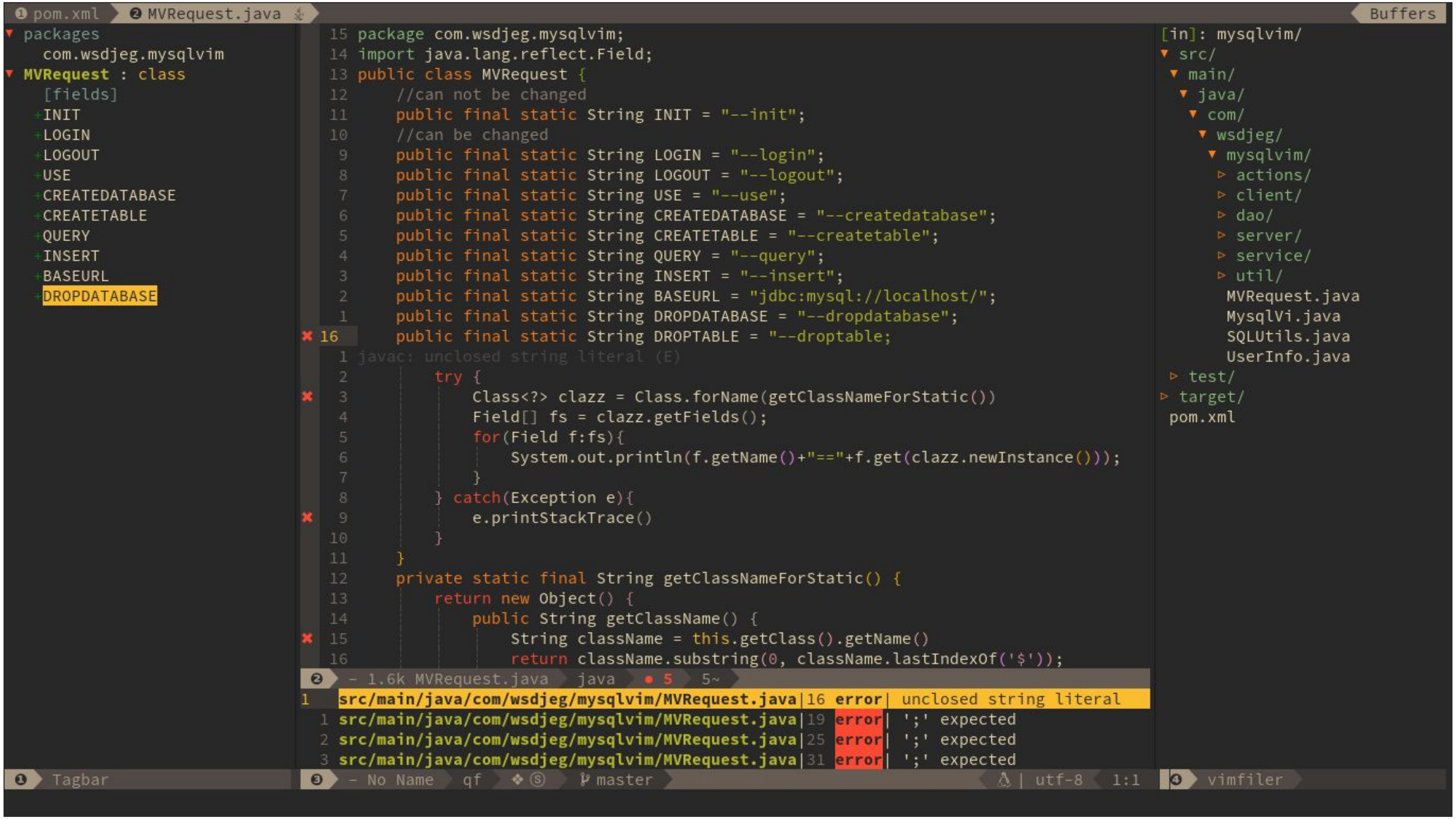
Skillbox

Теория и концепция Continuous Integration (CI)

