



LE REVUE DE CODE EXPLIQUÉE AUX AGILISTES

@vaceletm

BIO

- › Enalean CTO
- › Developer
- › Agile
- › Software engineering

WHY TO REVIEW CODE ?



WHERE IT COMES FROM ?

- Well known practice in FLOSS* world
- Various strategy: patches (LKML), "pull requests", ...

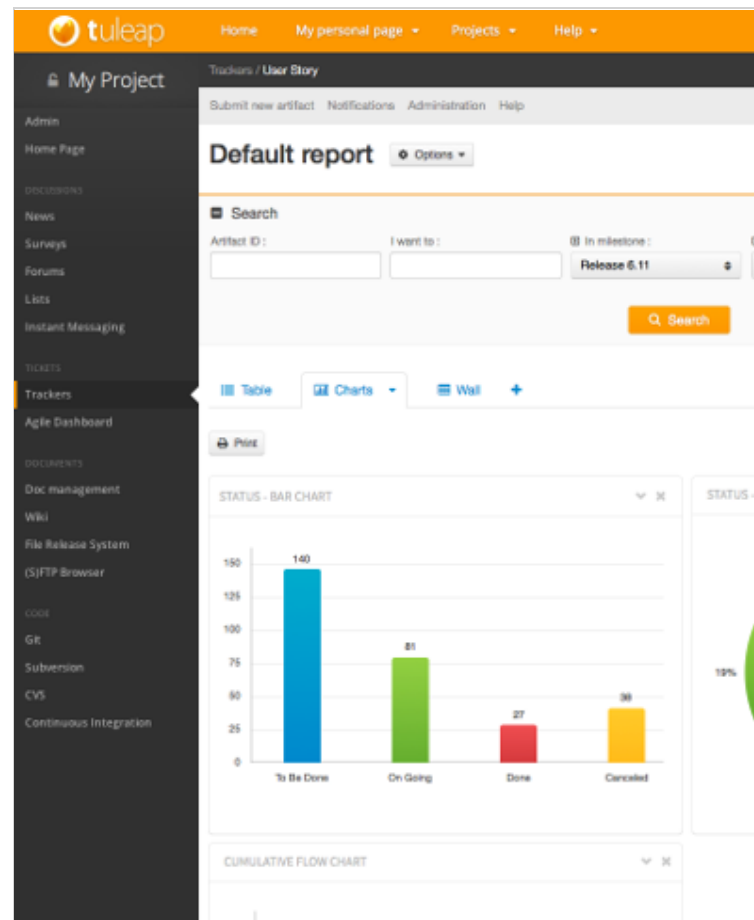
* Free Libre and Open Source Software

BUT... WE BUILD A CULTURE OF TRUST
!

BUT... WE ARE DOING PAIR
PROGRAMMING!

BUT... IT SLOWS DOWN DELIVERY
FLOW !

