IGNITE! PRESENTATIONS TECHNICAL CONCEPTS

## xAPI Profiles and xAPI Adoption in DoD

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## xAPI Profiles and xAPI Adoption in DOD

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#### DoD Distributed Learning is doing fine.

#### LMS

#### I'm Stuck! Get me out of here!

#### SCORM Data

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## In 15 Seconds, What is xAPI?



- Technical Specification (Targeting Standardization)
- Actor-Verb-Object
  Structure
- Human and Machine Readable

Sharable Content Object Reference Model

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DEPIES



#### Learning Record Store (LRS)

← This, but digital

• Sharing Across Systems

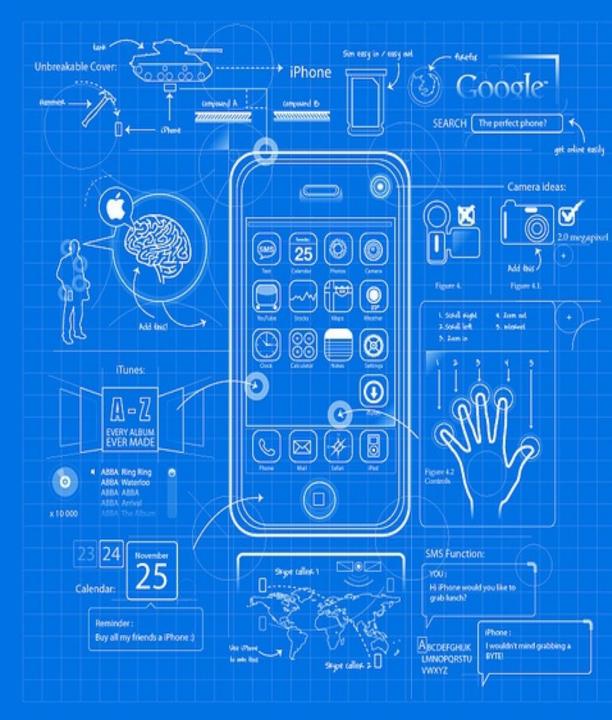
Mandates Retrieval

## Data Science Talent Acquisition

## What is an xAPI Profile?



- Template of Technical Rules
- Validates Sets of Statements
- Employs Semantic Web Principles





#### **xAPI** Profile Specification

🖘 🖓 https://github.com/adlnet/xapi-profiles/blob/master/xapi-prc 🔎 👻 🔒 Identified by DigiCert 🖒 📿 xapi-profiles/xapi-profiles-c... 🗙

To validate a Statement against the Statement Templates of a Profile, call the validates function described in pseudocode below with the Statement and all the Statement Templates from the Profile. This function returns an outcome and an array of Statement Templates. To interpret the results, consult the table after the algorithm definition.

```
function validates(statement, templates):
 matching templates = []
 failing templates = []
 outcome = success
 for template in templates:
     if matches determining properties(statement, template):
         if follows_rules(statement, template):
             matching templates.append(template.id)
         else:
             outcome = invalid
             failing_templates.append(template.id)
 if outcome is success:
     if length of matching_templates > 0:
         return success, matching_templates
     else:
         return unmatched, []
 else:
     return invalid, failing_templates
```

- Template of Technical Rules
- Validates Sets of Statements
- Employs Semantic Web Principles



- Generalized Distributed Learning
- Modes of Delivery
- Specific Disciplines



#### Solution 1: cmi5



- LMS + xAPI = cmi5
- cmi5 Support INCLUDES xAPI Support
- cmi5 handles most things that are done in SCORM



- A simplified tracking data model
- The ability to record and report/retrieve content-defined data
- Support for content as a service (CaaS) model of delivery
- Device/OS/browser independence
- Share data between learning activities

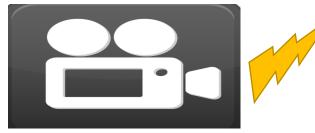




## **DoD Profile**











#### Solution 2: Accrediting an LRS



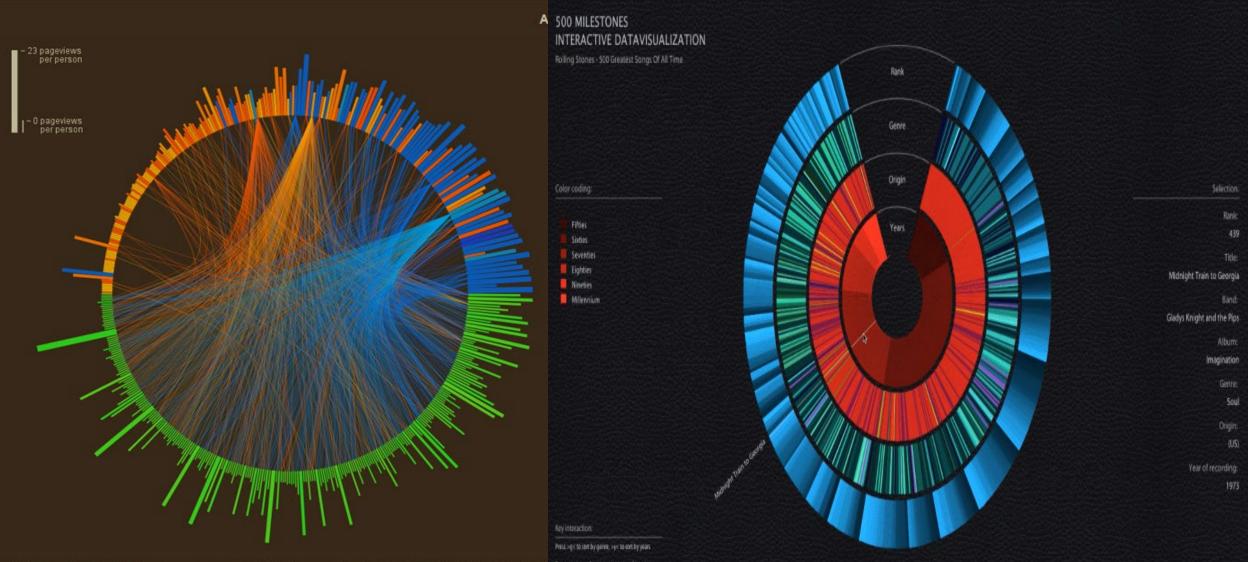
- Unlock latent benefits of xAPI
- Eliminate "stovepipes"
- Track Human Performance
- Inheritable Baseline Documentation
- Reduction of zero-day costs across DoD

# YOUGHTANLIS, YOUGHTANLIS

# AVERYONE GETS AN LESI

imgflip.com

#### Solution 3: Data Validation and Visualization Tools



In June 2011, Wikipedia had a total of 17.6 million page views per hour to its 280 languages. From April 2010 to March 2011, Wikipedia had visits f Philosofblorbyregn ac block by an years, much of the global population still has limited internet access. This is a tool for exploring the global connections between Wikipedia's page:



## xAPI Profile Server



## Parting Thoughts: Importance of Standards