Ошибка — отсутствие ссылок на стейджинг

Время — деньги!
Максимально быстрая разработка продуктов

Баг на стадии разработки
Баг в готовом продукте



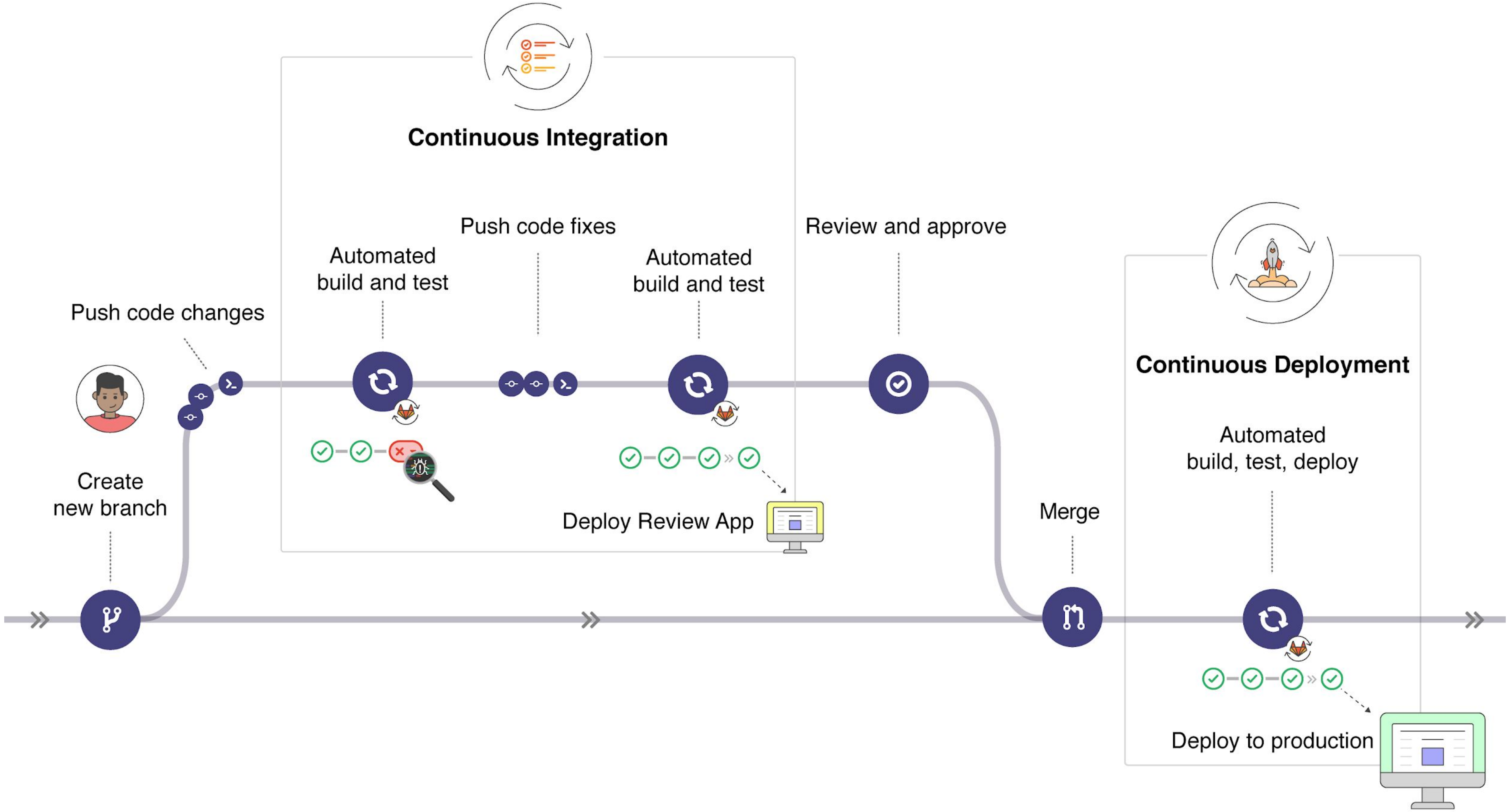
```
▾ packages
    com.wsdjeg.mysqlvim
▾ MVRequest : class
    [fields]
   +INIT
   +LOGIN
   +LOGOUT
   +USE
   +CREATEDATABASE
   +CREATETABLE
   +QUERY
   +INSERT
   +BASEURL
   +DROPDATABASE
```

```
package com.wsdjeg.mysqlvim;
import java.lang.reflect.Field;
public class MVRequest {
    //can not be changed
    public final static String INIT = "--init";
    //can be changed
    public final static String LOGIN = "--login";
    public final static String LOGOUT = "--logout";
    public final static String USE = "--use";
    public final static String CREATEDATABASE = "--createdatabase";
    public final static String CREATETABLE = "--createtable";
    public final static String QUERY = "--query";
    public final static String INSERT = "--insert";
    public final static String BASEURL = "jdbc:mysql://localhost/";
    public final static String DROPDATABASE = "--dropdatabase";
    public final static String DROPTABLE = "--droptable;
javac: unclosed string literal (E)
        try {
            Class<?> clazz = Class.forName(getClassNameForStatic())
            Field[] fs = clazz.getFields();
            for(Field f:fs){
                System.out.println(f.getName()+"=="+f.get(clazz.newInstance()));
            }
        } catch(Exception e){
            e.printStackTrace()
        }
    }
    private static final String getClassNameForStatic() {
        return new Object() {
            public String getClassName() {
                String className = this.getClass().getName()
                return className.substring(0, className.lastIndexOf('$'));
```

