

CDK Bug Squash Party - Day 3 and 4

Egon Willighagen 

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Citation

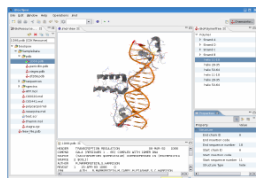
Willighagen, E. (2006). CDK Bug Squash Party - Day 3 and 4. *Chem-bla-ics*. <https://doi.org/10.59350/zwky-m-aty79>

Keywords

Cdk, Bsp, Java, Pdb

Bioclipse

Bioclipse is an Eclipse-based result viewer which allows the editing and viewing of chemical and biological data. It features small molecules, proteins, RNA, DNA, sequences, alignments and spectra's



Scripting Languages

Allows writing short pieces of customized functionality.

- Ruby
- Python
- BeanShell (Java)

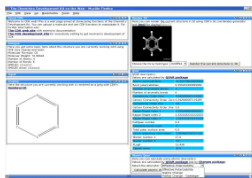
Ruby

```
parser = SmilesParser.new
smiles = 'Clcocc1'
mol = parser.parseSmiles(smiles)
puts mol.getAtomCount
```

Database / Websites

Integration with databases and websites

- Java Servlets / Ruby on Rails
- SQL via JDBC
- Ruby on Rails
- webservices

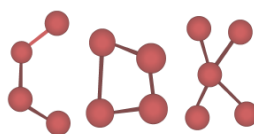


More information

- <http://cdk.sourceforge.net>
- <http://www.chemistry-development-kit.org/>
- <http://cdk.sourceforge.net/wiki>
- cdk-user@lists.sourceforge.net

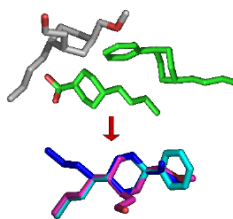
Steinbeck, C., Han, Y., Kuhn, S., Hellerich, O., Luttmann, E. and Willighagen, E. The Chemistry Development Kit (CDK): An Open-Source Java Library for Chemo- and Bioinformatics. *Journal of Chemical Information and Computer Sciences* 2003, 43, 493-500.

Steinbeck, C., Hoppe, C., Fuhn, S., Guba, R., Willighagen, E. L. Recent Developments of The Chemistry Development Kit (CDK) - An Open-Source Java Library for Chemo- and Bioinformatics. *Current Pharmaceutical Design* 2006, 12, 2111-2130.



The Chemistry Development Kit

<http://cdk.sf.net/>



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chem-bla-ics

Because I was struggling hard with [default values for cdk.interfaces fields](#), I did not have time to write up the [Bug Squash Party](#) report for day 3 (see also [day 1](#) and [day 2](#)). But here it is.

Day 3

Kai worked hard on getting the `cdk.interfaces` API cleaned up, as [agreed upon earlier](#). Christian added a test for the [RMSD calculator](#) (see `getALLAtomRMSD()`), and cleaned up his code a bit. Stefan continued his bug-squashing on JChemPaint and fixed another one or two bugs.

Rajarshi uploaded a patch to set undefined atomic properties, like partial and formal charges and the implicit hydrogen count, to **UNSET** by default. However, this broke the CDK at many places, as apparently many class methods assume the default to be zero. After discussing the issue at the CUBIC, it turned out that this was sort of the intended, though undocumented, behavior: use the [default Java values](#).

And I added missing `clone()` methods, closing one bug on SourceForge, added files for Eclipse to know how to build the CDK with Ant (thanx to Nico for similar files for [Jmol](#)), and got CDK compiled again against [Classpath](#).

Day 4

Miguel uploaded his first patch for support saving [PDBPolymer](#) data structures into and restoring them again from CML, addressing an [almost two-year-old bug](#). He created new `cdk.interfaces` for them, to address module dependencies, but a large set of JUnit tests are [yet missing](#).

Kai continued his `cdk.interfaces` refactoring, working on the more involved changes. Stefan, Tobias, and me worked on a poster and three three-fold flyers for our CDK booth at [CompLife2006](#), so have not been very productive in bug squashing. But we are happy with the result. Below is a screenshot on one side of the main CDK folder:

With [77 failing JUnit test](#), and still a too large number of [open bugs on SourceForge](#), there is plenty of things to do today.

References