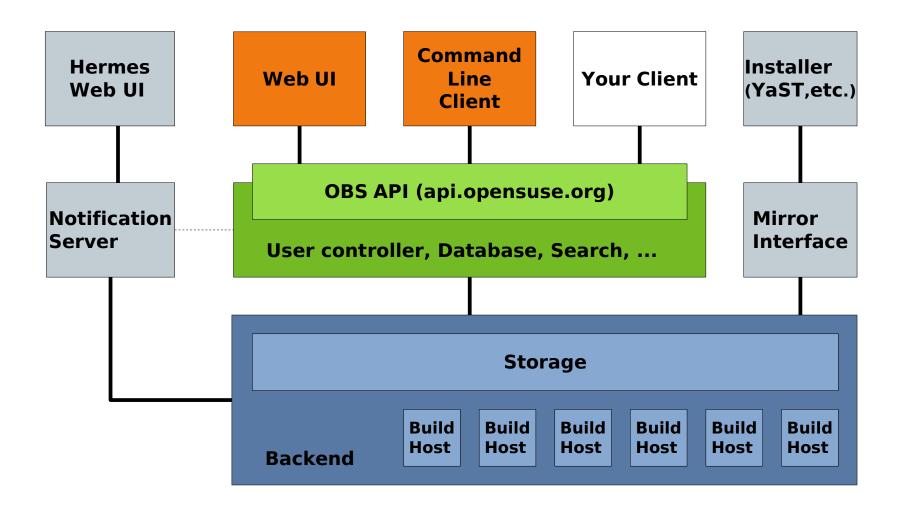
# **Open Build Service (OBS)**

Packager Workshop

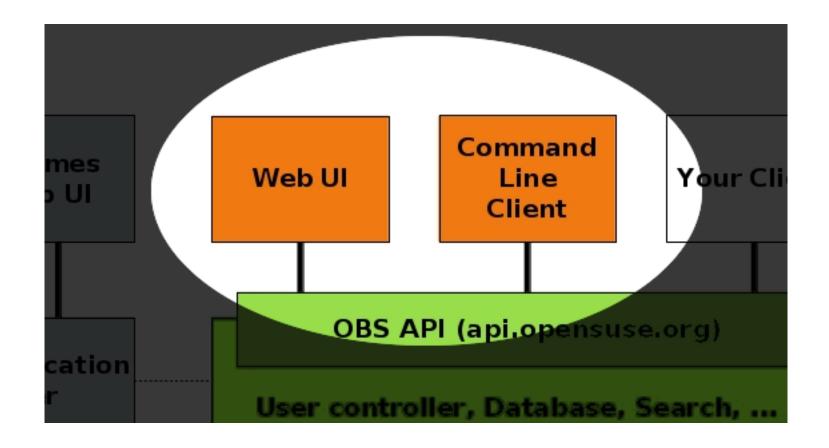


# A Packagers OBS Tools

### **Components Overview**

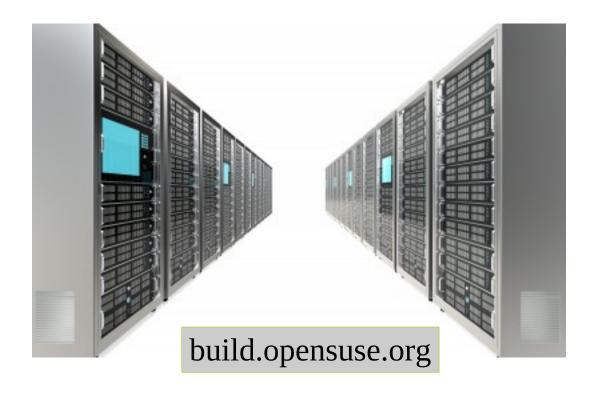


### A Packagers OBS Tools

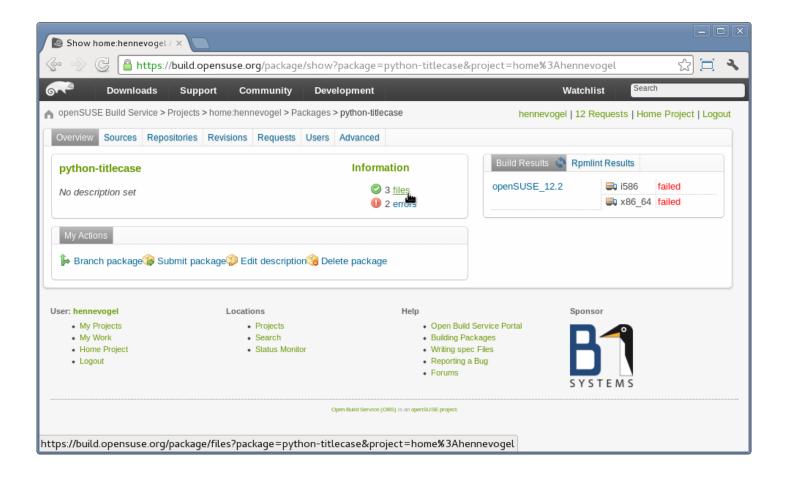


### A Packagers OBS Tools

### **Reference Server**



# A Packagers OBS Tools Web Client



# A Packagers OBS Tools

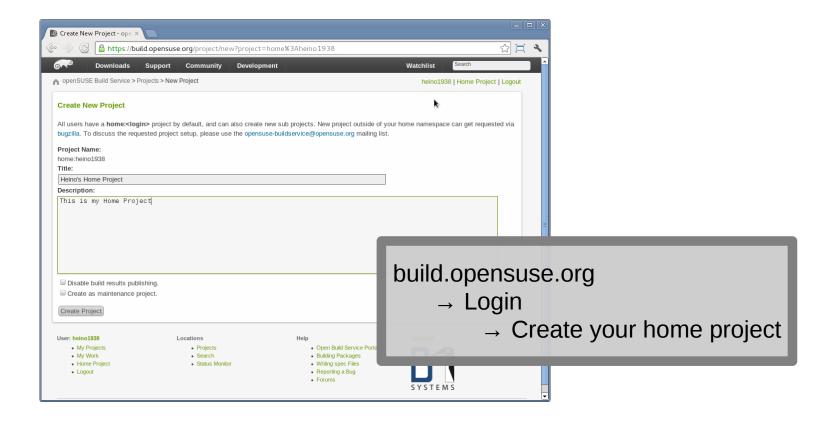
```
hvogel@g124: ~/Development/Packaging/obs/home:hennevogel/python-titlecase
hvogel@g124 $ ls
python-titlecase-ez setp remove.patch python-titlecase.spec titlecase-0.5.1.tar.gz
hvogel@g124 $ osc build openSUSE 12.2
Building python-titlecase.spec for openSUSE 12.2/i586