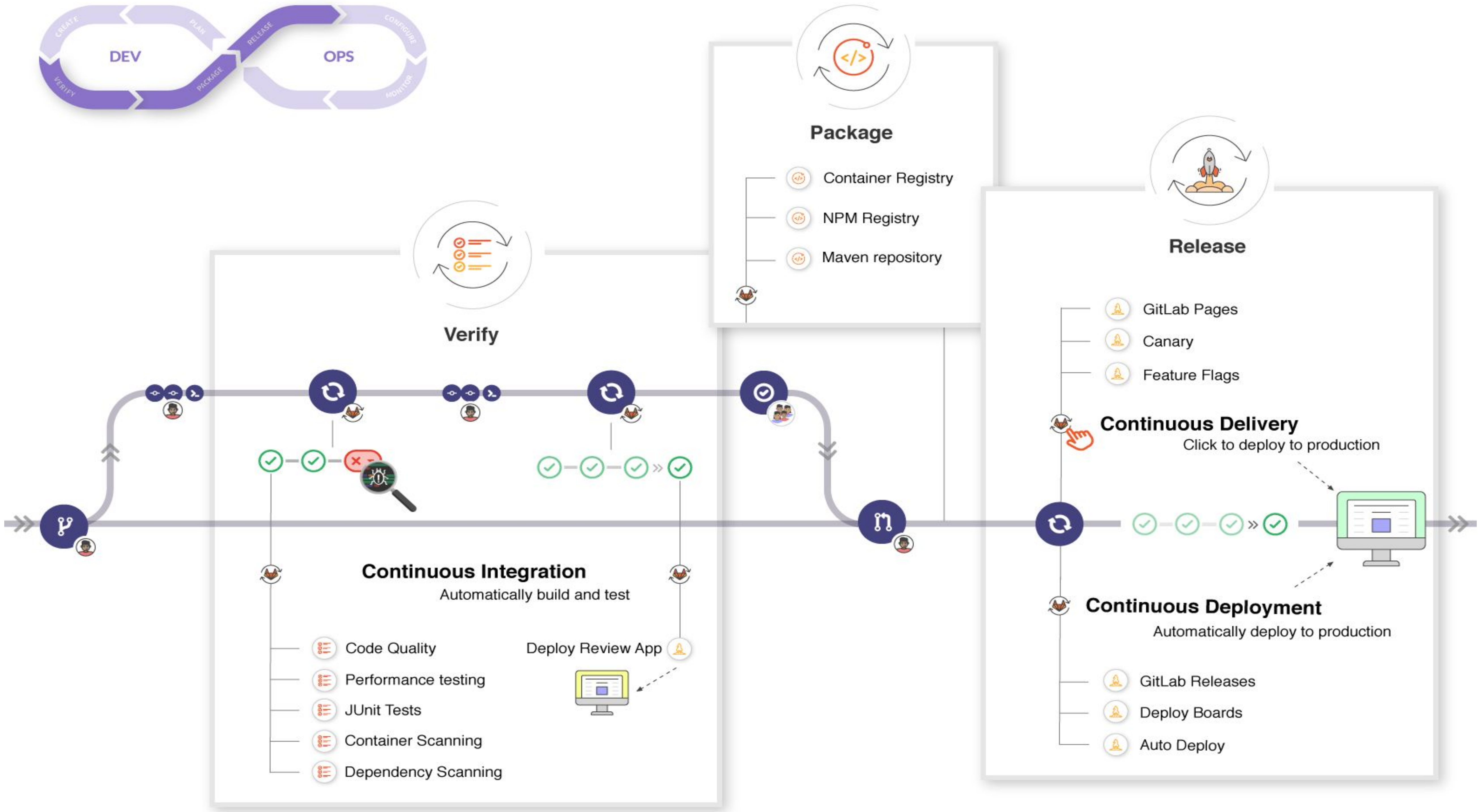
```
src/main/java/com/wsdjeg/mysqlvim/MVRequest.java|16 error| unclosed string literal
src/main/java/com/wsdjeg/mysqlvim/MVRequest.java|19 error| ';' expected
src/main/java/com/wsdjeg/mysqlvim/MVRequest.java|25 error| ';' expected
src/main/java/com/wsdjeg/mysqlvim/MVRequest.java|31 error| ';' expected
```

```
[in]: mysqlvim/
▾ src/
 ▾ main/
  ▾ java/
   ▾ com/
    ▾ wsdjeg/
     ▾ mysqlvim/
      ▹ actions/
      ▹ client/
      ▹ dao/
      ▹ server/
      ▹ service/
      ▹ util/
        MVRequest.java
        MysqlVi.java
        SQLUtils.java
        UserInfo.java
 ▹ test/
▹ target/
 pom.xml
```

