo	(!) Stash > Master > #1563 failed. 4 of 5019 failed. Changes by Xu-Heng Tjhin	0:47
Stash	Lukasz Wlodarczyk has been a naughty dev and pushed some changes directly to master in IRA/jira . These Feb7 is commits were unknown and should have been pushed on an issue branch first: - None marking the rename user metric unchecked. (ea555d6047f6)	11:15
PuppetDeployer	Deployment to production done at <u>PUPPETCI-PUPPETCD-PRODUCTIONDEPLOY-395</u> , changelog diff available <u>here</u>	0 AM
Stash	Dariusz Kordonski committed to 1 branch at <u>Stash/stash</u> On branch "master" - STASHDEV-4463 fixing branch model REST tests to accommodate for the revised e (<u>143c1fa6ba66</u>)	0:57

See what's going on with QHipChat

Deployment info

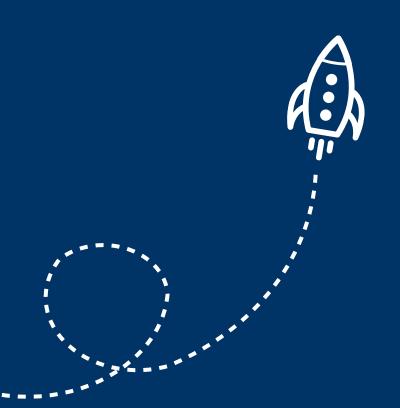
Bambo	(1) Stash > Pull Request Build > STASHDEV-4781-changeset-icon-panel > #7 failed (rerun 2 times). 5 of 8818 10:33 failed. Manual run				
Sta	Jonathan Poh committed to 1 branch at <u>Stash/stash</u> Created branch "STASHDEV-4954-add-missing-group-avatars"				
Bamb	Stash > Pull Request Build > STASHDEV-4876-branch-model-default-branch > #3 passed. 7849 passed. Changes by Dariusz Kordonski				
Sta	Dariusz Kordonski committed to 1 branch at <u>Stash/stash</u> On branch "STASHDEV-4876-branch-model-default-branch" - STASHDEV-4876 trying to fix the no-preload data case (<u>b53fdfde432f</u>)				
Bamb	(1) Stash > Master > #1563 failed. 4 of 5019 failed. Changes by Xu-Heng Tjhin				
Stash	Lukasz Wlodarczyk has been a naughty dev and pushed some changes directly to master in IRA/jira . These Feb7 11:15 10:48 commits were unknown and should have been pushed on an issue branch first: - None marking the rename user metric unchecked. (ea555d6047f6)				
PuppetDeploy	Deployment to production done at PUPPETCI-PUPPETCD-PRODUCTIONDEPLOY-395, changelog diff available here				
Sta					
	On branch "master" - STASHDEV-4463 fixing branch model REST tests to accommodate for the revised e (143c1fa6ba66)				

See what's going on with QHipChat

Warnings

33
38
42
44
47
48
АМ
57
4444

Less time context switching more time to code







Ship software faster & smarter





Q & A