



**How to become an Eclipse
committer in ~~20~~ minutes and
to fork the Eclipse IDE**

15

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**Eclipse committer
(Platform, e4)**



**First lets become a committer
Then fork the Eclipse IDE**





Join the
Eclipse Open
Source project

It's fun and you learn something
new



You can build a career
on Open Source



Your business depends on this
feature, you really need it...

Btw. did you know that e4 is far more modular compared to 3.x! Most of the time you do not have to touch its code.

But if you have to, it is really extensible.

...some things still require a code
change

Git
Tycho
CBI
Gerrit



Open or find an (existing) bug in Bugzilla

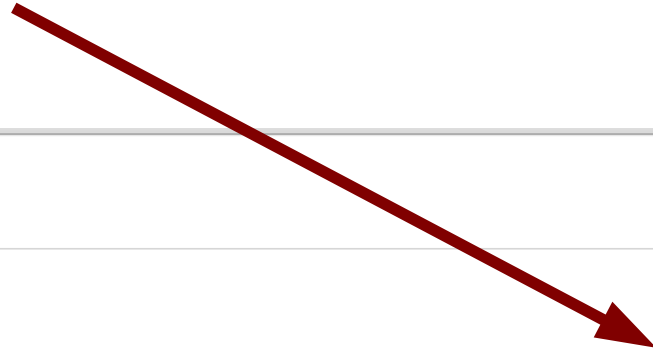
search for "helpwanted" keyword

(bug == enhancement/feature)

Eclipse source

<http://git.eclipse.org>

Search box



Eclipse.org Git repositories

To use Git in Eclipse, check out the EGit project.

[index](#) [about](#)

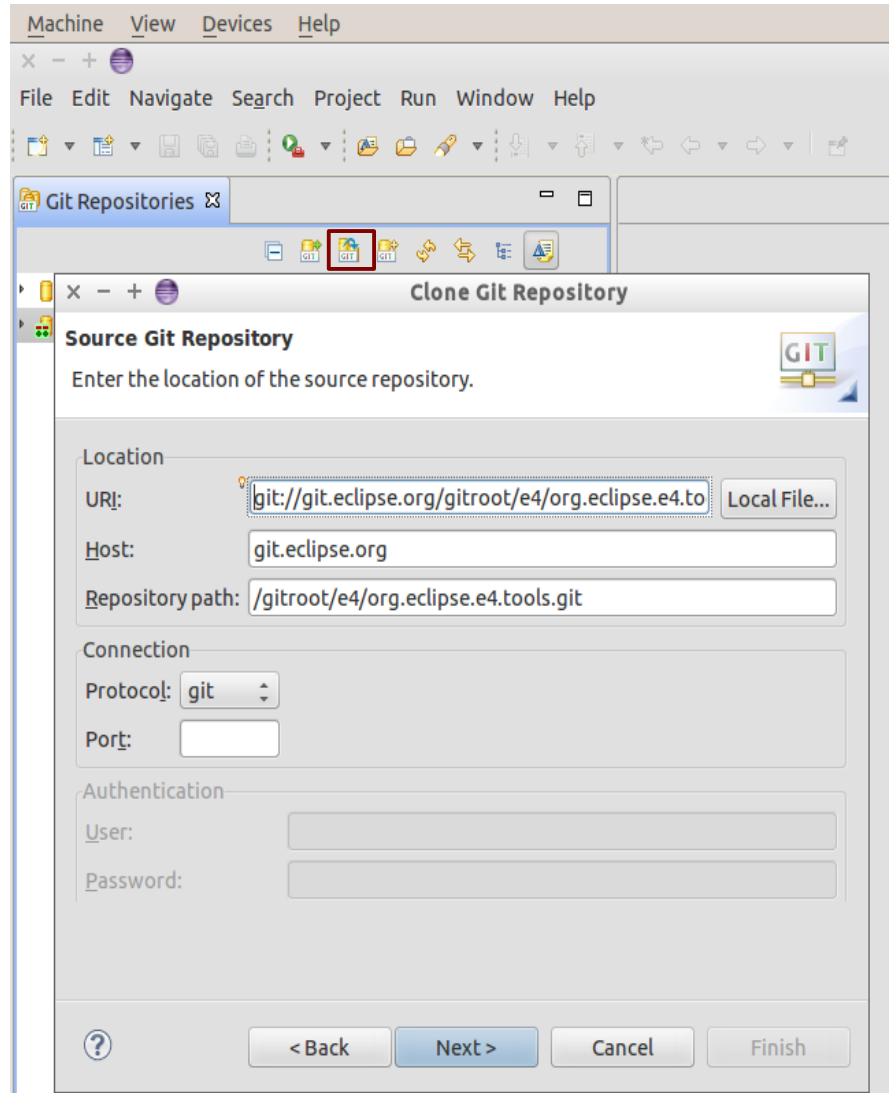
This is a web interface for Eclipse Git repositories. You can also [browse our SVN repositories](#). For more information about Git, please see the [Git Wiki page](#).