Реализация, рекомендованная Gitlab CI



Расширенная реализация



Package

- Container Registry
- NPM Registry
- Maven repository

Verify

Continuous Integration
Automatically build and test

- Code Quality
- Performance testing
- JUnit Tests
- Container Scanning
- Dependency Scanning

Deploy Review App

Release

- GitLab Pages
- Canary
- Feature Flags

Continuous Delivery
Click to deploy to production

Continuous Deployment
Automatically deploy to production

- GitLab Releases
- Deploy Boards
- Auto Deploy

Bugs

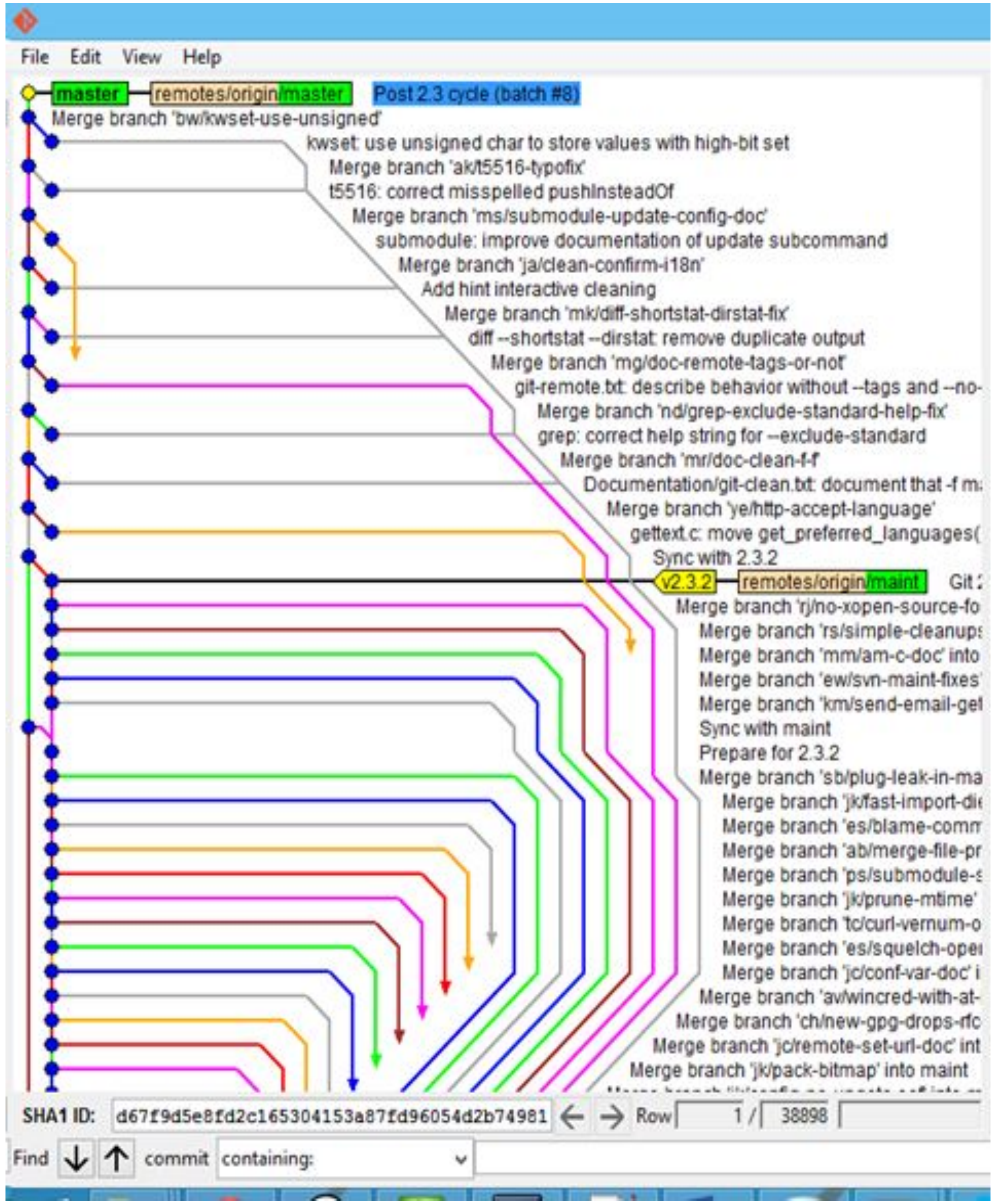
Code quality

Performance

Security

Мы для них, а не они для нас!

