CiTO: the Citation Typing Ontology

Created by: David Shotton
Presented by: Graham Dostal
The Current Situation

- Citation indexes and academia
  - More citations = More prestige
- This doesn’t accurately reflect how citations are actually used.
  - Value should be based on importance to citing work
  - A more influential work = a better scientist writing it.
THE CiTO SOLUTION

- CiTO offers items to devalue citation indexes
  1. Citation Networks (a graph)
  2. Citation Characterization (typing)
  3. Citation frequency
  4. Characterization of works cited (FRBR)
Citation Networks
Citation Characterization

- The reasons why something is cited
  - Confirms
  - Obtains background from
  - Cites for information
  - Disagrees with
  - Critiques
  - Corrects
  - Credits
Citation Frequency

- Is the number of times a work is cited in a particular text,

- And the number of times a work is cited within a citation network.
Characterization of Works

- Uses the Functional Requirements for Bibliographic Records
  - **Work**
    - e.g. Report, discussion, review, etc.
  - **Manifestation**
    - e.g. Print object, web-document, etc.
  - **Expression**
    - E.g. Book, journal article, text file, etc.
CiTO in Action

- Creation of individuals representing works based on URIs
CiTO in Action

- Connecting works together and typing them using CiTO’s “cites” and citation typing properties
CiTO in Action

- Using FRBR
CiTO in Action

- Citation Count

Description: intext_for_Semantic_Citation_count_of_1

Types

- InTextCitationCount

Property assertions: intext_for_Semantic_Citation_count_of_1

Object property assertions

Property assertions: fulltext.pdf

Object property assertions

- inTextCitationTarget
- intext_for_Semantic_Citation_count_of_1
- isCitedBy_Semantic_Citation
Questions?