The contents of the Git repositories are made available under the terms and conditions of the [Eclipse.org Software User Agreement](#).

Name	Description	Owner	Idle
<i>e4</i>			
eclipse.platform.runtime.e4.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	21 months
eclipse.platform.ui.compat.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	21 months
eclipse.platform.ui.e4.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	21 months
org.eclipse.e4.databinding.git		Paul Webster	13 days
org.eclipse.e4.deeplink.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	10 months
org.eclipse.e4.installer.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	2 years
org.eclipse.e4.languages.git		Paul Webster	4 weeks
org.eclipse.e4.releng.git	The E4 releng repo	Paul Webster	19 hours
org.eclipse.e4.resources.git		Paul Webster	6 weeks
org.eclipse.e4.search.git	Unnamed repository; edit this file 'description' to name the repository.	Paul Webster	4 weeks
org.eclipse.e4.tools.git		Paul Webster	35 hours

Might want to use Gerrit repo url directly?

Git clone



You fix and you commit

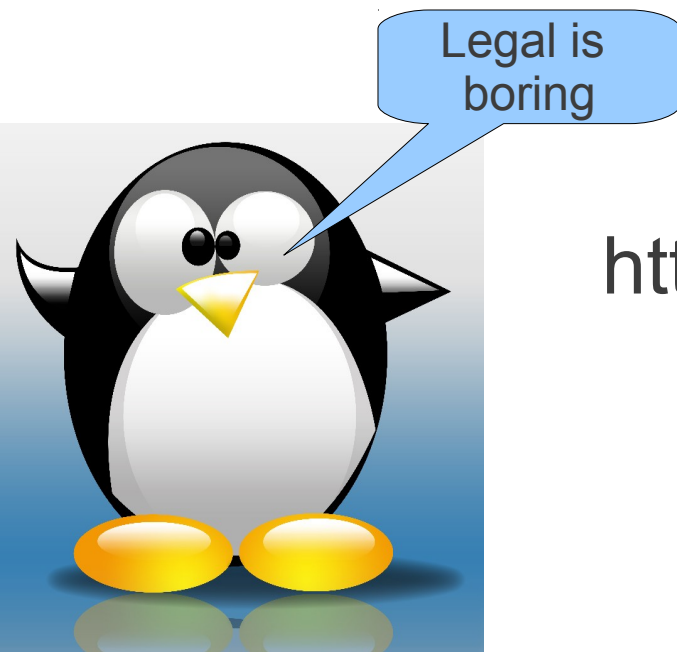
(locally)

