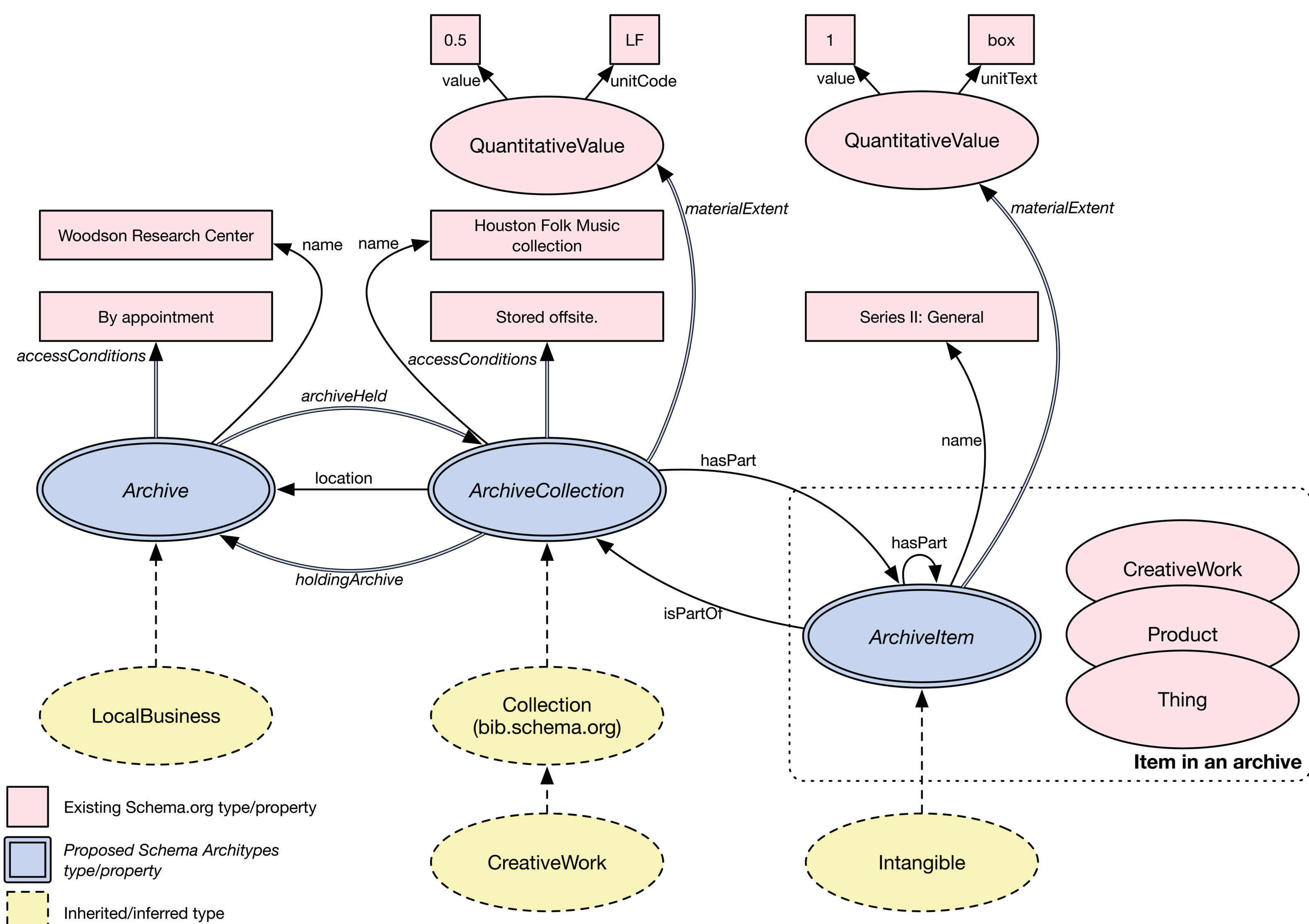


Creating a Linked Data-Friendly Metadata Application Profile for Archival Description

