

Xcos Automatic Layout

Preparation

Name: Chenfeng Zhu
Mentor: Mr. David Clément
Mentor: Mr. Paul Bignier

1 Git and Gerrit

Reference Link is: <http://wiki.scilab.org/gerrit>.

1.1 Access to GIT/Codereview

- 1) Registration on gerrit
With an account on Scilab or ATOMS, log in <http://codereview.scilab.org/>. if it does not work, contact with [Dominique](#).
- 2) Create a SSH key
`ssh-keygen -t rsa -f ~/.ssh/id_rsa`
Add this public key to the Settings on codereview.
Send this key to Scilab's admin and tell him the relative branches.
- 3) Test whether the key is valid and available:

```
zhuzhu@zhuzhu-vbUbuntu14:~/.ssh$ ssh git.scilab.org
The authenticity of host '[git.scilab.org]:29418 ([193.51.192.152]:29418)' can't
be established.
RSA key fingerprint is 24:97:e7:89:fa:28:f4:be:57:e5:18:38:97:13:a5:46.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[git.scilab.org]:29418,[193.51.192.152]:29418' (RSA)
to the list of known hosts.
Permission denied (publickey).
zhuzhu@zhuzhu-vbUbuntu14:~/.ssh$
```

```
zhuzhu@zhuzhu-vbUbuntu14:~$ ssh git.scilab.org
Enter passphrase for key '/home/zhuzhu/.ssh/id_rsa':

**** Welcome to Gerrit Code Review ****

Hi Chenfeng Zhu, you have successfully connected over SSH.

Unfortunately, interactive shells are disabled.
To clone a hosted Git repository, use:

git clone ssh://zhuchenf@git.scilab.org:29418/REPOSITORY_NAME.git

Connection to git.scilab.org closed.
zhuzhu@zhuzhu-vbUbuntu14:~$
```

1.2 Getting the repository

Use git to get the repository:

```
git clone ssh://zhuchenf@git.scilab.org:29418/scilab.git
<name_of_directory>
```

Manage my repository:

```
git checkout origin/xcos-layout
```

Others:

```
git branch [-r]
git config user.name "Chenfeng Zhu"
git config user.email "zhuchenf@gmail.com"
git log
git add <my_file>
```

```
zhuzhu@zhuzhu-vbUbuntu14:/usr/workspace/scilab_src$ git branch
* (detached from origin/xcos-layout)
master
```

```
zhuzhu@zhuzhu-vbUbuntu14:/usr/workspace/scilab_src$ git log
commit ee6e4f420115ee206a75c41382970daf89f71f78
Merge: a32a2fa 2103082
Author: Vincent COUVERT <vincent.couvert@scilab-enterprises.com>
Date: Thu May 7 10:06:03 2015 +0200

    Merge remote-tracking branch 'origin/5.5'

    Change-Id: I1ff3668b0dc4b4bbb7a4cdb8e6995c3f9269914d

commit 2103082c9346eb2927b4093281438449a50a542b
Author: Clément DAVID <clement.david@scilab-enterprises.com>
Date: Wed May 6 08:43:13 2015 +0200

    Update the javadoc comments to "JEP 172: DocLint"

    Accordingly to the Javadoc team, the <br /> tag is not a valid HTML tag
    and it will generate an error at javadoc build with a recent JDK.

    Change-Id: Iae8fa8f2ea80a6da5938a0f5a70bb164d8da38a2
```

1.3 Setting up the Hooks

Change the git_hooks directory

```
git config --global hooks.xmlindent /usr/bin/xmlindent
git config --add xmlindent.ignored 'scilab/Visual-Studio-settings/*.xml'
git config --add xmlindent.ignored 'scilab/checkstyle/*.xml'
git config --global hooks.astyle /usr/bin/astyle
git config --add astyle.ignored 'scilab/modules/*/src/jni/*.hxx'
git config --add astyle.ignored 'scilab/modules/*/src/jni/*.cpp'
...
```

2 Personal Repository

Link: https://github.com/sampig/Scilab_zhu.

3 SSH Public Key

ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQDAshYIJbm7XeKiwBbNyP9/Rj8MI5gtRJnj2c/s
dIEW8sJ3NKGVEIzs5Lhsv9tDY5sGqTVzVcJgfaLkE4qqPT+AZ9nZqTDf1DO7TAJyrsO0vew
46tWpKlljsGfeNPOxJf9hVZRmtHAstS8TsD1o4p9fd9A335oQsLsrzguh+K5KE3IDDrDrl+z
HtILUGktNDAPnrQ61CUm95s5w2NyuMCZ1MjylFF+dsnndCyTbYOHZUVgVSBn1P4b1C
mjawJXCgQDW3pNMI8Nu8g10/7xHbeOy5HSGA0Ghi/9ZzSoMjZ/ULc5la7QEPFqyFfpF
EcHIY6psxCnV0qjpqXs0t/8/8L5P zhuzhu@ZHUZHU20140927
```

ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQDZlAco5Hcd6Z9x6bBDoUcFZXZit3qGXp49x
Zr8dx/OQt7KvuE2FAIMXreyfXEd4TiElz4o08nllj+DoKnOeix/mffY1VS087euPRb+DJ0Hm
jbuVPabikawzfZRZiH6m6NhEbPcgk2XwmNCQSmBNJYYK1OMJlVh8xtrci9M4vj3rVpGD
1UjiY7FJSZFeWjrcn0Oetsl+6gNNBODR/2dA9KYEhHaqREl+pYwCqabHVL4lp933uusq1C
XZwMBHkGVnAG4tR1hsi5tuMKhe1Wc6by9ww4HWDwEKPwl7JAfe726meNJRu5Hbx
OtjQ6ArPc6TA1RLI4XPQWGk25DuMUO67 zhuzhu@zhuzhu-vbUbuntu14
```