cmi5 vs. SCORM

Five Reasons why cmi5 is better than SCORM
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- RISC, Inc.
  - LMS
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Does xAPI replace SCORM?

- xAPI defines communication layer and storage.
- LMS is not mentioned… no LMS to content communication
- SCORM features are not included
  - Sequencing
  - Bookmarking
  - Completion criteria
- You COULD use extensions, but there is no interoperability.
cmi5: Next Generation SCORM

• Next generation Content To LMS interoperability specification

LMS “Use Case” for xAPI

• Built on top of xAPI

xAPI + “rules” = cmi5
Some cmi5 features have been replicated for SCORM by various LMS vendors, but…

- Not part of the SCORM specification
- Not interoperable
Benefit 1: No Pop-Ups

Case 1: The dreaded, silent pop-up blocker.
Benefit 1 – No Pop-Ups

Case 2: The dastardly pop-behind.
Benefit 1: No Pop-Ups

cmi5 in action
Benefit 2: Distributed Content
Benefit 2: Distributed Content

cmi5 in action
Benefit 3: Extensible Data Model

- The SCORM data model, while extensive, is fixed.
- cmi5 uses xAPI, which is extensible.
Benefit 3: Extensible Data Model

cmi5 in action
### Benefit 4: Blocks

<table>
<thead>
<tr>
<th>Lesson Name</th>
<th>Type</th>
<th>Required</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geologic materials</td>
<td>Block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock and rock cycle</td>
<td>E-Learning</td>
<td>✓</td>
<td>Completed</td>
<td>Run</td>
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<tr>
<td>Unconsolidated material</td>
<td>E-Learning</td>
<td></td>
<td>Completed</td>
<td>Run</td>
</tr>
<tr>
<td>Whole-Earth structure</td>
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<tr>
<td>Plate tectonics</td>
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<td>✓</td>
<td>Completed</td>
<td>Run</td>
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<tr>
<td>Structure of the earth</td>
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<td>Not Started</td>
<td>Run</td>
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<tr>
<td>Geologic time scale</td>
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<tr>
<td>History and nomenclature of the time scale</td>
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<td>Not Available</td>
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<td>Current official geologic time scale</td>
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</tbody>
</table>
Benefit 5: Data Sharing Across AU
Bonus 1: Clarity of “move on”

Since a long time ago (2001?), in this galaxy, there’s been a war going on….

- Options
  - Completed
  - Passed
  - CompletedAndPassed
<table>
<thead>
<tr>
<th>Feature</th>
<th>Whose in charge?</th>
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<tbody>
<tr>
<td></td>
<td>SCORM</td>
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<tr>
<td>Passing Score</td>
<td>Content</td>
</tr>
<tr>
<td>Move On Criteria</td>
<td>Content</td>
</tr>
</tbody>
</table>
Bonus 3: Client Agnostic

- For all practical purposes, SCORM is dependent on the browser (javascript)
- cmi5 is not (REST and JSON)
  - Most coding languages can interpret JSON data.
  - cmi5 can launch mobile app, for example
Bonus 4: Data Portability

Have you ever tried to transfer data from one LMS to another?

SCORM  cmi5
References

- http://aicc.github.io/CMI-5_Spec_Current/
- http://aicc.github.io/CMI-5_Spec_Current/SCORM/