Building the Perfect (Knowledge Engineering) Syllabus

Cogan Shimizu



Whoops!

- Scheduling Snafu!
- This is a very rushed partial look at what I wanted to do :)
- Open Curriculum, Education Gateway, Principle Components





An Open Curriculum

- Knowledge Engineering (and their artifacts) are quickly changing! But, they lack the
- Principled, but opinionated approach
- Community-based action
- https://github.com/KGConf/open-kg-curriculum



A Learning Material Knowledge Graph?

- Eating our own dog food :)
- Different Media Types
 - Connecting Articles, Workshops, Tutorials, Meetings, Clubs, etc.

HAVE YOU EVER SHOWN UP TO A WOTCKSHOP AND HAD NO IDEA WHAT WAS GOING ON?



Learning Components

Learning Objective

The specific topic or concept to be learned

Learning Path

A traversal over the Learning Material Graph

Starting Knowledge to a competency

Learning Outcomes

How do we evaluate knowledge and competency?

Learning Objectives & Paths

Learning Objective

The specific concept or topic to be learned.

TANGIBLE OUTCOME

WHAT DO I NEED TO KNOW [IN OTZDETZ TO] DEPLOY A
KNOWLEDGE GRAPH?

Learning Objectives & Paths

Learning Path

A traversal over the Learning Material Graph

LEARNING ORJECTIVE

Learning Objectives & Paths

Learning Outcomes

How to evaluate knowledge and competency?

A REALLY BIG OPEN QUESTION:)

CODE SANDBOXES? QUIZZES?

 Measuring competency frequency depends on the learner. A trained software engineer is probably less interested in quizzes.



Cogan Shimizu cogan.shimizu@wright.edu coganshimizu.com

Knowledge and Semantic Technologies Laboratory
Wright State University