



ISO Developer's Toolkit - CLI Integration

2015 CDI Workshop

May 11, 2015

Josh Bradley, USGS



mdTranslator CLI



- Command-line interface is provided with gem
- Supports all options available via API
- Allows simple integration with non-Ruby applications

mdTranslator CLI



> mdtranslator help translate

Usage:

mdtranslator translate [FILE]

Options:

- r, [--reader=READER] # Name of reader to read your input
 # Default: mdJson
- w, [--writer=WRITER] # Name of writer to create your metadata, or leave blank to validate input only
- v, [--validate=VALIDATE] # Specify level of validation to be performed
 # Default: normal
 # Possible values: none, normal, strict
- s, [--showAllTags], [--no-showAllTags] # Include tags for unused attributes
- m, [--messages=MESSAGES] # On error return messages as formatted text or json object
 # Default: text
 # Possible values: json, text
- o, [--returnObject], [--no-returnObject] # Return full JSON object generated by translator

CLI: -o, [--returnObject]



> mdtranslator translate -o -w html file.json

```
{
  "readerFormat" : "json",
  "readerStructurePass" : true,
  "readerStructureMessages" : [],
  "readerRequested" : "mdJson",
  "readerFound" : "mdJson",
  "readerVersionFound" : "1.0.0",
  "readerVersionUsed" : "1.0",
  "readerValidationLevel" : "normal",
  "readerValidationPass" : true,
  "readerValidationMessages" : [],
  "readerExecutionPass" : true,
  "readerExecutionMessages" : [],
  "writerName" : "html",
  "writerVersion" : "1.1.1",
  "writerFormat" : "html",
  "writerPass" : true,
  "writerMessages" : [],
  "writerOutput" : "<!DOCTYPE html>\n<html lang=\"en\">\n..."
}
```

PHP Example



```
1. <?php
2. function translate($json, $format='iso19115_2') {
3.     //write to temp file to support cross-platform
4.     $temp = tmpfile();
5.     fwrite($temp, $json);
6.     fseek($temp, 0);
7.     $meta = stream_get_meta_data($temp);
8.     → exec("mdtranslator translate -o -w $format " . $meta['uri'], $out, $code);
9.     fclose($temp);
10.
11.     $xml = empty($out) ? FALSE : json_decode($out[0]);
12.
13.     if ($code > 0) {
14.         throw new \Exception("mdTranslator error.");
15.     } elseif (!is_object($xml) || !$xml->writerPass) {
16.         throw new \Exception("JSON did not validate.");
17.     }
18.
19.     return $xml->writerOutput;
20. }
21. ?>
```

Application Example

