



University of
Zurich^{UZH}

Department of Geography

RSL
measurements | products | policy

WG 1 – Code Development

Andy Hueni

ahueni@geo.uzh.ch

Madrid, Mar 31st 2015



4/8/2015

Page 1



Examples of shared code development and open source

SPECCHIO:

- Shared code between Australian ANDS project and RSL (UZH)
- Others can apply to contribute

SALSA++:

- Shared code between Ran Wang (UoA) and Andy Hueni (UZH)
- Others can apply to contribute

SPECCHIO Matlab GUI Sandbox:

- Matlab Central:

<http://uk.mathworks.com/matlabcentral/fileexchange/48082-specchio-interactive-sandbox-gui>

ERF (Environmental response function):

- Github code on private repository shared within ERF group (administrated by Stefan Metzger, NEON)

ahueni / SPECCHIO

Unwatch 2
Star 1
Fork 1

SPECCHIO Spectral Information System <http://www.specchio.ch> — Edit

425 commits
1 branch
24 releases
4 contributors

branch: SPECCHIO_Master
SPECCHIO / +

Multiline scrollable error message

ahueni authored 27 days ago latest commit 85e1c424e5

conf	Added CORINE update	2 months ago
doc	Updates for V3.1.3	2 months ago
pkg	Packaged for SPECCHIO V3.1.3	2 months ago
src	Multiline scrollable error message	27 days ago
web	Added a note about preservation of db_config.txt when upgrading an	a year ago
LICENCE.html	Added licensing information.	2 years ago
README	Add link to DC10 Project GitHub page.	2 months ago

README

This is the SPECCHIO Spectral Information System. SPECCHIO was originally built by the Remote Sensing Laboratories at the University of Zurich,

Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

Settings

HTTPS clone URL

<https://github.com/ahueni>

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

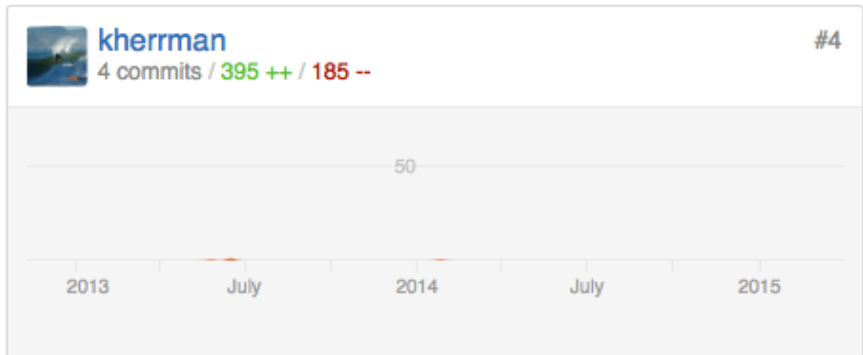
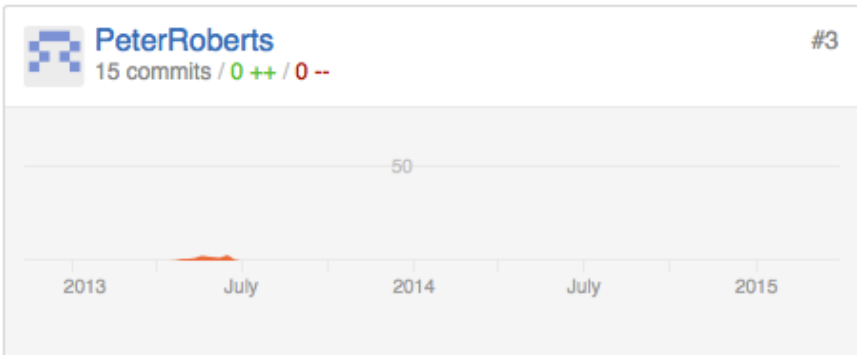
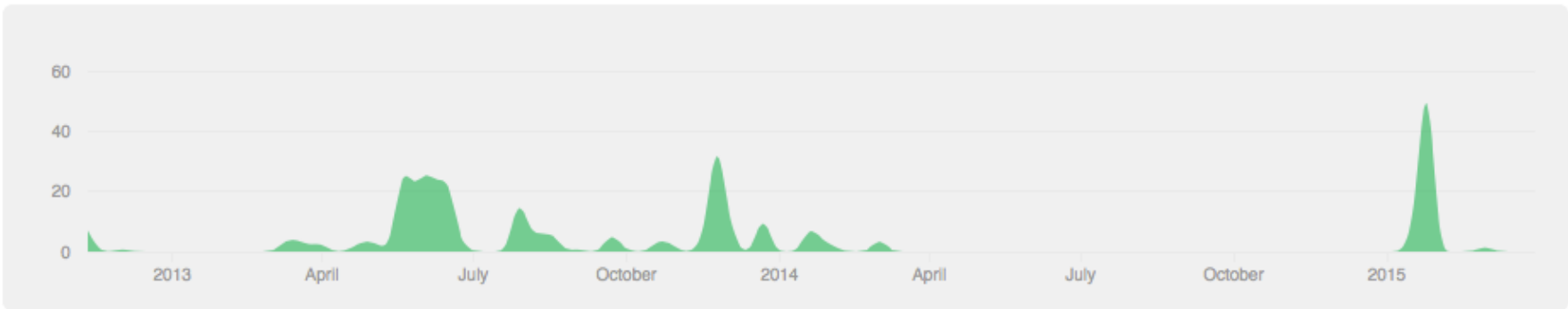
Clone in Desktop

