

Open Text Mining Interface and Bioclipse

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Published May 7, 2006

Citation

Willighagen, E. (2006). Open Text Mining Interface and Bioclipse. In *chem-bla-ics*. chem-bla-ics. <https://doi.org/10.59350/wyet7-r6r37>

Keywords

Cml, Bioclipse, Xml, Textmining, Rss

Abstract

Timo Hannay blogged in Nature's Nascent blog about the Open Text Mining Interface (OTMI), which is "a suggestion from Nature about how we might achieve text-mining and indexing purposes". The idea is that each article has a link pointing to a machine readable file containing raw data about (and from?) the article.

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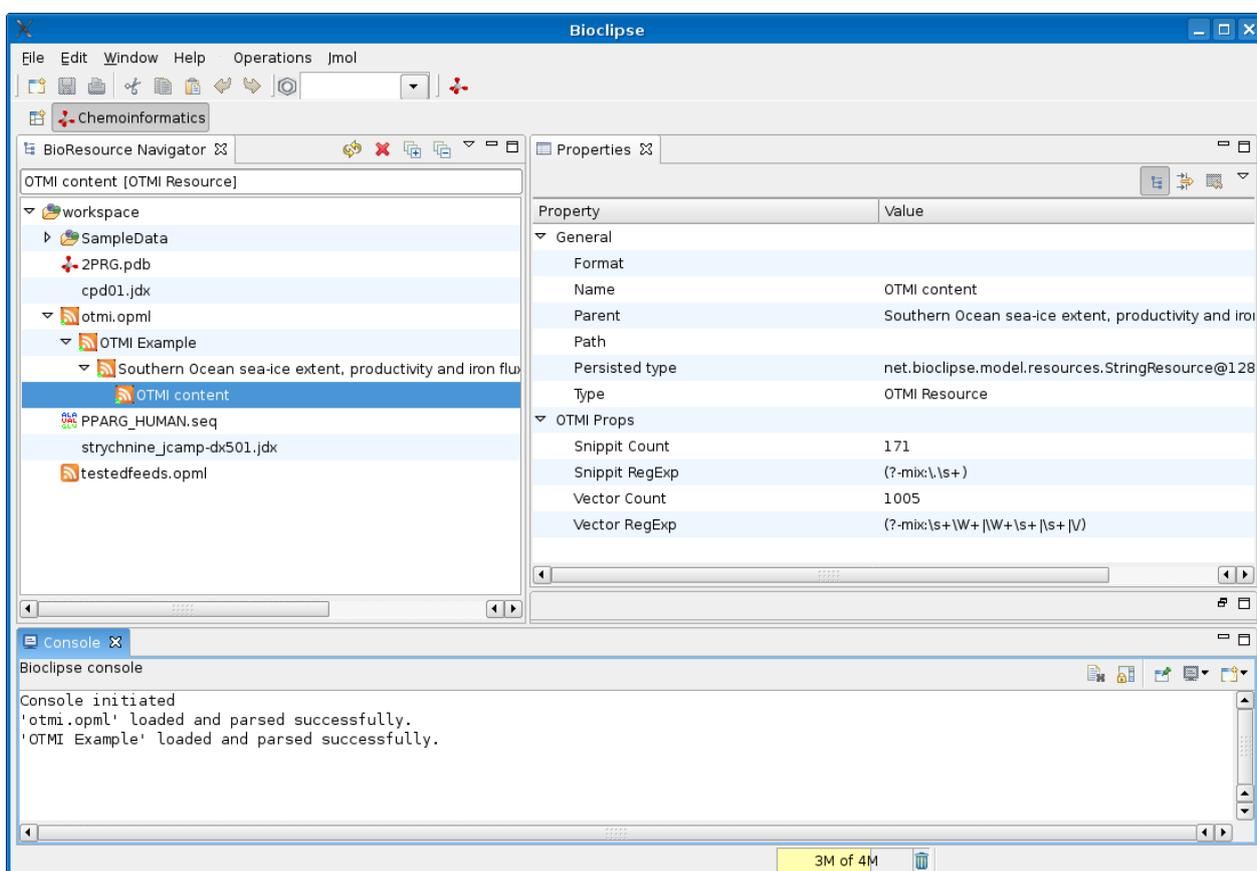
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chem-bla-ics

Timo Hannay [blogged](#) in [Nature's Nascent blog](#) about the Open Text Mining Interface (OTMI), which is “a suggestion from Nature about how we might achieve text-mining and indexing purposes”. The idea is that each article has a link pointing to a machine readable file containing raw data about (and from?) the article. The standing example uses [Atom 1.0](#) as a container, allowing raw data to be included using foreign namespaces, such as [Dublic Core](#) (for metadata) and [Prism](#) (for bibliographic data), and the OTMI text mining statistics uses a namespace too.

In a comment, [Henry Rzepa](#) proposed inclusion of CML, and refers to earlier work on CMLRSS where [Chemical Markup Language](#) is embedded in RSS news feeds for which I wrote readers for [Jmol](#) and [JChemPaint](#) (DOI:10.1021/ci034244p).

As readers of my blog know, the [Bioclipse](#) project has been working hard on an integrated (bio)chemistry workbench, and the [latest release](#) includes a [CMLRSS reader plugin](#) too, which supports CML embedded in Atom 0.3/1.0 and RSS 1.0/2.0 feeds. Now, adding support for other embedded namespaces is trivial, and this morning I hacked in support for OTMI:



This screenshot shows the original OTMI example with the Atom 1.0 entry now wrapped in an Atom 1.0 `<feed>` element. There is no nice OTMI icon for the OTMI content in the Atom 1.0 entry, neither did I make a ‘view’ yet showing the actual vector’s or the snippet’s, but that’s a piece of cake too.

Now, the nice thing about this is that the Bioclipse code for the Atom and RSS feeds, just greps through the feed entry and show whatever CML or OTMI content is present. When Nature decides to include CML in these OTMI files too, I will not have to update the current code.