INTRODUCING TULEAP PROJECT



CODE REVIEW PRACTICES

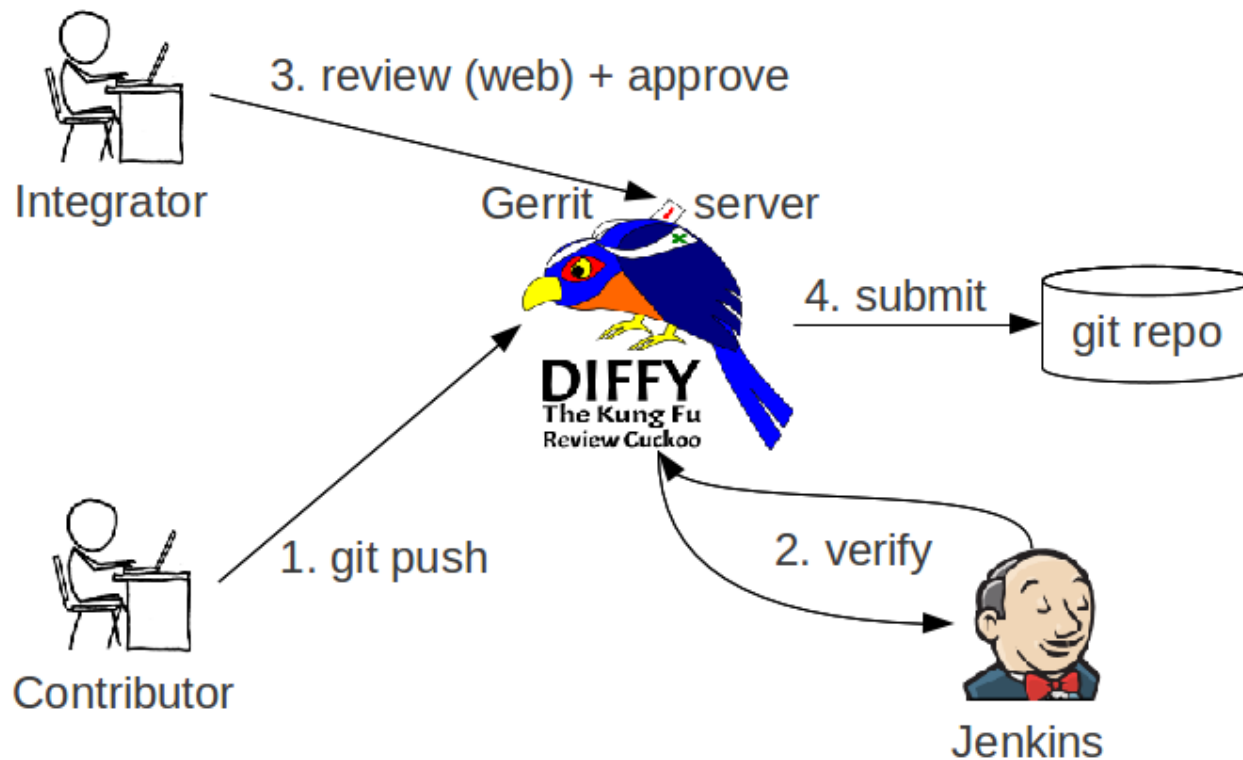
- Commit reading (aka. Nicolas stands up)
- Diff in wiki pages (don't do that!)
- Review board
- Gerrit

GERRIT



- › Comes from Android project
- › Git only
- › Users: Eclipse, Openstack, Sony, Motorola, Google, SAP, ...

GERRIT WORKFLOW



REVIEWS DASHBOARD

All My Projects People Plugins Documentation

status:open

Search

Manuel V

Open Merged Abandoned

Search for status:open

Subject	Status	Owner	Project	Branch	Updated	CR	V
★ Fix github's README		Yannis Rossetto	tuleap	master (stuff)	10 days ago		✓
★ Fix request #7118: List values are not properly sanitized in changesets		Nicolas Terray	tuleap	master	12 days ago		✓
★ Follow-up request #7104: DRY on subversion repository path		Manuel Vacelet	tuleap	master (dry-svn_prefix)	14 days ago		✓
★ Replacing ui-tree by ui-sortable (faster than your daddy's car). Jscrollpane ...		Benjamin Dauton	tuleap	6929_high_performance_planning_view	2 weeks ago		✓
★ Import a user into a LDAP server	Draft	Manuel Vacelet	tuleap	master	3 weeks ago		
★ Preparing battle field for knockout js		Martin GOYOT	tuleap	master	3 weeks ago		✓
★ request #6920: process_system_event marks previous RUNNING events as ERROR		Dylan	tuleap	master	3 weeks ago	-1	✓
★ Remove dead code		Manuel Vacelet	tuleap	master (clean_augias)	4 weeks ago		✗
★ Do not create docman v1 tables in 2014		Manuel Vacelet	tuleap	master (clean_augias)	4 weeks ago		✗
★ Update sources metadata		Manuel Vacelet	tuleap	master (clean_augias)	4 weeks ago	-1	✗
★ Add note for future clean-up		Manuel Vacelet	tuleap	master (clean_augias)	4 weeks ago		✗
★ No longer load tv3 datastructure		Manuel Vacelet	tuleap	master (clean_augias)	4 weeks ago		✗
★ request #6964: Prevent users to enter misspelled emails during registration		Nicolas Terray	tuleap	master	4 weeks ago	-1	✓
★ At XML import, import columns too	Draft	Manuel Vacelet	tuleap	master	5 weeks ago		
★ request #6635 : Fix fatal error REST PUT artifacts:/id/		Yannis Rossetto	tuleap	master	6 weeks ago	-1	✓
★ Introduce a "sample project feeder"		Manuel Vacelet	tuleap	master	6 weeks ago	-1	✓
★ WIP: Tourification of account maintenance	Draft	Nicolas Terray	tuleap	6341_merge_account_and_pref_pages	7 weeks ago		
★ Export triggers in tracker XML structure		Yannis Rossetto	tuleap	6632_trigger_not_exported_in_xml	3 months ago		✓

ONE REVIEW

All My Projects People Plugins Documentation Manuel V

[Open](#) [Merged](#) [Abandoned](#)