Download ZIP

Nov 11, 2012 – Mar 31, 2015

Contributions to SPECCHIO_Master, excluding merge commits

Contributions: **Commits** ▾



Navigation sidebar with icons for: Home, Info, Search, Recent, Alerts, and Settings.



Toolbar with icons for View, Commit, Checkout, Reset, Stash, Add, Remove, Add/Remove, Fetch, Pull, Push, Branch, Merge, Tag, Show in Finder, Git Flow, Terminal, and Settings.

FILE STATUS: All Branches | Show Remote Branches | Ancestor Order | Jump to: []


Graph	Description	Commit	Author	Date
Uncommitted changes				
[]	[] SPECCHIO/SPECCHIO_Master [] SPECCHIO_Master Multiline scrollable error message Addecdd details of underlying server error	85e1c42	ahueni <ahueni@...>	31Mar, 2015 09:...
[]	Multiline scrollable error message	30c217a	ahueni <ahueni@...>	3Mar, 2015 13:22
[]	Version number update	ef685c5	ahueni <ahueni@...>	26Jan, 2015 18:57
[]	Updates for V3.1.3	1bc424c	ahueni <ahueni@...>	26Jan, 2015 18:36
[]	Packaged for SPECCHIO V3.1.3	e00a0db	ahueni <ahueni@...>	26Jan, 2015 18:29
[]	Packaged for SPECCHIO V3.1.3	2baba9c	ahueni <ahueni@...>	26Jan, 2015 18:26
[]	Add link to DC10 Project GitHub page.	47acbf5	ahueni <ahueni@...>	26Jan, 2015 18:15
[]	Merge commit 'd316a12f56ddf202628bd774294688910284c06f' into HEAD	8911f40	ahueni <ahueni@...>	26Jan, 2015 17:40
[]	[V3.1.3] New constructor/instance generator using the attribute	d316a12	ahueni <ahueni@...>	26Jan, 2015 16:40
[]	New constructor/instance generator using the attribute	53695a9	ahueni <ahueni@...>	26Jan, 2015 17:35

Sorted by path [] []

```
src/client/src/ch/specchio/gui/DataRemoverDialog.java
```