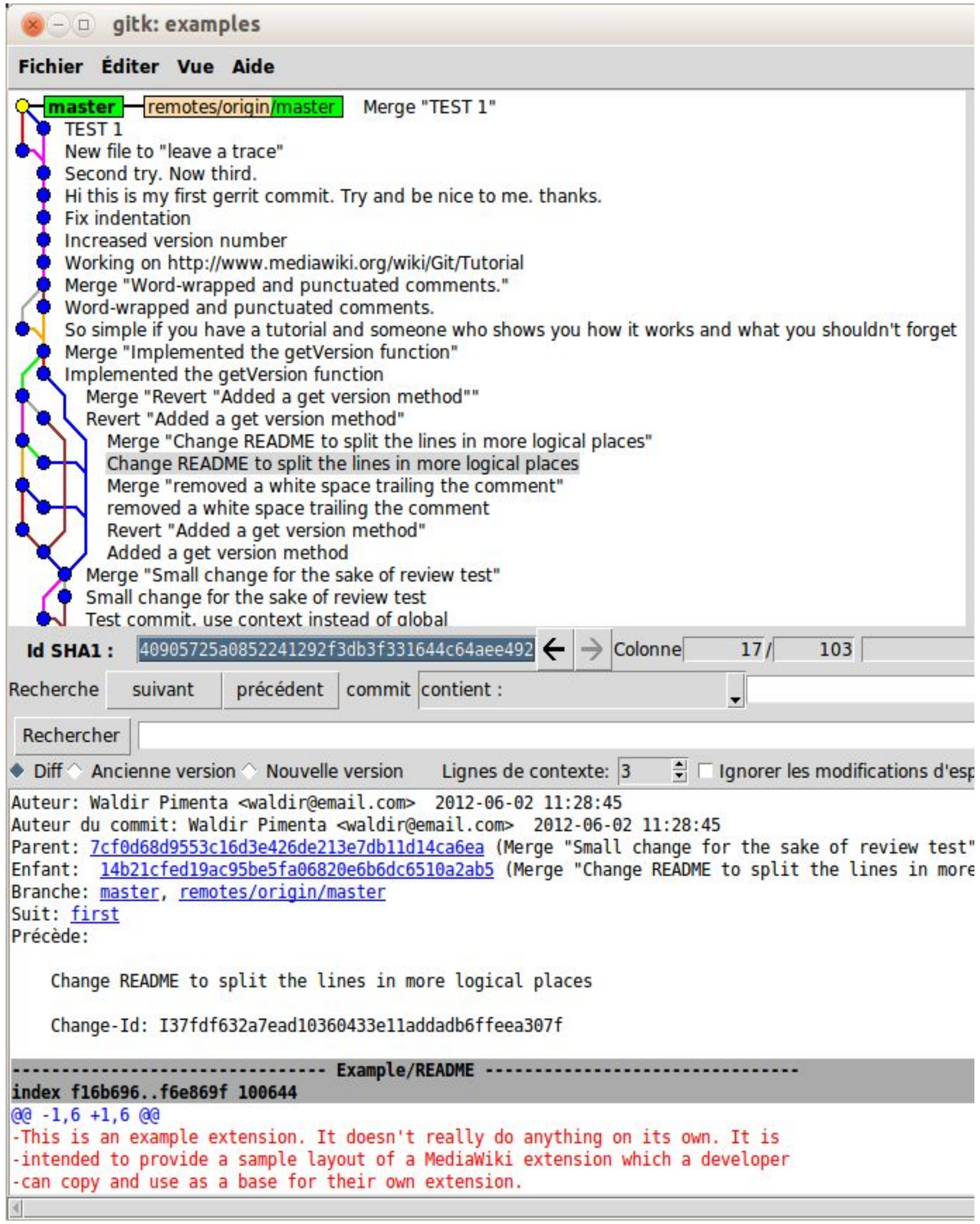
Merge hell



```
master  remotes/origin/master  Post 2.3 cycle (batch #8)
Merge branch 'bw/kwset-use-unsigned'
kwset: use unsigned char to store values with high-bit set
Merge branch 'ak/t5516-typofix'
t5516: correct misspelled pushInsteadOf
Merge branch 'ms/submodule-update-config-doc'
submodule: improve documentation of update subcommand
Merge branch 'ja/clean-confirm-i18n'
Add hint interactive cleaning
Merge branch 'mk/diff-shortstat-dirstat-fix'
diff --shortstat --dirstat: remove duplicate output
Merge branch 'mg/doc-remote-tags-or-not'
git-remote.txt: describe behavior without --tags and --no-
Merge branch 'nd/grep-exclude-standard-help-fix'
grep: correct help string for --exclude-standard
Merge branch 'mr/doc-clean-f-f'
Documentation/git-clean.txt: document that -f m
Merge branch 'ye/http-accept-language'
gettext.c: move get_preferred_languages(
Sync with 2.3.2
v2.3.2  remotes/origin/maint  Git 2
Merge branch 'rj/no-xopen-source-fo
Merge branch 'rs/simple-cleanups
Merge branch 'mm/am-c-doc' into
Merge branch 'ew/svn-maint-fixes'
Merge branch 'km/send-email-get
Sync with maint
Prepare for 2.3.2
Merge branch 'sb/plug-leak-in-ma
Merge branch 'jk/fast-import-die
Merge branch 'es/blame-comm
Merge branch 'ab/merge-file-pr
Merge branch 'ps/submodule-s
Merge branch 'jk/prune-mtime'
Merge branch 'tc/curl-vernum-o
Merge branch 'es/squelch-oper
Merge branch 'jc/conf-var-doc' i
Merge branch 'av/wincred-with-at-
Merge branch 'ch/new-gpg-drops-rfc
Merge branch 'jc/remote-set-url-doc' int
Merge branch 'jk/pack-bitmap' into maint
```