Change-Id: I8145eab516116a599d3addfe9cfe0ed7a92ac7da

Owner: Yannis Rossetto

Project:

Branch: master

Topic: welcome_tour

Uploaded: 03.07.2014 17:16

Updated: 04.07.2014 20:19

Submit Type: Merge if Necessary

Status: Review in Progress

★ **Commit Message** [Permalink](#)

Add Tuleap welcome tour

- * Add tour in my page
- * Add never show me again button
- * i18n
- * Save in pref
- * LESS

Change-Id: I8145eab516116a599d3addfe9cfe0ed7a92ac7da

Reviewer	Code-Review	Verified
Yannis Rossetto	<input checked="" type="checkbox"/>	
Dylan Bowden	<input checked="" type="checkbox"/>	
Sandra Echinard	<input checked="" type="checkbox"/>	
Manuel Vacelet	<input checked="" type="checkbox"/>	
Martin GOYOT	<input checked="" type="checkbox"/>	
Dylan	<input checked="" type="checkbox"/>	
Nicolas Terray	<input checked="" type="checkbox"/>	
Jenkins @ Tuleap	<input checked="" type="checkbox"/>	✓
Benjamin Dauton	<input checked="" type="checkbox"/> +1	

• Need Code-Review

► **Dependencies**

Reference Version:

PATCH

- ▶ **Patch Set 1** 94dc65d6e629153a0117eb93cad62ddbdf691754
- ▶ **Patch Set 2** de26912c51310ef7f313e7ba3b872963e5edbe45
- ▶ **Patch Set 3** 4edc094b8fc43a379b49fd14207218ea72600278
- ▶ **Patch Set 4** f045982d9a7ba821e8bc7d0cbce7f20efebe709d
- ▶ **Patch Set 5** def932cae9e0eed6d38d9cee18244db32029b5e5
- ▼ **Patch Set 6** d97c34d4006b179ea2619d4334096f98190729be

Author Yannis ROSSETTO <yannis.rossetto@enalean.com> 03.07.2014 12:05
Committer Nicolas Terray <nicolas.terray@enalean.com> 04.07.2014 16:01
Parent(s) caae0bb16f1fabde5c14731461d48d8cfe2dc85 This is Tuleap 7.2.99.25
Download [checkout](#) | [pull](#) | [cherry-pick](#) | [SSH](#) | [HTTP](#)
git fetch ssh://vaceletm@gerrit.tuleap.net:29418/tuleap refs/changes/35/2735/6 && git checkout FETCH_HEAD

[Review](#) [Cherry Pick To](#) [Abandon Change](#) [Rebase Change](#)

	File Path	Comments	Size	Diff	Reviewed
▶	Commit Message			Side-by-Side Unified	
M	site-content/en_US/my/my.tab		+17, -0	Side-by-Side Unified	
A	site-content/en_US/tour/tour.tab		3 lines	Side-by-Side Unified	
M	site-content/fr_FR/my/my.tab		+19, -1	Side-by-Side Unified	
A	site-content/fr_FR/tour/tour.tab		3 lines	Side-by-Side Unified	
M	src/common/autoload.php		+6, -2	Side-by-Side Unified	
M	src/common/tour/Tour.class.php		+24, -13	Side-by-Side Unified	
A	src/common/tour/TourFactory.class.php		43 lines	Side-by-Side Unified	
A	src/common/tour/TourUsage.class.php		41 lines	Side-by-Side Unified	
A	src/common/tour/TourUsageStatsDao.class.php		37 lines	Side-by-Side Unified	
M	src/common/tour/Tour_Step.class.php		+7, -4	Side-by-Side Unified	
A	src/common/tour/WelcomeTour.class.php		66 lines	Side-by-Side Unified	

DIFF, COMMENTS

```
48 </h3 class="popover-title"></h3>
49 <div class="popover-content"></div>
50 <div class="popover-navigation">
51     <button class="btn btn-small" data-role="prev"><< Prev</button>
52     <button class="btn btn-small" data-role="next">Next >></button>
53     <button class="btn btn-small" data-role="end">End tour</button>
54     <div style="clear: both"></div>
55 </div>
56 </nav>
57 </div>;
```

```
58
59 public function __construct($name, array $steps) {
60     $this->name = $name;
61     $this->steps = $steps;
62 }
63
```

```
public function __construct($name, array $steps) {
    $this->name = $name;
    $this->steps = $steps;
```

```
    $this->initTemplate();
}
```

```
private function initTemplate() {
    $this->template = '<div class="popover tour">
    <div class="arrow"></div>
    <h3 class="popover-title"></h3>
    <div class="popover-content"></div>
    <div class="popover-navigation">
        <button class="btn btn-small" data-role="prev">
            ', $GLOBALS['Language']->getText('tour', 'previous_button') .'
        </button>
        <button class="btn btn-small" data-role="next">
            ', $GLOBALS['Language']->getText('tour', 'next_button') .'
        </button>
        <button class="btn btn-small" data-role="show">
```