Getting buildinfo from server and store to /home/hvogel/Development/Packaging/obs/home:h
ennevogel/python-titlecase/.osc/ buildinfo-openSUSE 12.2-i586.xml
Getting buildconfig from server and store to /home/hvogel/Development/Packaging/obs/home
:hennevogel/python-titlecase/.osc/ buildconfig-openSUSE 12.2-i586
Jpdating cache of required packages
0.0% cache miss. 113/113 dependencies cached.
Skipping verification of package signatures
Writing build configuration
Running build
logging output to /home/hvogel/.tmp/osc/openSUSE 12.2-i586/.build.log...
     Os] Memory limit set to 6719176KB
```

http://openbuildservice.org/download

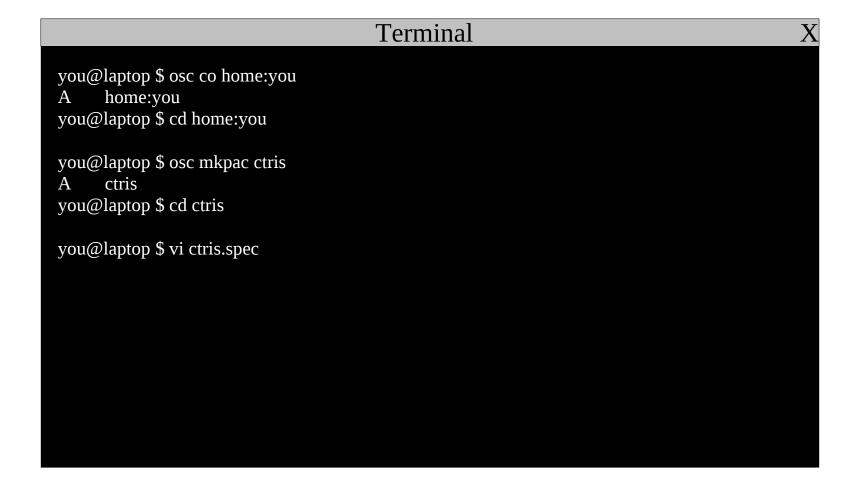
- Create a package
- ✓ in your own home project
- ✓ on the reference server



