

Resource Summary Report

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BrainML

RRID:SCR_007087

Type: Tool

Proper Citation

BrainML (RRID:SCR_007087)

Resource Information

URL: <http://brainml.org/goto.do?page=.home>

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Description: Set of standards and practices for using XML to facilitate information exchange between user application software and neuroscience data repositories. It allows for common shared library routines to handle most of the data processing, but also supports use of structures specialized to the needs of particular neuroscience communities. This site also serves as a repository for BrainML models. (A BrainML model is an XML Schema and optional vocabulary files describing a data model for electronic representation of neuroscience data, including data types, formats, and controlled vocabulary.) It focuses on layered definitions built over a common core in order to support community-driven extension. One such extension is provided by the new NIH-supported neuroinformatics initiative of the Society for Neuroscience, which supports the development of expert-derived terminology sets for several areas of neuroscience. Under a cooperative agreement, these term lists will be made available Open Source on this site.

The repository function of this site includes the following features:

- * BrainML models are published in searchable, browsable form.
- * Registered users may submit new models or new versions of existing models to accommodate data of interest.
- * BrainML model schema and vocabulary files are made available at fixed URLs to allow software applications to reference them.
- * Users can check models and/or instance documents for correct format before submitting them using an online validation service.

To complement the BrainML modeling language, a set of protocols have been developed for BrainML document exchange between repositories and clients, for indexing of repositories, and for data query.

Abbreviations: BrainML

Synonyms: BrainML.org

Resource Type: database, narrative resource, data or information resource, service resource, data repository, standard specification, storage service resource

Keywords: format, development, information, mechanism, metaformat, model, neuroinformatics, neuroscience, standard, terminology, validation, vocabulary, xml, data sharing, xml schema compact syntax, xml schema, interoperability, semantics

Funding: Human Brain Project ;
NIMH MH/NS57153;
NINDS MH/NS57153

Availability: Public, The community can contribute to this resource

Resource Name: BrainML

Resource ID: SCR_007087

Alternate IDs: nif-0000-21070

Alternate URLs: <http://brainml.org>

Record Creation Time: 20220129T080239+0000

Record Last Update: 20250416T063455+0000

Ratings and Alerts

No rating or validation information has been found for BrainML.

No alerts have been found for BrainML.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.