

Development environment

- Software versions
- How to setup environment
 - Git
 - Installing
 - Configuring
 - Alternatively
 - PyDev
 - Python and libraries
 - Adding python interpreter to eclipse
- Eclipse JIRA
 - Installing
 - Configuring the plugin
 - Add all JIRA tasks
 - Add all JIRA tasks assigned to you
 - JIRA time tracking
 - Enabling time tracking
 - Start work on an issue
 - Stopping work on an issue
- Eclipse GIT
 - Installing eGIT
 - Usage

The Jira server can be found at; <http://79.170.90.195:8080/>

Software versions

The development environment is located in the tools folder of the EEG Kiss SVN. Software versions and library versions are as follows:

Tool / Library	Version
Eclipse	Luna
Pydev plugin	-
Python	> 2.7
Numpy	1.9.0
Scipy	0.14.0
Pyside	1.2.2
Cython	0.21.2
Mne-EEG	0.9
Python pip	6.0.8

How to setup environment

Git

Installing

1. Download Git from <http://msysgit.github.io/>
2. Follow the installation procedure.

Configuring

1. Open Git bash [Start > Programs > Git > Git Bash]
2. Enter the following commands in the bash

```
$ mkdir EEG-KISS
$ cd EEG-KISS
$ git init
$ git remote add origin
https://[username]@bitbucket.org/fourtress/eeg-kiss.git
```

3. Now you have to fetch all the files that are in the repository. To do so, enter the following command:

```
$ git pull -u origin master
```

Alternatively

Using Git GUI (or any other graphical GIT tool):

1. Select Clone repository.
2. Enter Source Location: [https://\[username\]@bitbucket.org/fourtress/eeg-kiss.git](https://[username]@bitbucket.org/fourtress/eeg-kiss.git)
3. Enter Target Directory: `.../Workspace/EEG_Kiss`
4. Click Clone

PyDev

In eclipse luna, perform the following steps to install pydev (source:http://pydev.org/manual_101_install.html):

1. Click help -> install new software
2. Work with: <http://pydev.org/updates>
3. Press Enter
4. Check both pydev and pydev mylyn integration
5. Uncheck "contact all update sites during install to find required software"
6. Click next and follow the installation
7. If you get a warning regarding the certificate, make sure to accept the certificate

Python and libraries

1. Get the Python27EEG.zip file from the EEG kiss SVN Tools folder
2. Unzip this folder to your hard drive (this example uses C:\Python27EEG)
3. Open your path variables on your pc. You can do this two ways:
 - Control panel -> system and security -> system -> advanced system settings -> environment variables
 - Using a path editor. For example rapid environment editor (<http://www.rapidee.com/en/download>)
4. Add the following paths to environment-variable "PATH" (change path if you used a different location than C:\Python27EEG):
 - C:\Python27EEG\Scripts
 - C:\Python27EEG\
 - C:\Python27EEG\Lib\site-packages
5. **Note:** The environment-variable "PATH" must be in capitals, so edit the variable-name if this is not the case (i.e. "Path").
6. Pyserial is not yet added to this python package so open a command window and perform -> `python -m pip install pyserial`
7. Tkinter TTK is not yet added to this python package so open a command window and perform -> `python -m pip install ttk`
8. pybluez is not yet added to this python package so open a command window and perform -> `python -m pip install pybluez`

Adding python interpreter to eclipse

1. Open your eclipse luna
2. Open the EEG project
3. Right-click the project
4. Click properties
5. **PyDev** interpreter / grammar
6. Click the hyperlink with text "Click here to configure an interpreter not listed"
7. A new window will open
8. Click new
9. Interpreter name: **Python27EEG**
10. Interpreter executable: C:\Python27EEG\python.exe (change path if you used a different location than C:\Python27EEG)

11. Click apply
12. Click ok
13. Now under interpreter, select [Python27EEG](#)
14. Click apply
15. Click ok

Running

1. Now click the green run button of eclipse
2. The application should now start

Note: it might take some time for eclipse to setup the interpreter.