Nicolas Terray The presence of two buttons "end" seems odd. 3. Jul

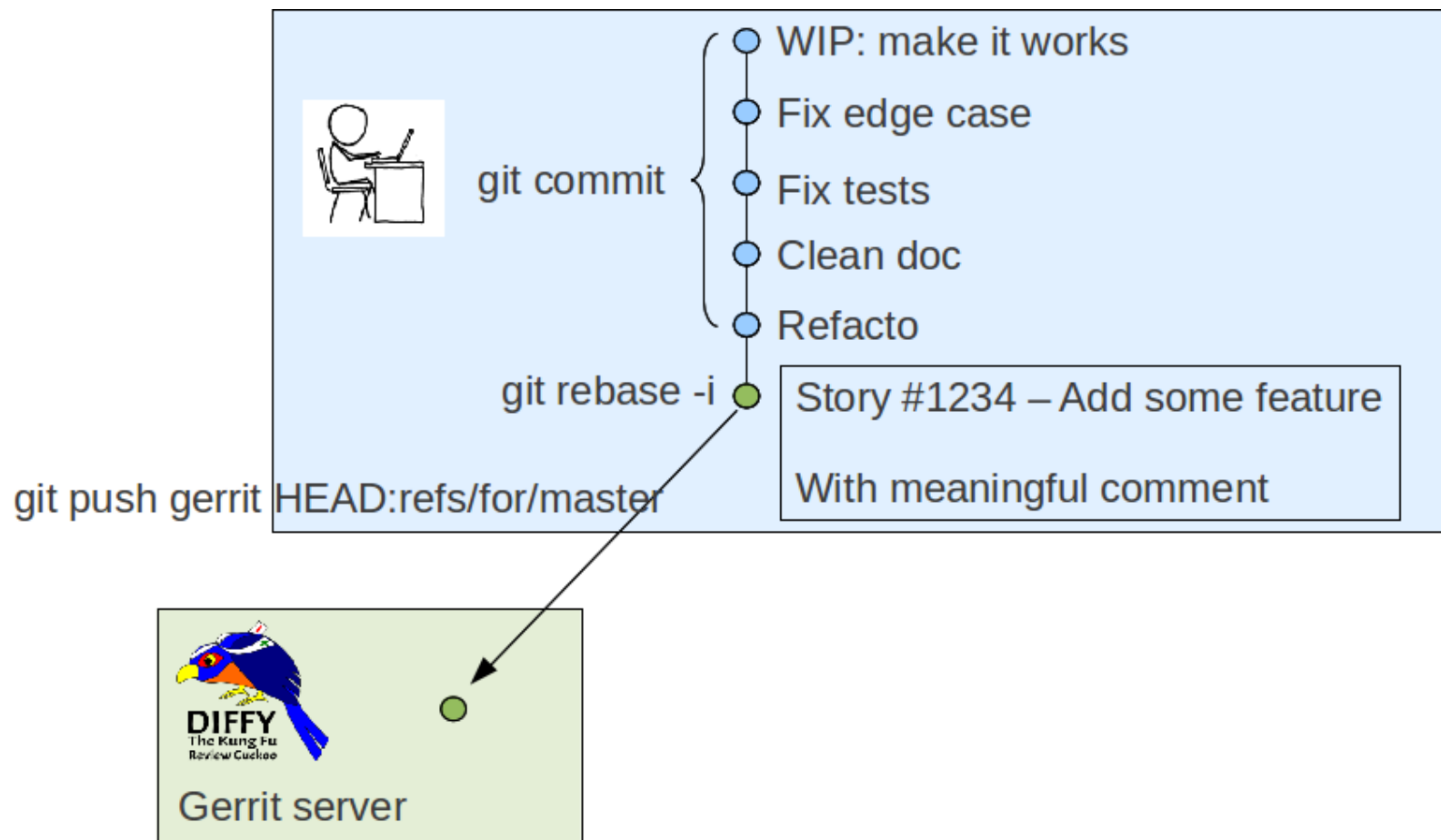
Yannis Rossetto As discussed yesterday, we want to have 2 behaviour : * one button to ... 4. Jul

```
        ', $GLOBALS['Language']->getText('tour', 'end_button') .'
    </button>
    <button class="btn btn-small" data-role="end">
        ', $GLOBALS['Language']->getText('tour', 'never_button') .'
    </button>
    </div>
    </div>
    </div>
```