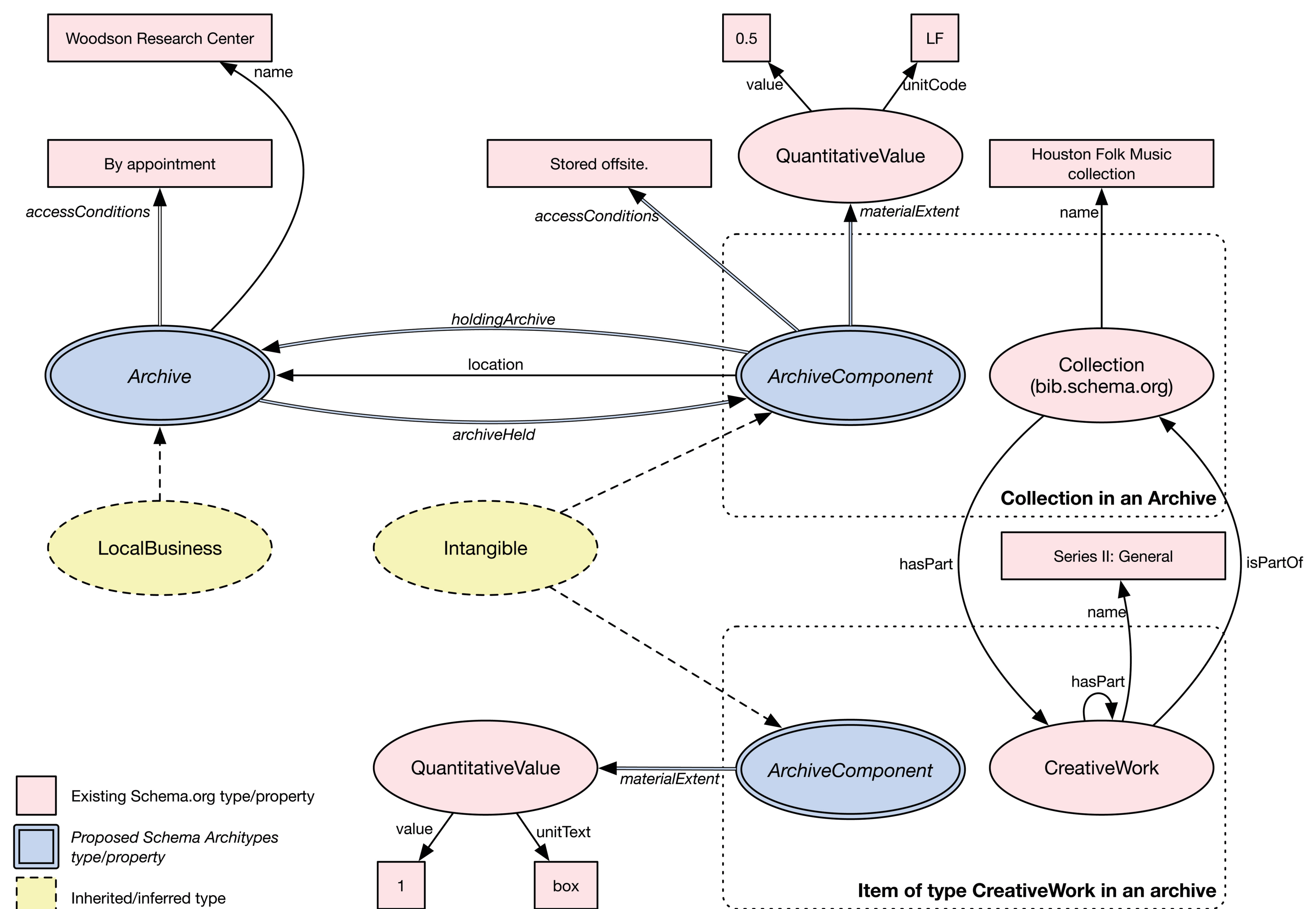
Mark A. Matienzo
Stanford University, U.S.A.
matienzo@stanford.edu

Elizabeth Russey Roke
Emory University, U.S.A.
elizabeth.roke@emory.edu

Scott Carlson
Rice University, U.S.A.
scarlson@rice.edu



Initial Schema Archetypes proposal extension with extent extension (now superceded)



Second Schema Architypes proposal with extent extension, submitted to the Schema.org community on 28 September 2017

