



# Metadata Toolkit Alaska Data Integration working group

The ADIwg Metadata Toolkit is an **open source** suite of applications for authoring and editing **metadata** for both **spatial and non-spatial projects and datasets**. The main goal of the toolkit is to promote the creation and use of metadata by lowering the level of technical expertise required to produce **archival quality** metadata.

Josh Bradley<sup>1</sup>, Stan Smith<sup>1</sup>, Dennis Walworth<sup>2</sup>, Wendy Loya<sup>1</sup>

**mdTools**

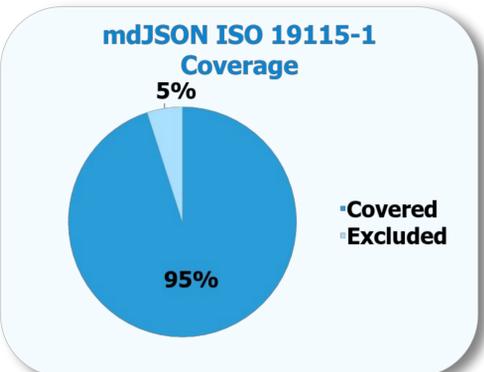
Web application that provides an interface for interacting with the toolkit components. Includes interactive schema documentation tool, validator, translator and codelist viewer.

[mdtools.adiwg.org](http://mdtools.adiwg.org)

**mdJSON Schemas**

JSON Schemas describing the mdJSON standard; Used for structural validation of mdJSON documents.

[github.com/adiwg/mdJson-schemas](https://github.com/adiwg/mdJson-schemas)



**mdEditor**

Web application for authoring and editing metadata, for both projects and datasets. Interfaces with the mdTranslator to convert mdJSON to other metadata formats.

[mdeditor.org](http://mdeditor.org)

ember, HTML5, Bootstrap

- Creates mdJSON compatible with mdTranslator
- Manage multiple records at once
- Re-use metadata records (citations), contacts (person or group), dictionaries
- Support for spatial extents (import or draw using the editor)
- Import/Export supports managing record "sets" on the local filesystem
- Use built-in keywords or add a custom list
- Built-in help



**mdJSON**

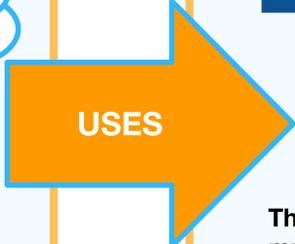
Extensible standard for encoding project and data metadata, based on JavaScript Object Notation (JSON).



**mdTranslator API**

Ruby on Rails web service providing access to the mdTranslator API:

[mdtranslator.adiwg.org](http://mdtranslator.adiwg.org)



**mdTranslator**

Open-source Ruby software application for translating between metadata standards. Metadata is input in one of the supported 'reader' formats and output in one of the supported 'writer' formats. Available as Ruby gem or Command-Line-Interface.

[adiwg.org/mdTranslator/](http://adiwg.org/mdTranslator/)  
[github.com/adiwg/mdTranslator](https://github.com/adiwg/mdTranslator)

**Architecture**

The mdTranslator supports reading and writing to multiple metadata formats. Any reader can be combined with any writer for translation. Additional readers and writers can be developed as needed.

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