**Now you are
a committer**



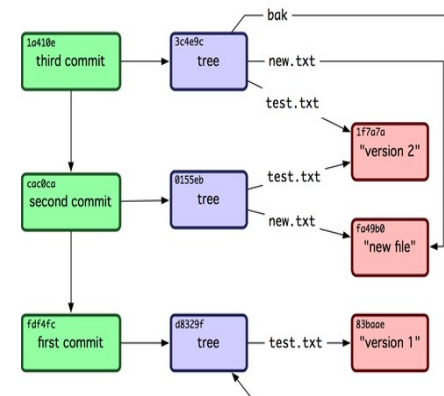
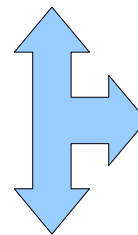
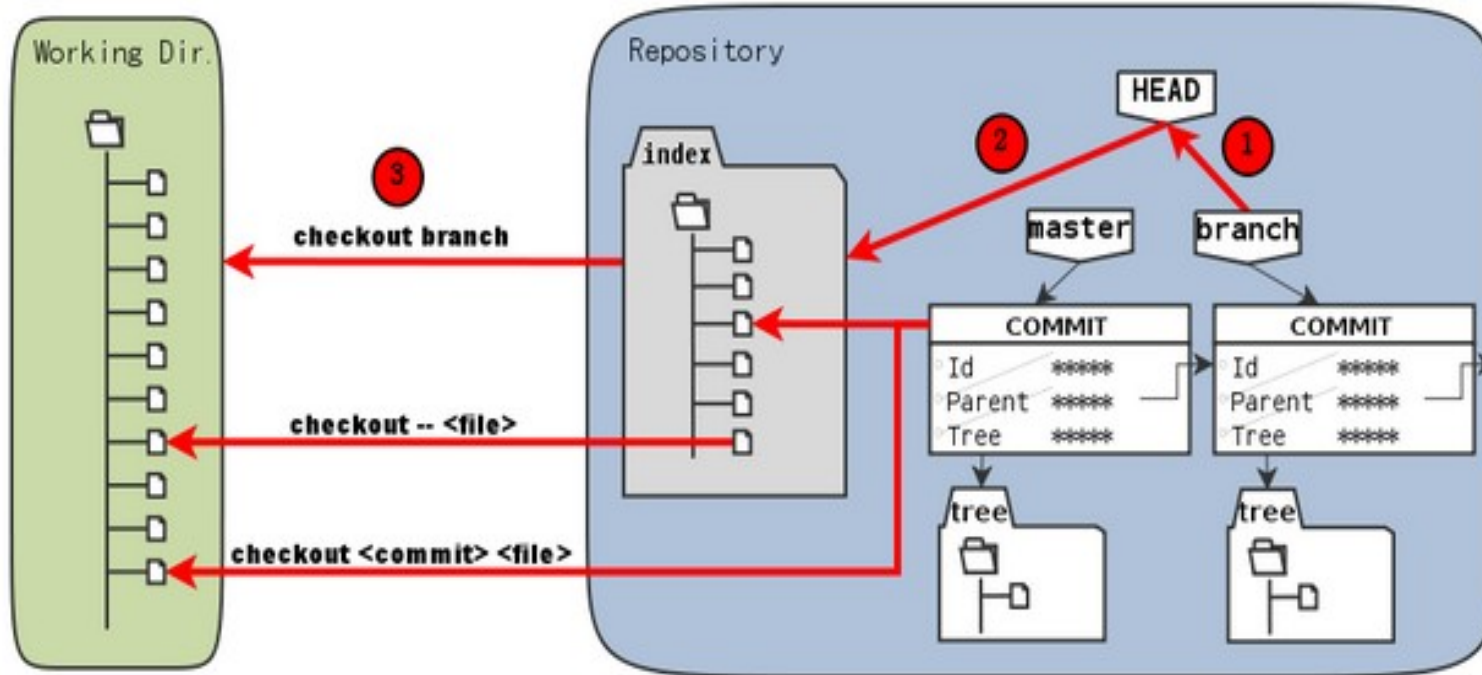
Create an EF account & sign the CLA

https://dev.eclipse.org/site_login/createaccount.php



<http://www.eclipse.org/legal/clafaq.php>

push change req to gerrit



push change req to gerrit



<http://www.vogella.com/articles/Gerrit/article.html#eclipsegerritcontribution>

rinse and repeat until accepted

The **Change-Id** is what uniquely identifies the change in Gerrit



But, your patch or
Gerrit request still
hasn't been reviewed...

...if you can't wait for upstream



Past

Present

Future

Fork you!



Yeah!



Build your own Eclipse IDE



All the cool kids are
forking
Eclipse these days

Build Eclipse IDE

clone

```
git clone -b master --recurse-submodules \  
git://git.eclipse.org/gitroot/platform/eclipse.platform.releng.aggregator.git
```

fix manifest.mf to pom.xml versions (optional)

```
cd eclipse.platform.releng.aggregator/  
mvn -Dtycho.mode=maven -Dmaven.repo.local=${WORKSPACE}/.repository  
org.eclipse.tycho:tycho-versions-plugin:update-pom
```

clean up "dirt" from previous build

```
git submodule foreach git clean -f -d -x  
git submodule foreach git reset --hard HEAD  
git clean -f -d -x  
git reset --hard HEAD
```

update all submodules

```
git checkout master  
git pull --recurse-submodules  
git submodule update
```

