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 toolkit promotes the creation and use of metadata by lowering the level of technical expertise required to produce archival quality metadata. Supports ISO 19115 and FGDC CSDGM standards. Toolkit components may be used together or individually.

**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
- Documentation for all toolkit components: mdbook.adiwg.org
- Codelists for the ADIwg mdJSON and ISO metadata profile: github.com/adiwg/mdCodes
- rubygems.org (adiwg-mdcodes)

**mdEditor**
Web application for authoring and editing metadata, for both projects and datasets. Interfaces with the mdTranslator to convert mdJSON to other metadata formats.
- github.com/adiwg/mdEditor

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

**mdJSON Schemas**
JSON Schemas describing the mdJSON standard; Used for structural validation of mdJSON documents.
- github.com/adiwg/mdJSON-schemas
- rubygems.org (adiwg-mdJSON_schemas)

**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.
- adwg.org/mdTranslator
- rubygems.org (adiwg-mdtranslator)
- github.com/adiwg/mdTranslator

**mdTools API**
Ruby on Rails web service providing access to the mdTranslator API.
- mdtranslator.adiwg.org

**mdJSON ISO 19115-1 Coverage**
- 95% Covered
- 5% Excluded

**USES**
- 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 file system
- Use built-in keywords or add a custom list
- Built-in help

**WRITES**
- Supports ISO 19115 and FGDC CSDGM standards
- Toolkit components may be used together or individually

**DEFINES**
- JSON Schemas describing the mdJSON standard; Used for structural validation of mdJSON documents.
- mdJSON ISO 19115-1 Coverage
- 95% Covered
- 5% Excluded

**READS**
- 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.

**USES**
- USES
- WRITES
- DEFINES
- READS