Eclipse JIRA

Installing

To install the eclipse JIRA plugin, follow this manual:

<https://confluence.atlassian.com/display/IDEPLUGIN/Installing+the+Eclipse+Connector>

Note: make sure to install both packages (the plugin and the mylyn integration)

Configuring the plugin

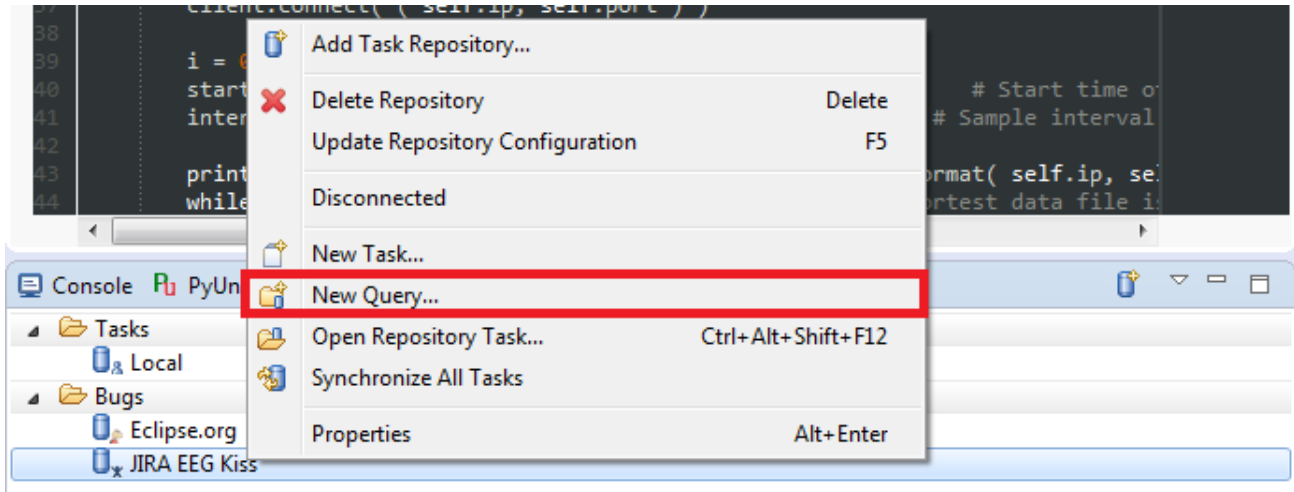
To configure the plugin, follow this manual:

<https://confluence.atlassian.com/display/IDEPLUGIN/Configuring+the+Eclipse+Connector>

Make sure to use the JIRA user credentials provided by Douwe, and using the server URL mentioned above.

Finally add a query to gather all the tasks from JIRA.

Add all JIRA tasks



Right click on the JIRA task repository and select "New Query..."

Edit Query

New JIRA Query

Please select a query type.

☒ Create query using form

☐ Use saved favorite filter from the repository

No filters found

☐ Predefined filter for selected project

All Projects
EEG_Kiss
Playground

Assigned to me
Reported by me
Added recently
Updated recently
Resolved recently

Update from Repository

? < Back Next > Finish Cancel

Now select "Create new query using form"..

Edit Query

Enter query parameters

Add search filters to define query.

Query Title: EEG_Kiss_all

Project: All Projects, EEG_Kiss, Playground

Type: Any, Bug, New Feature, Task, Improvement, Sub-task, Epic

Update Attributes from Repository

Text Search

Issue Details

Reported By: Any

Assigned To: Any

Status: Any, Open, In Progress, Reopened

Resolution: Any, Unresolved, Fixed, Won't Fix

Priority: Any, Blocker, Critical, Major

Components / Versions

Fix For: Any, No Fix Version, Released Versions, Unreleased Versions

In Components: Any, No Component

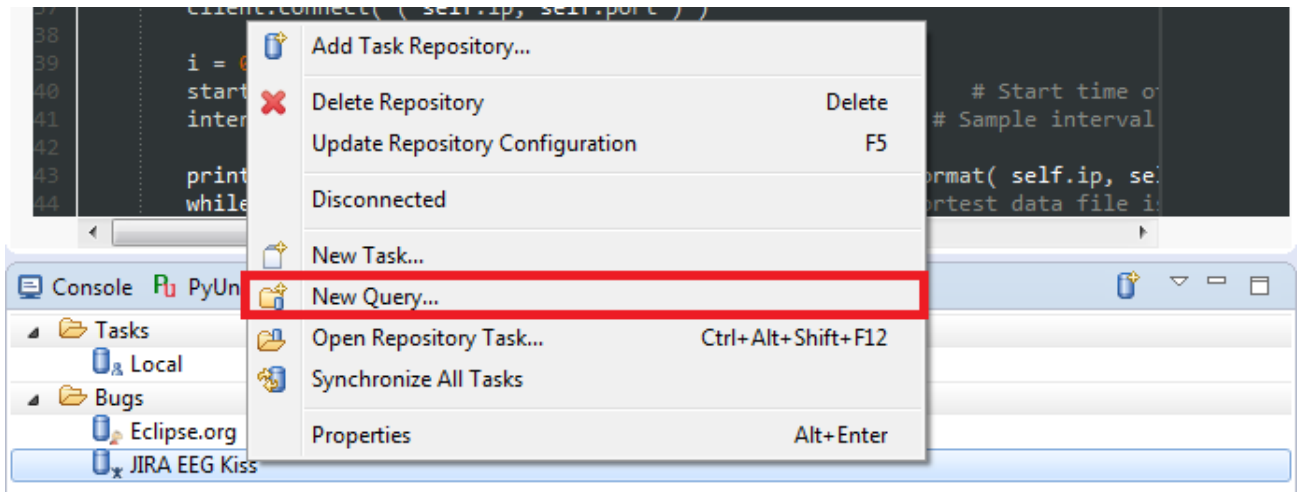
Affects Versions: Any, No Version, Released Versions, Unreleased Versions