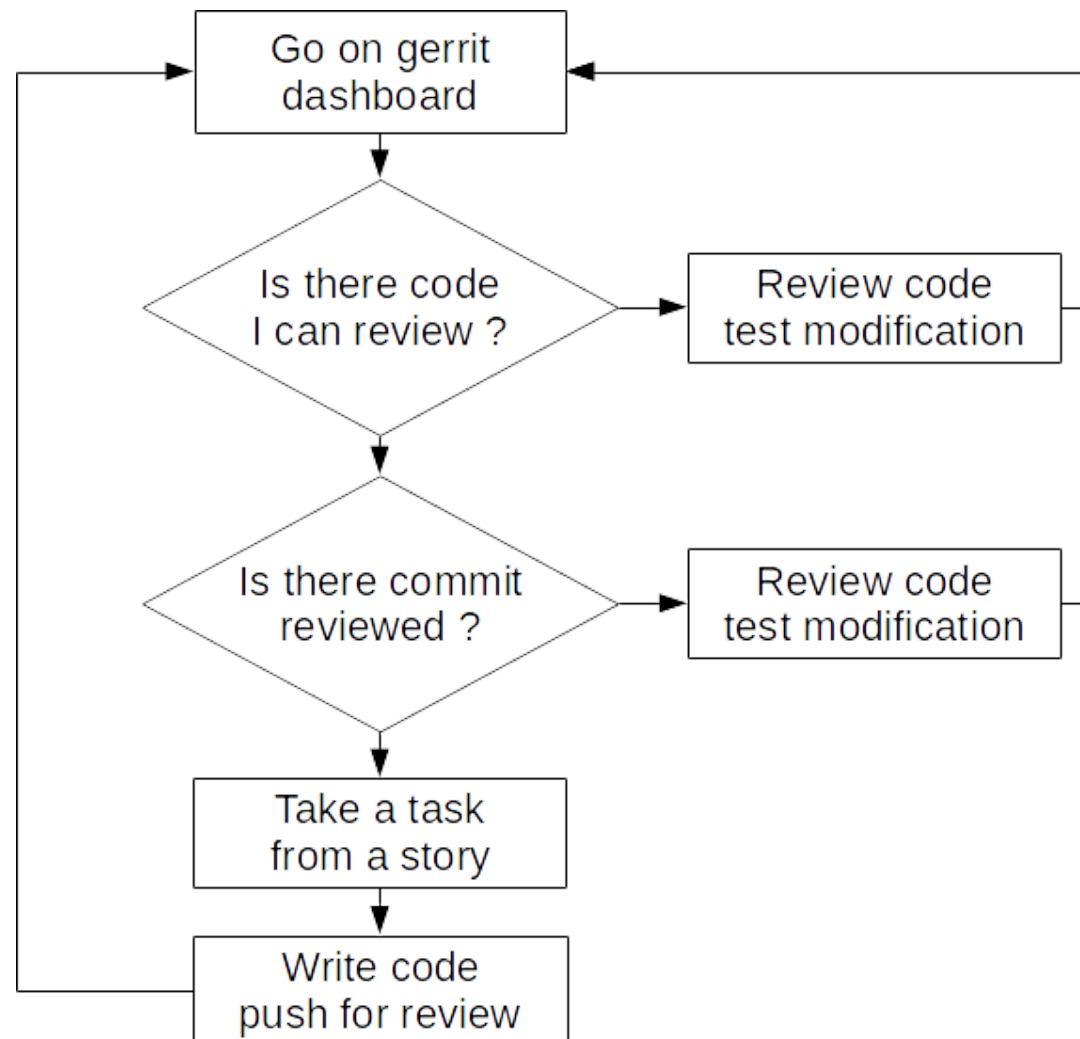

REVIEW EACH COMMIT

- each commit is a functional subset of the story
- clean your history

SHAPE YOUR COMMITS!



DEVELOPER FLOW



WHY IT SPEEDS UP ?

- Focus on delivery & integration
- All commits are read by at least 2 devs
- Better commits (content & form)

UNEXPECTED BENEFIT: KNOWLEDGE SHARING

- › How do you manage developer ramps up ?
- › Common practices
- › Empowerment and self awareness

CONCLUSION

- It was not an easy move
- but it was worth the effort
- interesting side effect: git fu