# Creating Packages Create your home project



### Create a new package



#### Write a specfile

Name: ctris

Summary: Console based Tetris clone http://www.hackl.dhs.org/ctris/

icense: GPL

Group: Amusements/Games/Action/Arcade

Version: 0.42 Release: 1

Source: %{name}-%{version}.tar.bz2

BuildRoot: %{\_tmppath}/%{name}-%{version}-build

BuildRequires: ncurses-devel

Requires: ncurses

#### %description

An ASCII version of the well known game Tetris

#### %prep

**%setup** -q

#### %build

make

#### %install

make install DESTDIR=\$RPM\_BUILD\_ROOT

%debug\_package

#### %clean

rm -rf \$RPM\_BUILD\_ROOT;

#### %files

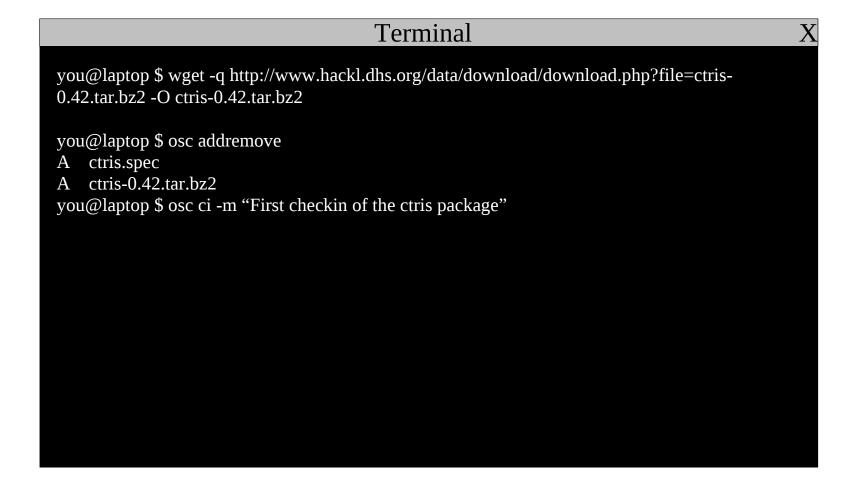
%defattr (-,root,root)

%doc AUTHORS COPYING README TODO

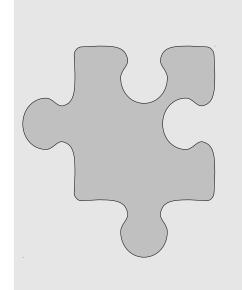
**%doc** %[\_mandir]/man6/ctris.6.gz

/usr/games/ctris

#### Create a new package



# Creating Packages Playtime



Try some stuff on your own:

Import an RPM package with osc importsrcpkg

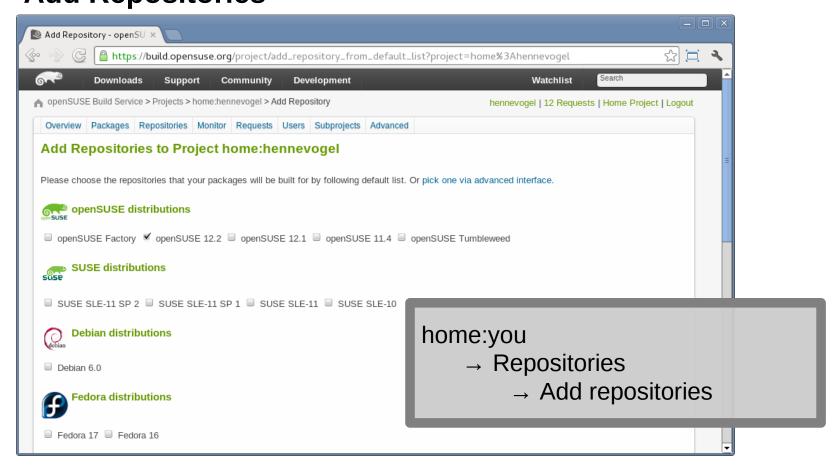
Copy an existing package with osc copypac