Commit: 85e1c424e584f977082bed3676445e2e4c19867c [85e1c42]
Parents: [30c217ade6](#)
Author: ahueni <ahueni@geo.uzh.ch>
Date: 4March, 2015 11:40:41 GMT+1
Labels: HEAD SPECCHIO/SPECCHIO_Master SPECCHIO_Master

Multiline scrollable error message
 Addecdd details of underlying server error



```
src/client/src/ch/specchio/gui/DataRemoverDialog.java
```

Hunk 1 : Lines 1-7 [Reverse hunk]

```
1 1 package ch.specchio.gui;
2 2
3 3 import java.awt.BorderLayout;
4 4 + import java.awt.Dimension;
5 5 import java.awt.GridBagConstraints;
6 6 import java.awt.Insets;
7 7 import java.awt.event.ActionEvent;
```

Hunk 2 : Lines 11-18 [Reverse hunk]

```
10 11 import javax.swing.JFrame;
11 12 import javax.swing.JOptionPane;
12 13 import javax.swing.JPanel;
14 14 + import javax.swing.JScrollPane;
15 15 + import javax.swing.JTextArea;
13 16 import javax.swing.JTextField;
14 17 import javax.swing.event.TreeSelectionEvent;
15 18 import javax.swing.event.TreeSelectionListener;
```

Hunk 3 : Lines 67-85 [Reverse hunk]

```
64 67         removeTreeNode(sdb_node);
65 68     }
66 69     catch (SPECCHIOClientException ex) {
70 70 +
71 71 +         JTextArea msg = new JTextArea(ex.getMessage() + "\n" + ex.getDetails());
```

File Exchange

specchio_interactive_sandbox_GUI()

by [Andy Hueni](#)
11 Oct 2014

Interactive GUI for Data Selection from the SPECCHIO Spectral Information System

[Watch this File](#)

Be the first to rate this file!

5 Downloads (last 30 days)

File Size: 4.85 KB

File ID: #48082

[Download Zip](#)

Code covered by the [BSD License](#)

Highlights from **specchio_interactive_sandbox_GUI()**

```
fx plot_2d(figure_handle, da...
fx specchio_interactive_sand...
```

[» View all files](#)

File Information

Description Provides the basic functionality to interactively browse the data provided by a SPECCHIO Spectral Information System. Server connections are automatically loaded into the Matlab GUI when the class path is set up as detailed in the SPECCHIO Matlab Guide. For more details see the documentation on www.specchio.ch

Acknowledgements [Using Java Swing Components In Matlab](#) inspired *this file*.

MATLAB release MATLAB 7.12 (R2011a)

MATLAB Search Path /
/SPECCHIO_Matlab_GUI_Sandbox

Other requirements SPECCHIO Java Application must be installed and one or more accounts must have been created on one or more SPECCHIO servers.

Tags for This File

[Please login to tag files.](#)

[spectral analysis](#)



Reinvention of the wheel ...



Oh boy, I need to write software to read and process my data ... surely someone else has done it before ... can't find it, I'll do it again!

FSF actually has some scripts online ...



Should OPTIMISE lead an effort in shared code?

Instrument	Contact	Code	Language
ASD	ahueni@geo.uzh.ch	Reader Jump correction	Java Matlab
UniSpec	Instrument Driver Reader Reflectance calculator Dark current anomaly corrector ...	Python, Matlab Java
XXX	



Experiences within OPTIMISE and your Opinion





Conclusions regarding getting stuff done:

Training schools are the place where links between WGs are being pushed forward!

Think about STSMs for your students: RSL welcomes

- **remote sensing students wanting to integrate their data in spectral processing systems**
- **computer scientists wanting to work in an applied field**



Thank you for your attention!

For more information on the current version of SPECCHIO see: www.specchio.ch

https://twitter.com/SPECCHIO_DB 



Australian Government

Department of Industry
Innovation, Science, Research
and Tertiary Education