SHA1 ID: d67f9d5e8fd2c165304153a87fd96054d2b74981   Row 1 / 38898

VS



```
master  remotes/origin/master  Merge "TEST 1"
TEST 1
New file to "leave a trace"
Second try. Now third.
Hi this is my first gerrit commit. Try and be nice to me. thanks.
Fix indentation
Increased version number
Working on http://www.mediawiki.org/wiki/Git/Tutorial
Merge "Word-wrapped and punctuated comments."
Word-wrapped and punctuated comments.
So simple if you have a tutorial and someone who shows you how it works and what you shouldn't forget
Merge "Implemented the getVersion function"
Implemented the getVersion function
  Merge "Revert "Added a get version method""
  Revert "Added a get version method"
    Merge "Change README to split the lines in more logical places"
    Change README to split the lines in more logical places
    Merge "removed a white space trailing the comment"
    removed a white space trailing the comment
    Revert "Added a get version method"
    Added a get version method
  Merge "Small change for the sake of review test"
  Small change for the sake of review test
  Test commit. use context instead of global
```

Id SHA1 : 40905725a0852241292f3db3f331644c64aee492   Colonne 17 / 103

Lignes de contexte: 3

```
Auteur: Waldir Pimenta <waldir@email.com>  2012-06-02 11:28:45
Auteur du commit: Waldir Pimenta <waldir@email.com>  2012-06-02 11:28:45
Parent: 7cf0d68d9553c16d3e426de213e7db11d14ca6ea (Merge "Small change for the sake of review test"
Enfant:  14b21cfed19ac95be5fa06820e6b6dc6510a2ab5 (Merge "Change README to split the lines in more
Branche: master, remotes/origin/master
Suit: first
Précède:

    Change README to split the lines in more logical places

    Change-Id: I37fdf632a7ead10360433e11addadb6ffeea307f

------------------------------- Example/README -------------------------------
index f16b696..f6e869f 100644
@@ -1,6 +1,6 @@
-This is an example extension. It doesn't really do anything on its own. It is
-intended to provide a sample layout of a MediaWiki extension which a developer
-can copy and use as a base for their own extension.
```