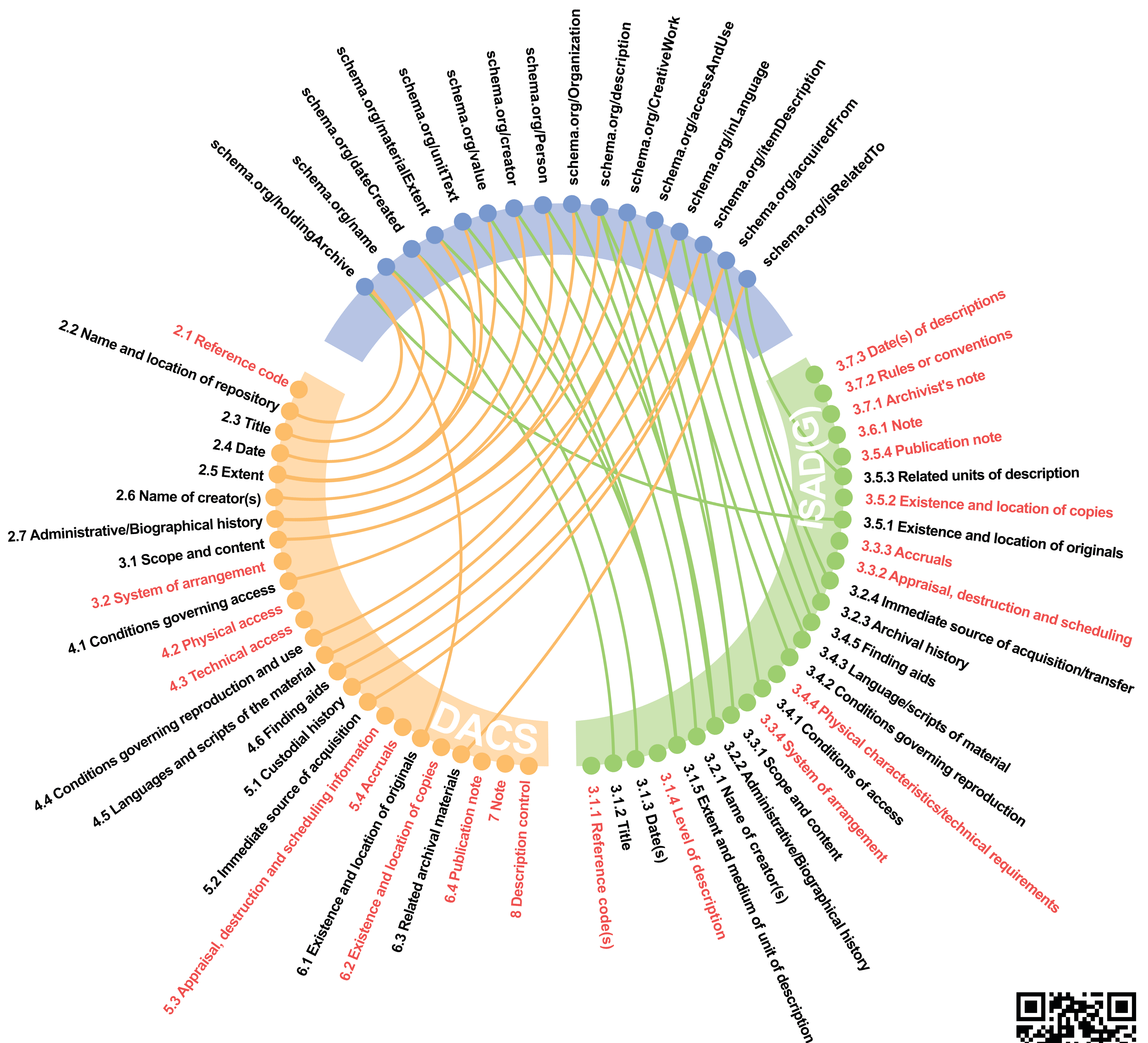
Although Schema.org has become one of the most widely recognized and adopted mechanisms for publishing structured data on the World Wide Web, the adoption of Schema.org in the context of archives has been somewhat limited. This project focuses on identifying methods to publish linked data about archives, archival resources, and their relationships, and to identify gaps between existing models. In our initial round of work, we focused on applying Schema.org as the core model, particularly in relationship to W3C Schema Archetypes Community Group. We see this as an opportunity to demonstrate the potential of Schema.org as a minimally viable mechanism for publishing linked data about archives, their collections, and the entities involved in their creation and management.

The first phase of the project, completed in April 2017, involved a survey of the landscape of related initiatives, and the identification of use cases. Our landscape survey focused on an initial review of potential models to serve as the basis for this work, including Schema.org; the Linking Lives project; the Bibframe Lite archives extension; and the Europeana Data Model. The group chose not to evaluate the draft Records in Context Conceptual Model for this purpose given its complexity, the lack of an associated ontology (originally scheduled to be released in late 2016), and the likelihood of substantial revision. The second phase of the project, completed and pending feedback as of August 2017, was to undertake in-depth analysis of Schema.org and its associated extensions as a means to develop a profile suitable for publishing linked data for archives. We have a completed a preliminary set of mappings from ISAD(G), ISAAR-CPF, DACS, and the ArchivesSpace and AtOM data models to Schema.org and the Archtypes extensions for collection-level descriptions and information about agents and archival repositories, and have created a small number of draft examples used to verify our mappings.

We expect that our project will provide a satisfactory proof of concept and test corpus of information about archives that will serve as a basis for fuller implementations in archival management systems such as ArchivesSpace, AtoM, staticAid, and ArcLight. In addition, we expect to extend our work to undertake more in-depth investigation of and mapping to other proposed ontologies and data models for archives, with the possibility of generating extension ontologies or application profiles through further gap analysis.

Special thanks to the members of the Archives and Linked Data Interest Group working on this project: Mark Custer, Patrick Galligan, Dan Gillean, Gloria Gonzalez, Maggie Hughes, Dave Mayo, Laney McGlohon, Evelyn McLellan, Katy Rawdon, and Ruth Kitchin Tillman.

For more information, please visit our workspace:
<https://archival.github.io/schema-org/>



Elements of DACS and ISAD(G) mapped to both existing Schema.org properties/types and proposed properties/types from the Archetypes Proposal