# **Building Packages**

### **Building Packages**

- ✓ locally on your laptop
- ✓ and on the reference server

# **Building Packages**Add Repositories



# **Building Packages**Local Builds

#### **Terminal** you@laptop \$ osc build Building ctris.spec for openSUSE\_12.2/i586 Getting buildinfo from server and store to /home/you/home:you/ctris/.osc/\_buildinfoopenSUSE 12.2-i586.xml Getting buildconfig from server and store to /home/you/home:you/ctris/.osc/\_buildconfigopenSUSE\_12.2-i586 Updating cache of required packages 0.0% cache miss. 109/109 dependencies cached. Verifying integrity of cached packages using keys from openSUSE:12.2 Writing build configuration Running build logging output to /var/tmp/build-root/.build.log...

# **Building Packages**Local Builds for foreign distributions

#### **Terminal**

X

you@laptop \$ osc build Fedora\_17

Building ctris.spec for Fedora\_17/i586

Getting buildinfo from server and store to /home/heino/home:heino1938/ctris/.osc/\_buildinfo-Fedora 17-i586.xml

Getting buildconfig from server and store to /home/heino/home:heino1938/ctris/.osc/\_buildconfig-Fedora 17-i586

Updating cache of required packages

0.0% cache miss. 204/204 dependencies cached.

Verifying integrity of cached packages using keys from Fedora:17 Writing build configuration Running build

logging output to /var/tmp/build-root/.build.log...

### **Building Packages**

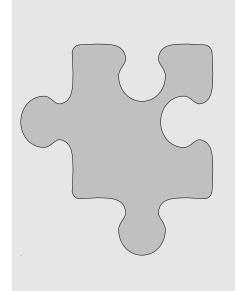
### **Checking build results**

```
Terminal
you@laptop $ osc results
Fedora 17 i586
                     failed
Fedora_17 x86_64
                     failed
openSUSE_12.2 i586
                           succeeded
openSUSE_12.2 x86_64 succeeded
you@laptop $ osc prjresults
ctris
F Fedora_17 i586 (published)
F Fedora_17 x86_64 (published)
. openSUSE_12.2 i586 (published)
. openSUSE_12.2 x86_64 (published)
```

# **Building Packages**Checking build logs



# **Building Packages**Playtime



Try some stuff on your own:

Examine other projects with osc pr some:project

Examine the build root with osc chroot

## Collaborating on Packages

### **Collaborating on Packages**

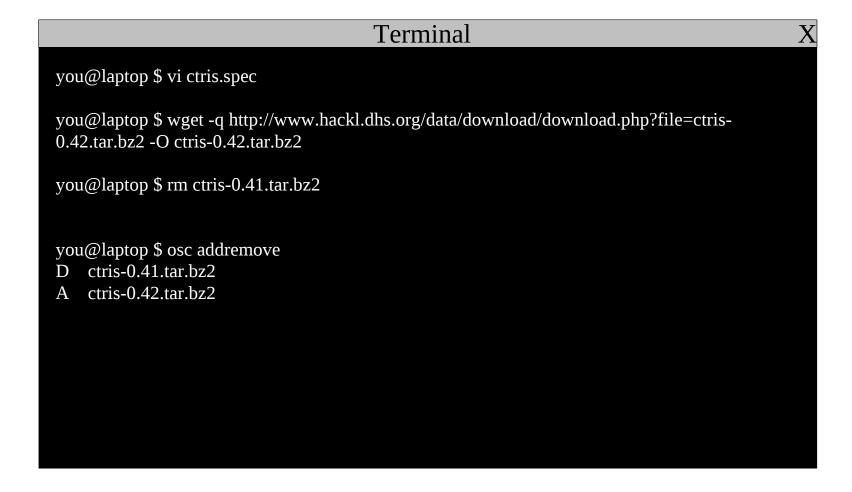
3

- √ Branch a package
- Submit a merge request
- Review a merge request

# **Collaborating on Packages Branching**

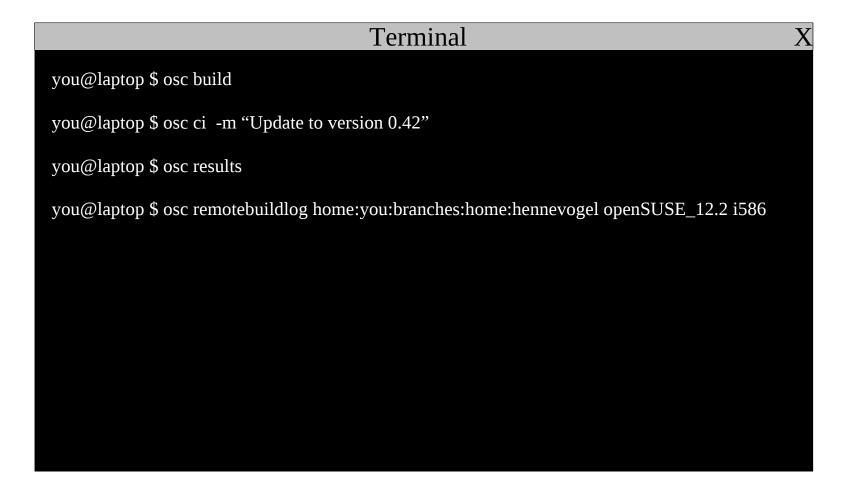
### **Terminal** vou@laptop \$ osc branch home:hennevogel ctris A working copy of the branched package can be checked out with: osc co home:you:branches:home:hennevogel/ctris you@laptop \$ osc co home:you:branches:home:hennevogel/ctris home:you:branches:home:hennevogel home:you:branches:home:hennevogel/ctris home:you:branches:home:hennevogel/ctris/ctris-0.41.tar.bz2 home:you:branches:home:hennevogel/ctris/ctris.changes home:you:branches:home:hennevogel/ctris/ctris.spec At revision 2e6f2aea1a884fda8c6e9564c9323ab3. vou@laptop \$ cd home:you:branches:home:hennevogel

# Collaborating on Packages Updating

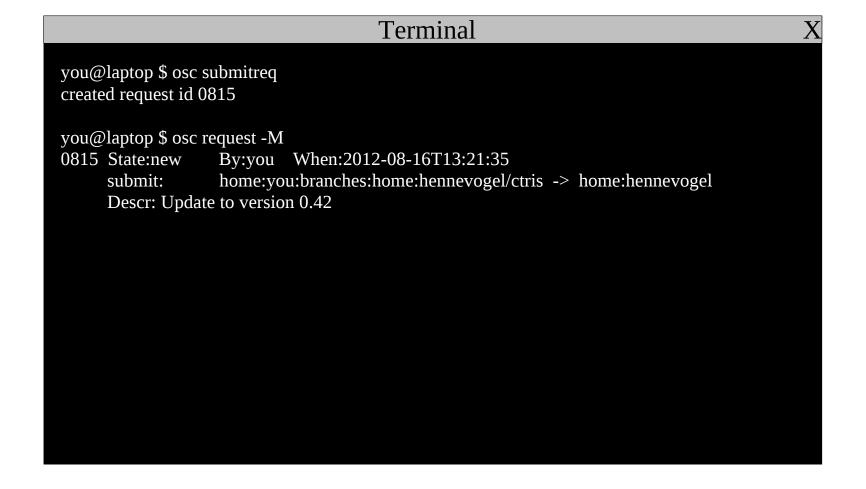


### **Collaborating on Packages**

#### **Testing your changes**



# Collaborating on Packages Submitting changes



### **Collaborating on Packages**

#### **Assess Requests**

#### **Terminal**

X

hennevogel@work \$ osc request list home:hennevogel

0815 State:new By:you When:2012-08-16T13:21:35

submit: home:you:branches:home:hennevogel/ctris -> home:hennevogel

Descr: Update to version 0.42

hennevogel@work \$ osc request accept 0815 -m "Thank you for your contribution :-)"

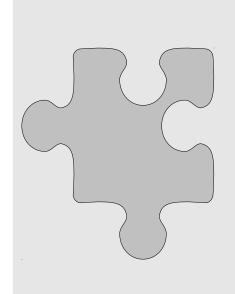
Result of change request state: ok

### **Collaborating on Packages**

#### **Tracking request**



# Collaborating on Packages Playtime



Try some stuff on your own:

Branch/submit a new package with osc branch -N

Track a request for openSUSE osc request list openSUSE:Factory

# Learn more about the Open Build Service www.openbuildservice.org

Thank you.