Dates and Times

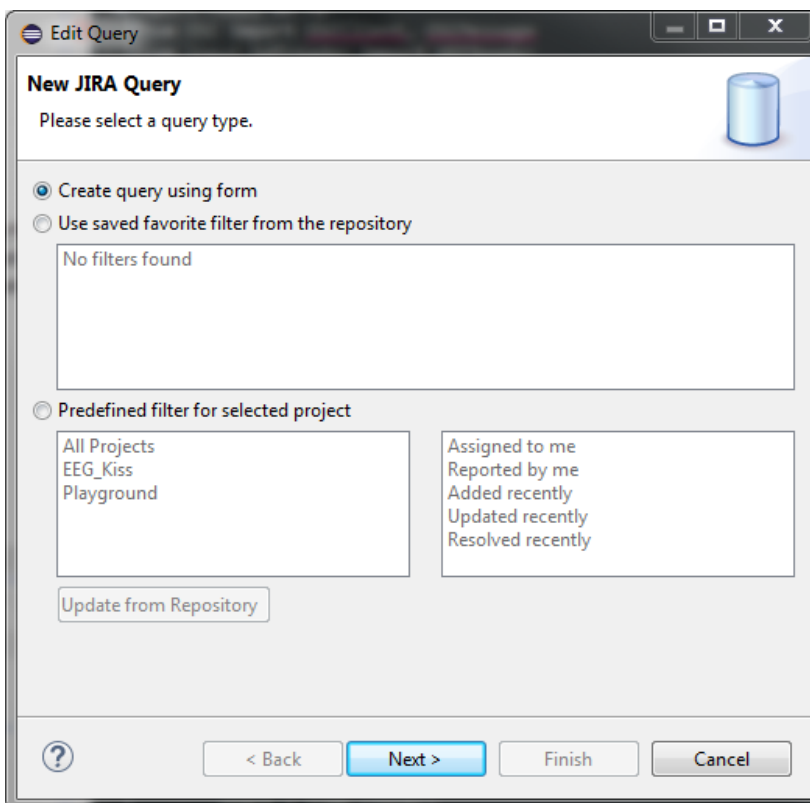
? < Back Next > Finish Cancel

Enter a name for the query (e.g. "EEG_Kiss_all") "All" "Finish".

Add all JIRA tasks assigned to you



Right click on the JIRA task repository and select "New Query..."



Now select "Create new query using form"..

Edit Query

Enter query parameters

Add search filters to define query.

Query Title: EEG_Kiss_myTasks

Project: EEG_Kiss

Type: Any

Update Attributes from Repository

Text Search

Issue Details

Reported By: Any

Assigned To: Current User

Status: Any

Resolution: Any

Priority: Any

Components / Versions

Fix For: Any

In Components: Any

Affects Versions: Any

Dates and Times

< Back Next > Finish Cancel

Enter a name for the query (e.g. "EEG_Kiss_myTasks" "Current User" "Assigned To" field in the "Issue Details". Then press "Finish".

JIRA time tracking

The eclipse plugin can track your working time, but this functionality is not enabled by default.