run the build

```
mvn clean verify
```

<http://www.vogella.com/articles/Eclipse4Source/article.html#buildeclipse>

Simpler

clone

```
git clone
```

```
git://git.eclipse.org/gitroot/platform/eclipse.platform.releng.aggregator.git
```

update master and submodules

```
git checkout master
```

```
git pull --recurse-submodules
```

```
git submodule update
```

run the build

```
mvn clean verify
```


Even more simple

clone

git clone

git://git.eclipse.org/gitroot/platform/eclipse.platform.releng.aggregator.git

build

./script/build.sh

Or simpler

clone

```
git clone
```

```
git://git.eclipse.org/gitroot/platform/eclipse.platform.releng.aggregator.git
```

Read the README file

build

```
./script/build.sh
```

Apply modification

1. Fork Eclipse repo at e.g. Github
2. Push your changes to your repo
3. Merge your changes into your local Eclipse repo before the build

Aggregation of other components currently partially supported by Tycho

See https://bugs.eclipse.org/bugs/show_bug.cgi?id=361722

Installing additional components into your custom build

```
eclipse \  
-application org.eclipse.equinox.p2.director \  
-noSplash \  
-repository \  
http://download.eclipse.org/releases/kepler \  
-installIU   
org.eclipse.egit.feature.group,\  
org.eclipse.jgit.feature.group,\  
org.eclipse.emf.sdk.feature.group,\  
org.eclipse.mylyn_feature.feature.group,\  
org.eclipse.wst.xml_ui.feature.feature.group,\  
org.eclipse.mylyn.java_feature.feature.group,\  
org.eclipse.mylyn.pde_feature.feature.group
```

We present to you...
Your custom Eclipse IDE build

Where to go from here

<http://wiki.eclipse.org/CBI> Eclipse IDE CBI Build

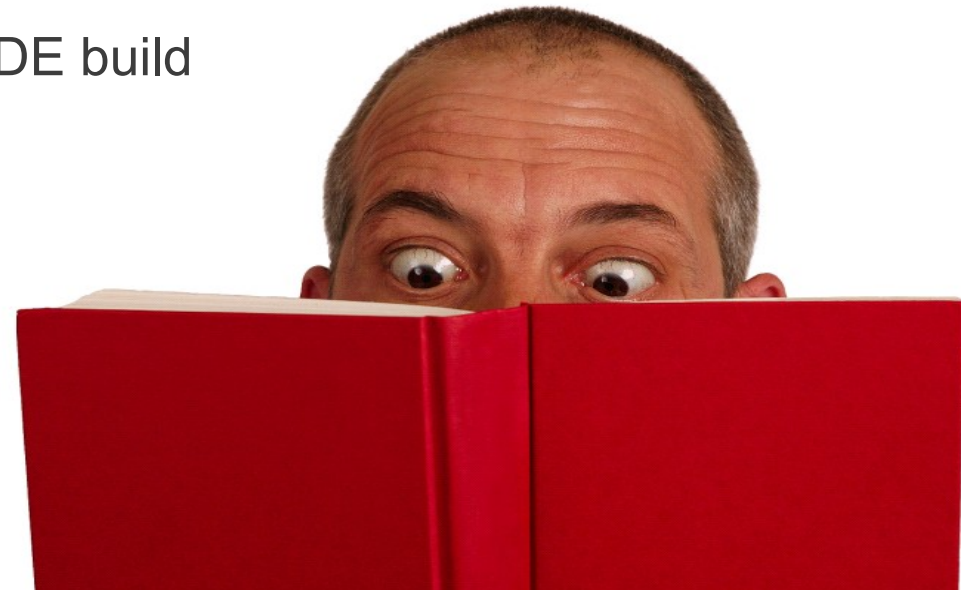
<http://www.vogella.com/articles/Git/article.html> Git tutorial

<http://www.vogella.com/articles/Gerrit/article.html> Gerrit tutorial

<http://www.vogella.com/articles/EGit/article.html> EGit tutorial

<http://www.vogella.com/articles/EclipseTycho/article.html> EclipseTycho tutorial

<http://www.voclipse.com/> voclipse (custom) IDE build



For the love of Pete!
I fix this bug!



Thank you

For further questions:

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<http://www.vogella.com>



Eclipse Hackathon Hamburg

coming soon to a city near you...

...Hamburg Hackathon in
22. November 2013!!!

<http://goo.gl/TFacMu>