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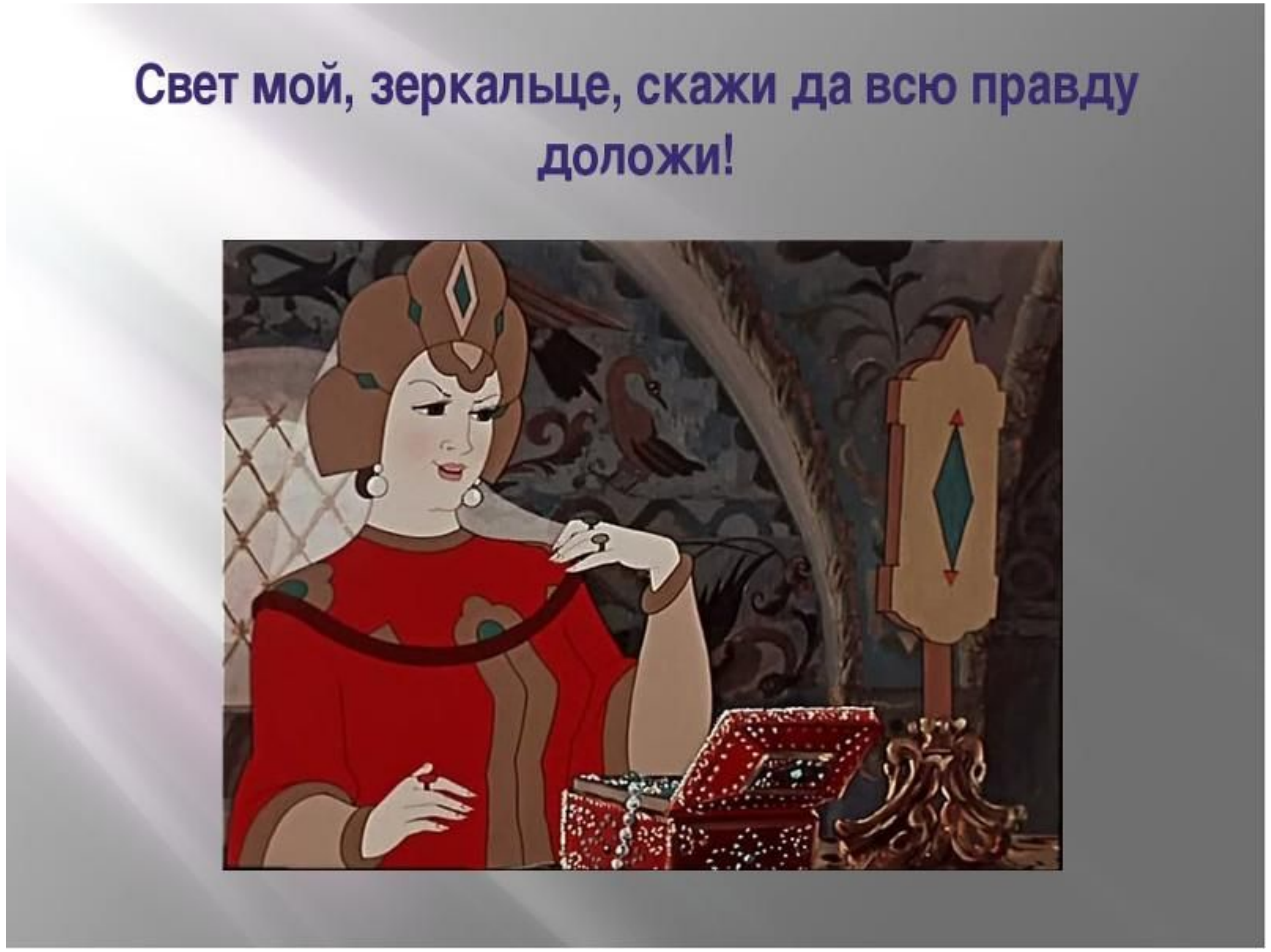
Метрики

Сложно оценить самого себя, нужна оценка со стороны, и для нас это — метрики



Свет мой, зеркальце, скажи да всю правду доложи!

Skillbox

Критерий времени работы CI — 1 чашка кофе

Важно следить за тем, сколько времени отрабатывает ваша система

Итог

- Теория
- Пример
- Merge hell
- Ключевая метрика
- Как влиять на метрику