Enabling time tracking

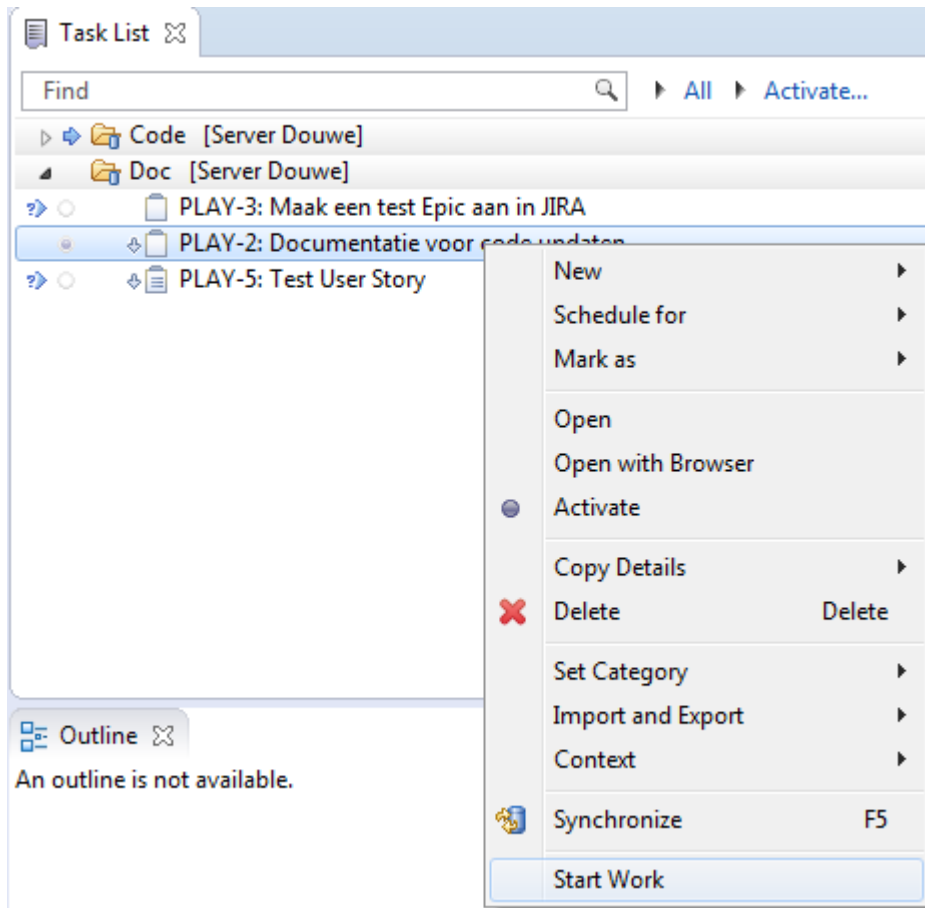
To enable, follow these steps:

1. In eclipse, open the Window menu
2. Select preferences
3. In the left column, collapse the Mylyn section
4. Select Tasks
5. Under time tracking, check "Track time spent within eclipse when a task is active"

Start work on an issue

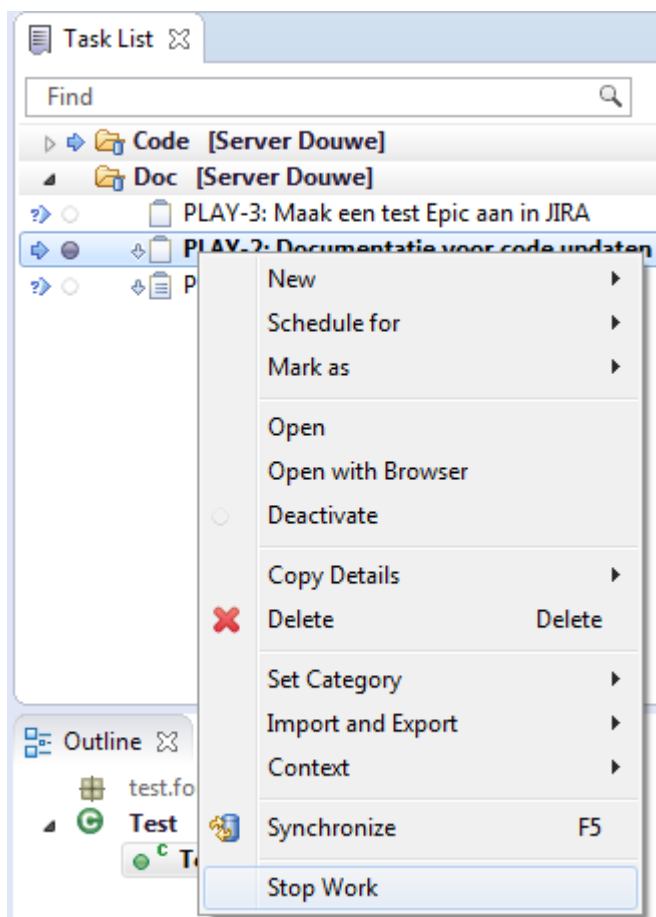
To start working on an issue (and tracking your work time), you must right-click a issue in the Task list and select "Start work".

Eclipse will now track your working time.

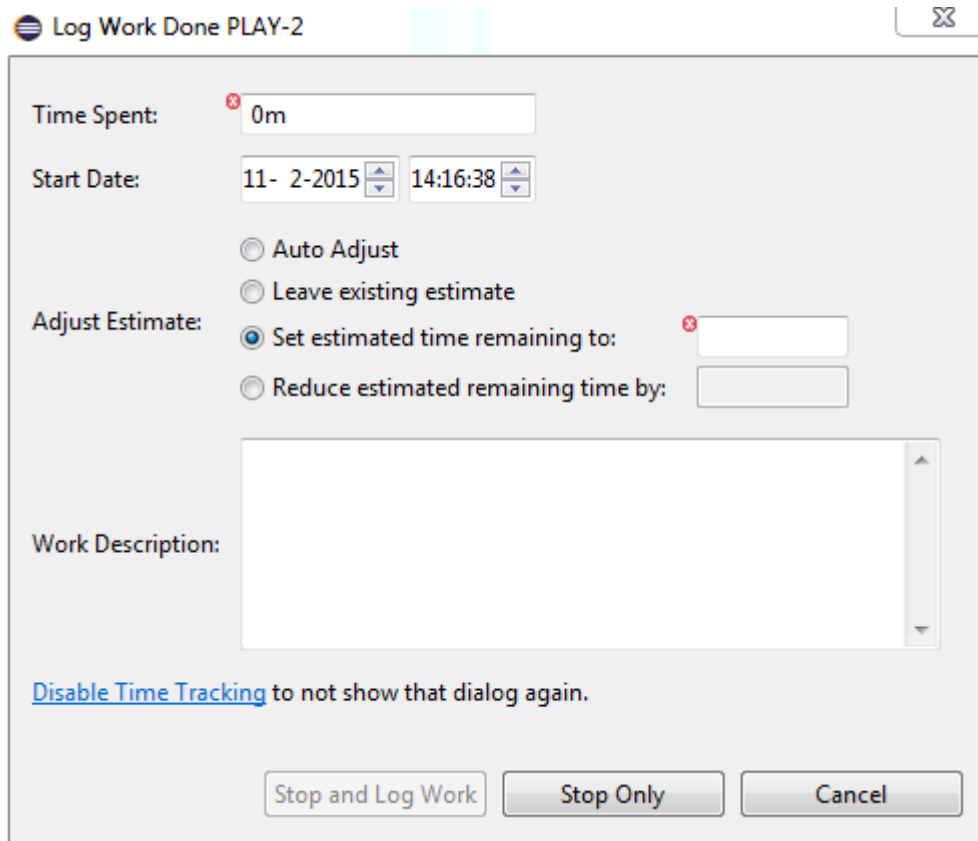


Stopping work on an issue

To stop working on an issue (and stop tracking your work time), you must right-click a issue in the Task list and select "Stop work".



After stopping work, eclipse will show the following window:



Log Work Done PLAY-2

Time Spent: 0m

Start Date: 11- 2-2015 14:16:38

Adjust Estimate:

- ☐ Auto Adjust
- ☐ Leave existing estimate
- ☒ Set estimated time remaining to: *
- ☐ Reduce estimated remaining time by:

Work Description:

[Disable Time Tracking](#) to not show that dialog again.

Stop and Log Work Stop Only Cancel

Please fill in the remaining time and add a work description of what you have done while working on this issue.

Finally, press the "Stop and Log Work" button.

Eclipse GIT

Installing eGIT

To use GIT with eclipse, you can use the eGIT plugin for eclipse.

This plugin can be installed using the following steps (source: <http://eclipse.org/egit/download/>);

1. In eclipse click help -> install new software
2. Set work with to <http://download.eclipse.org/egit/updates>
3. Select all packages to install
4. Make sure to uncheck "Contact all update sites during install to find required software"
5. Click next
6. Install

Usage

After installing you can now use git.

eGIT places a new menu in the "team" submenu.

You can use this function in your project explorer:

