East Asia Digital Library Initiative

Definition of the EADL Data Model

v1.1.1

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EADL Model Definition

1. Introduction

This specification describes East Asia Digital Library Initiative Ontology vocabularies using W3C's RDF and OWL technology. The EADL Model is designed to contain the data provided by the countries of East Asia as print data and digital data, and consists of Class and Property that can represent it. The elements that make up the model consist of a vocabulary reusing a well-known vocabulary to define the model and a vocabulary newly defined in EADL if necessary.

The namespace of the reused vocabulary is as follows.

- ◆ The Resource Description Framework (RDF) and the RDF Schema (RDFS) namespaces (http://www.w3.org/2000/01/rdf-schema#/)
- ◆ Friend of a Friend (FOAF) namespace
  (http://xmlns.com/foaf/0.1/)
- ◆ The Simple Knowledge Organization System (SKOS) namespace (http://www.w3.org/2004/02/skos/core)
- ◆ The Dublin Core namespaces for properties from the elements, terms and types namespaces. (http://purl.org/dc/elements/1.1, http://purl.org/dc/terms, http://purl.org/dc/dcmitype/)
- ◆ Web Ontology Language (OWL) namespace
  (http://www.w3.org/2002/07/owl#)

2. Classes

The main classes used in the EADL model are shown in Figure 1. The EADLICollection class is used to represent the collection concept for data collected from EADL. All data provided by EADL belongs to one or more collections. The EADLObject class is used to express the concept of printed data among the data collected from EADL. The DigitizedObject class is used to represent concept of digital material that digitizes printed material. ImageObject is used to represent actual image files of digital material.

2.1. EADL Classes

2.1.1. EADLICollection

Class Name	eadlon:EADLICollection
URI	http://eadl.asia/ontology/EADLICollection
Label	East Asia Digital Library Collections
	EADL 数字图书馆馆藏
	EADL 電子図書館コレクション
	동아시아 디지털 도서관 컬렉션
Definition	collections of resource that is possessing by East Asia each other. Not to be confused with bibo:Collection
	EADL 数字图书馆项目馆藏
	EADL 各国の図書館で所蔵している資料のコレクション。 bibo ： コレクションと混同しないようにしてください。
	동아시아 각국의 도서관에서 보유하고 있는 자료에 대한 컬렉션
SubClass of	dcmitype:Collection, owl:Thing

2.1.2. EADLObject

Class Name	eadlon:EADLObject
URI	http://eadl.asia/ontology/EADLObject
Label	EADLObject
	EADL 对象
	EADL オブジェクト
	EADL 객체
Definition	Any object that is a printed material collected IN/FOR EADL.
	中日韩数字图书馆收藏的所有印刷物对象
	EADL で収集したあらゆる印刷物のオブジェクト
	EADL 에서 수집한 인쇄자료의 모든 개체
SubClass of	schema:CreativeWork, owl:Thing

2.1.3. DigitizedObject

Class Name	eadlon:DigitizedObject

URI	http://eadl.asia/ontology/DigitizedObject
Label	Digitized object
	对象数据
	デジタルオブジェクト
	디지털 객체
Definition	Any object that is the digitized material derived from EADLObject.
	所有来自中日韩数据图书的对象数据
	EADL オブジェクトから派生したあらゆるデジタルオブジェクト
	EADLObject 에서 디지털화된 모든 개체
SubClass of	schema:CreativeWork , owl:Thing

2.2. Classes of Reused Vocabularies

2.2.1. DCMITYPE Collection

Class Name	dcmitype:Collection
URI	http://purl.org/dc/dcmitype/Collection
Label	Collection
Definition	An aggregation of resources.
Comment	A collection is described as a group; its parts may also be separately described.
SubClass of	rdfs:Resource

2.2.2 SCHEMA CreativeWork

Class Name	schema:CreativeWork
URI	http://schema.org/CreativeWork
Label	CreativeWork
Definition	The most generic kind of creative work, including books, movies, photographs, software programs, etc.
SubClass of	schema:Thing

2.2.3 SCHEMA ImageObject

Class Name	schema:ImageObject

URI	http://schema.org/ImageObject
Label	ImageObject
Definition	An image file.
SubClass of	schema:MediaObject
EquivalentClass	http://purl.org/dc/dcmitype/Image

2.2.4 SCHEMA MediaObject

Class Name	schema:MediaObject
URI	http://schema.org/MediaObject
Label	MediaObject
Definition	A media object, such as an image, video, or audio object embedded in a web page or a downloadable dataset i.e. DataDownload. Note that a creative work may have many media objects associated with it on the same web page. For example, a page about a single song (MusicRecording) may have a music video (VideoObject), and a high and low bandwidth audio stream (2 AudioObject's).
SubClass of	schema:CreativeWork

3. Properties

3.1. EADL Properties

3.1.1. bitDepth

Property Name	eadlon:bitDepth
URI	http://eadl.asia/ontology/bitDepth
Label	bit depth
	像素深度
	ビット深度
	비트 심도
Definition	The quantity which estimates quality of a signal quantization
	像素深度是指存储每个像素所用的位数，也是用来度量图像的分辨率
	色深度。デジタル画像でのピクセル毎のビット数。
	비트 심도
Domain	schema:ImageObject
Range	rdfs:Literal
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: 1

3.1.2. classificationNumber.

Property Name	eadlon:classificationNumber
URI	http://eadl.asia/ontology/classificationNumber
Label	classification number
	分类号
	分類記号
	분류기호
Definition	Classification number on the Library Call Number
	根据一定的分类检索语言及其规则，为特定文献单元的内容主题赋予的文献分类标识号，规定了特定文献单元的内容主题在一个分类系统中的位置
	請求記号に含まれる資料の主題を表す記号
	분류체계를 통하여 자료의 주제를 표현하는 도서관의 청구기호를 구성하는 요소
Domain	eadlon:EADLObject

Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.3. colorSpace

Property Name	eadlon:colorSpace
URI	http://eadl.asia/ontology/colorSpace
Label	color space
	色彩空间
	色空間
	색공간
Definition	A color space is a specific organization of colors. In combination with physical device profiling, it allows for reproducible representations of color, in both analog and digital representations.
	色彩空间是描述使用一组值表示颜色方法的抽象数学模型
	ある特定の色を数値等のパラメータで秩序立てて表現する方式および表現できる範囲。
	색을 표시하기 위한 특정한 색의 공간
Domain	schema:ImageObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.4. compressionRatio

Property Name	eadlon:compressionRatio
URI	http://eadl.asia/ontology/compressionRatio
Label	compression ratio
	压缩率
	圧縮比
	압축률
Definition	Percentage of before and after compression. The higher the compression ratio, the better the compression.
	压缩效果，是文件压缩后大小与压缩前大小之比

	圧縮比。圧縮前後のパーセンテージ。
	압축 전후의 백분율
Domain	schema:ImageObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.5. dataProvider

Property Name	eadlon:dataProvider
URI	http://eadl.asia/ontology/dataProvider
Label	data provider
	数据提供者
	データ提供者
	데이터 제공자
Definition	A data provider who supplied data for EADL
	数据提供者
	EADL へのデータ提供者
	EADL 포털의 데이터를 제공하는 공급자
Domain	eadlon:EADLObject or eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.1.6. dateDigitized

Property Name	eadlon:dateDigitized
URI	http://eadl.asia/ontology/dateDigitized
Label	date digitized
	数字化日期
	デジタル化日
	디지털화한 날짜
Definition	The date on which the EADLObject was digitized to DigitizedObject.
	资源数字化日期

	EADL オブジェクトがデジタル化された日付
	디지털 객체의 디지털화한 날짜
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.7. ddc

Property Name	eadlon:ddc
URI	http://eadl.asia/ontology/ddc
Label	DDC
Definition	Dewey Decimal Classification
	杜威十进制分类法
	デューイ十進分類法
	듀이십진분류법
Domain	eadlon:EADLObject or eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.8. digitized

Property Name	eadlon:digitized
URI	http://eadl.asia/ontology/digitized
Label	digitized
	数字化
	デジタル化に関する情報
	디지털화
Definition	Relates a EADLObject to one of its DigitizedObject.
	将纸质文献转换为数字影像的过程
	EADL オブジェクトをそのデジタルオブジェクトの１つに関連付ける
	인쇄 자료를 디지털 객체로 변환함
Domain	eadlon:EADLObject

Range	eadlon:DigitizedObject
InverseOf	eadlon:original
Obligation	optional
Occurrence	A resource may digitize 0 to many resources. Conversely, a resource may have only 1 original resource.

3.1.9. digitizedPublisher

Property Name	eadlon:digitizedPublisher
URI	http://eadl.asia/ontology/digitizedPublisher
Label	digitized publisher
	数字资源出版商
	デジタル化出版者
	디지털객체 발행자
Definition	A publisher of DigitizedObject
	数字资源出版商
	当該 EADL オブジェクトをデジタル化した実体
	디지털 객체의 발행자
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.1.10. directLink (for System)

Property Name	eadlon:directLink
URI	http://eadl.asia/ontology/directLink
Label	direct link
	직접 링크
Definition	Link one of the DigitizedObject that digitized EADLObject
	EADLObject 를 디지털화한 DigitizedObject 중 하나를 연결(:digitized 로 연결되는 것 중 하나를 이 프로퍼티로 연결하는 것으로서 볼륨번호가 빠른 것으로 연결됨, 관리용으로 사용)
Domain	eadlon:EADLObject
Range	eadlon:DigitizedObject

Obligation	optional

3.1.11. doi

Property Name	eadlon:doi
URI	http://eadl.asia/ontology/doi
Label	DOI
	唯一标识符
Definition	Digital Object Identifier
	唯一标识符
	デジタルオブジェクト識別子
	디지털 객체 식별자
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.12. extent

Property Name	eadlon:extent
URI	http://eadl.asia/ontology/extent
Label	extent
	查看内容
	容量・大きさ
	크기
Definition	The size or duration of the resource.
	对象的长度
	当該情報資源の物理的ないし時間的な長さ
	자원의 크기 또는 기간
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.13. hasView

Property Name	eadlon:hasView
URI	http://eadl.asia/ontology/hasView
Label	has view
	可浏览（可在线阅读）
	提供元ページ参照
	내용 보기 URL
Definition	This property enables to support browsing of its resources from each original country web pages.
	提供该数据原有国家在线阅读
	各国の元のウェブページ
	이 속성을 이용하면 해당 자원에 대해 각국의 원본 웹페이지를 참조할 수 있음
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Obligation	optional
Occurrence	A resource may have 0 to many resources as hasView

3.1.14. holdingAgent

Property Name	eadlon:holdingAgent
URI	http://eadl.asia/ontology/holdingAgent
Label	holding agent
	馆藏机构
	所蔵機関
	소장 기관
Definition	An agent that data is keeping on.
	收藏数据的机构
	データを所蔵する機関
	데이터를 소장하는 기관
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Range	rdfs:Literal
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: 1

3.1.15. isDigitalCollection (for System)

Property Name	eadlon:isDigitalCollection
URI	http://eadl.asia/ontology/isDigitalCollection
Label	is digital collection
	디지털 콜렉션 구분 여부
Definition	This property describes whether the material is belong to Digital Collection.
	해당 자료가 디지털 컬렉션에 포함되는지를 표기
Domain	eadlon:EADLObject or eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional

3.1.16. itemNumber

Property Name	eadlon:itemNumber
URI	http://eadl.asia/ontology/itemNumber
Label	item number
	索书号
	図書記号
	도서기호
Definition	Item Call Number
	索书号
	請求記号に含まれる当該冊子を表す記号
	청구기호에서 해당 아이템이 가진 도서기호
Domain	eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.17. kdc

Property Name	eadlon:kdc
URI	http://eadl.asia/ontology/kdc

Label	KDC
Definition	Korean Decimal Classification
	韩国十进分类法
	韓国十進分類法
	한국십진분류법
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.18. lcc

Property Name	eadlon:lcc
URI	http://eadl.asia/ontology/lcc
Label	LCC
Definition	Library of Congress Classification
	美国国会图书馆分类法
	米国議会図書館分類表
	미국의회도서관분류법
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.19. linkingEntryComplexityNote

Property Name	eadlon:linkingEntryComplexityNote
URI	http://eadl.asia/ontology/linkingEntryComplexityNote
Label	linking entry complexity note
	关联度说明
	注記
	연관저록 설명 주기
Definition	This property describes the signatures and related technical details relevant

	to the material.
	描述签名相关的技术细节
	関連する技術情報
	해당자료의 연관 저록 및 관련 기술사항 설명
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.20. localHolding

Property Name	eadlon:localHolding
URI	http://eadl.asia/ontology/localHolding
Label	local holding
	馆藏信息
	所蔵情報
	소장정보
Definition	This property describes the library code and the registration number, volume and annual symbol, duplicate symbol, and other symbols of each library in each local library.
	一种特定机构收藏的一种特定出版物，须有唯一的书目记录，含有的馆藏位置、出借状态和复本数量等信息
	各館の図書館コード、登録番号、巻号情報、刊行情報、複本情報、その他
	각 로컬도서관의 도서관 부호, 소장자료의 등록번호, 권·연차기호, 복본기호, 별치기호 등 기술
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional

3.1.21. materialType

Property Name	eadlon:materialType
URI	http://eadl.asia/ontology/materialType

Label	material Type
	资源类型
	資料種別
	자료 유형
Definition	Material type of DigitizedObject
	资源类型
	デジタル化された資料の種別
	디지털 객체의 자료유형
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.22. medium

Property Name	eadlon:medium
URI	http://eadl.asia/ontology/medium
Label	medium
	媒体
	媒体
	매체
Definition	This property describes the display of media showing characteristics of different types of data besides printed material.
	不同多媒体资源类型
	情報資源の材料又は物理的な容器
	인쇄자료 외 각종 미디어 자료의 유형과 종별 성격을 나타낼 수 있는 특성을 기술함
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.23. ndc

Property Name	eadlon:ndc

URI	http://eadl.asia/ontology/ndc
Label	NDC
Definition	Nippon Decimal Classification
	日本十进分类法
	日本十進分類法
	일본십진분류법
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.24. ndc8

Property Name	eadlon:ndc8
URI	http://eadl.asia/ontology/ndc8
Label	NDC8
Definition	Nippon Decimal Classification Edition 8
	日本十进分类法 第八版
	日本十進分類法新訂 8 版
	일본십진분류법 8 판
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.25. ndc9

Property Name	eadlon:ndc9
URI	http://eadl.asia/ontology/ndc8
Label	NDC9
Definition	Nippon Decimal Classification Edition 9
	日本十进分类法 第九版
	日本十進分類法新訂 9 版
	일본십진분류법 9 판

Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.26. ndc10

Property Name	eadlon:ndc10
URI	http://eadl.asia/ontology/ndc8
Label	NDC10
Definition	Nippon Decimal Classification Edition 10
	日本十进分类法 第十版
	日本十進分類法新訂 10 版（最新版）
	일본십진분류법 10 판
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.27. nextVolume

Property Name	eadlon:nextVolume
URI	http://eadl.asia/ontology/nextVolume
Label	next volume
	下卷
	後の巻号
	이후 볼륨
Definition	A link to the volume of DigitizedObject that follows the current one.
	下一个资源链接
	後の巻へのリンク
	개체가 연속되는 경우의 다음 볼륨 번호
Domain	eadlon:DigitizedObject
Range	eadlon:DigitizedObject

InverseOf	eadlon:previousVolume
Obligation	optional
Occurrence	A resource may have at most one next volume.

3.1.28. numImageFiles

Property Name	eadlon:numImageFiles
URI	http://eadl.asia/ontology/numImageFiles
Label	num image files
	图像文件数量
	画像ファイル数
	이미지 파일 수
Definition	The number of image files contained in a collection of documents
	资源中包含的图像文件数量
	資料に含まれる画像ファイルの数
	디지털컬렉션에 포함되는 이미지 파일의 수
Domain	eadlon:DigitizedObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.29. numVolumes

Property Name	eadlon:numVolumes
URI	http://eadl.asia/ontology/numVolumes
Label	num volumes
	卷册数
	巻数または冊数
	볼륨수
Definition	The number of volumes
	卷数
	巻数または冊数
	볼륨 수
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject

Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.30. original

Property Name	eadlon:original
URI	http://eadl.asia/ontology/original
Label	original
	原始资料
	原資料
	원본
Definition	Relates a DigitizedObject to origin data that was digitized, EADLObject
	数字化之前的原文
	デジタル化された元の資料
	디지털 객체의 원본 자료
Domain	eadlon:DigitizedObject
Range	eadlon:EADLObject
InverseOf	eadlon:digitized
Obligation	mandatory
Occurrence	A resource may have only 1 original resource. Conversely, a resource may digitize 0 to many resources.

3.1.31. originalLanguage

Property Name	eadlon:originalLanguage
URI	http://eadl.asia/ontology/originalLanguage
Label	original language
	初始语言
	原文の言語
	원본 언어
Definition	A language of the original data
	原文的语言
	当該資料が翻訳である場合の原文の言語
	원본 데이터의 언어

Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.32. otherNumber

Property Name	eadlon:otherNumber
URI	http://eadl.asia/ontology/otherNumber
Label	other number
	其他分类号
	他の分類記号
	기타 분류기호
Definition	Other classification number
	其他分类号
	韓国国立中央図書館の他の分類記号
	기타 분류 기호
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.1.33. previousVolume

Property Name	eadlon:previousVolume
URI	http://eadl.asia/ontology/previousVolume
Label	previous volume
	上卷
	前の巻号
	이전 볼륨
Definition	A link to the volume of DigitizedObject that precedes the current one.
	上一个资源链接
	前の巻へのリンク

	개체가 연속되는 경우 이전 볼륨 번호
Domain	eadlon:DigitizedObject
Range	eadlon:DigitizedObject
InverseOf	eadlon:nextVolume
Obligation	optional
Occurrence	A resource may have at most one previous volume.

3.1.34. providedIn

Property Name	eadlon:providedIn
URI	http://eadl.asia/ontology/providedIn
Label	provided in
	数据提供国家
	データ提供国
	데이터 제공국가
Definition	A country that provided the data
	提供数据的国家
	データを提供した国
	데이터 제공 국가
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Range	rdfs:Literal
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.1.35. publicationPlace

Property Name	eadlon:publicationPlace
URI	http://eadl.asia/ontology/publicationPlace
Label	publication place
	出版地
	出版地
	발행지
Definition	A publication place associated with the data
	出版发行地

	出版地
	데이터 발행 지역
Domain	eadlon:DigitizedObject
	or eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.36. resolution

Property Name	eadlon:resolution
URI	http://eadl.asia/ontology/resolution
Label	resolution
	分辨率
	解像度
	해상도
Definition	The resolution of an image is how clear the image is.
	图像的分辨率
	解像度
	디지털 이미지의 정밀도를 나타내는 지표
Domain	schema:ImageObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.37. scanRatio

Property Name	eadlon:scanRatio
URI	http://eadl.asia/ontology/scanRatio
Label	scan ratio
	扫描率
	スキャン比率
	스캔율
Definition	Scan ratio
	扫描率

	スキャン比率
	스캔 비율
Domain	schema:ImageObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.1.38. sourceOfOtherNumber

Property Name	eadlon:sourceOfOtherNumber
URI	http://eadl.asia/ontology/sourceOfOtherNumber
Label	source of other number
	其他分类号来源
	他の分類記号の情報源
	분류기호 정보원
Definition	Source of other classification number
	其他分类号来源
	他の分類記号の情報源
	분류기호의 정보원
Domain	eadlon:DigitizedObject **or** eadlon:EADLObject
Range	rdfs:Literal
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.2. DC Properties

3.2.1. DC contributor

Property Name	dc:contributor
URI	http://purl.org/dc/elements/1.1/contributor
Label	Contributor
Definition	An entity responsible for making contributions to the resource.
Comment	Examples of a Contributor include a person, an organization, or a service. Typically, the name of a Contributor should be used to indicate the entity.

Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.2.2. DC creator

Property Name	dc:creator
URI	http://purl.org/dc/elements/1.1/creator
Label	Creator
Definition	An entity primarily responsible for making the resource.
Comment	Examples of a Creator include a person, an organization, or a service. Typically, the name of a Creator should be used to indicate the entity.
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.2.3. DC format

Property Name	dc:format
URI	http://purl.org/dc/elements/1.1/format
Label	Format
Definition	The file format, physical medium, or dimensions of the resource.
Comment	Examples of dimensions include size and duration. Recommended best practice is to use a controlled vocabulary such as the list of Internet Media Types [MIME].
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: 1

3.2.4. DC language

Property Name	dc:language
URI	http://purl.org/dc/elements/1.1/language
Label	Language
Definition	A language of the resource.
Comment	Recommended best practice is to use a controlled vocabulary such as RFC 4646 [RFC4646].
Obligation	optional

Occurrence	Minimum: 0, Maximum: 1

3.2.5. DC publisher

Property Name	dc:publisher
URI	http://purl.org/dc/elements/1.1/publisher
Label	Publisher
Definition	An entity responsible for making the resource available.
Comment	Examples of a Publisher include a person, an organization, or a service. Typically, the name of a Publisher should be used to indicate the entity.
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.2.6. DC rights

Property Name	dc:rights
URI	http://purl.org/dc/elements/1.1/rights
Label	Rights
Definition	Information about rights held in and over the resource.
Comment	Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights.
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.2.7. DC subject

Property Name	dc:subject
URI	http://purl.org/dc/elements/1.1/subject
Label	Subject
Definition	The topic of the resource.
Comment	Typically, the subject will be represented using keywords, key phrases, or classification codes. Recommended best practice is to use a controlled vocabulary. To describe the spatial or temporal topic of the resource, use the Coverage element.
Obligation	optional

Occurrence	Minimum: 0, Maximum: unbounded

3.3. DCTerms Properties

3.3.1. DCTerms abstract

Property Name	dct:abstract
URI	http://purl.org/dc/terms/abstract
Label	Abstract
Definition	A summary of the resource.
SubPropertyOf	dc:description dct:description
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.2. DCTerms alternative

Property Name	dct:alternative
URI	http://purl.org/dc/terms/alternative
Label	Alternative Title
Definition	An alternative name for the resource.
Comment	The distinction between titles and alternative titles is application-specific.
Range	rdfs:Literal
SubPropertyOf	dc:title dct:title
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.3. DCTerms creator

Property Name	dct:creator
URI	http://purl.org/dc/terms/creator
Label	Creator
Definition	An entity primarily responsible for making the resource.
Comment	Examples of a Creator include a person, an organization, or a service.

Range	terms:Agent
SubPropertyOf	dc:creator
	dct:contributor
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.4. DCTerms date

Property Name	dct:date
URI	http://purl.org/dc/terms/date
Label	Date
Definition	A point or period of time associated with an event in the lifecycle of the resource.
Comment	Date may be used to express temporal information at any level of granularity. Recommended best practice is to use an encoding scheme, such as the W3CDTF profile of ISO 8601 [W3CDTF].
Range	rdfs:Literal
SubPropertyOf	dc:date
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.3.5. DCTerms description

Property Name	dct:description
URI	http://purl.org/dc/terms/description
Label	Description
Definition	An account of the resource.
Comment	Description may include but is not limited to: an abstract, a table of contents, a graphical representation, or a free-text account of the resource.
SubPropertyOf	dc:description
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.6. DCTerms issued

Property Name	dct:issued
URI	http://purl.org/dc/terms/issued
Label	Date Issued
Definition	Date of formal issuance (e.g., publication) of the resource.
Range	rdfs:Literal
SubPropertyOf	dc:date dct:date
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.3.7. DCTerms source

Property Name	dct:source
URI	http://purl.org/dc/terms/source
Label	Source
Definition	A related resource from which the described resource is derived.
Comment	The described resource may be derived from the related resource in whole or in part. Recommended best practice is to identify the related resource by means of a string conforming to a formal identification system.
SubPropertyOf	dc:source dct:relation
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.8. DCTerms subject

Property Name	dct:subject
URI	http://purl.org/dc/terms/subject
Label	Subject
Definition	The topic of the resource.
Comment	Typically, the subject will be represented using keywords, key phrases, or classification codes. Recommended best practice is to use a controlled vocabulary. To describe the spatial or temporal topic of the resource, use the Coverage element.

SubPropertyOf	dc:subject
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.9. DCTerms tableOfContents

Property Name	dct:tableOfContents
URI	http://purl.org/dc/terms/tableOfContents
Label	Table Of Contents
Definition	A list of subunits of the resource.
SubPropertyOf	dc:description dct:description
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.3.10. DCTerms title

Property Name	dct:title
URI	http://purl.org/dc/terms/title
Label	Title
Definition	A name given to the resource.
Range	rdfs:Literal
SubPropertyOf	dc:title
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.4. FOAF Properties

3.4.1. FOAF depiction

Property Name	foaf:depiction
URI	http://xmlns.com/foaf/0.1/depiction
Label	depiction
Definition	A depiction of something.
Range	foaf:Image

Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.4.2. FOAF primaryTopic (for System)

Property Name	foaf:primaryTopic
URI	http://xmlns.com/foaf/0.1/primaryTopic
Label	primaryTopic
Definition	The primary topic of some page or document.
Domain	foaf:Document
Obligation	optional

3.4.3. FOAF thumbnail

Property Name	foaf:thumbnail
URI	http://xmlns.com/foaf/0.1/thumbnail
Label	thumbnail
Definition	A derived thumbnail image.
Domain	foaf:Image
Range	foaf:Image
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5. SCHEMA Properties

3.5.1. SCHEMA audience

Property Name	schema:audience
URI	http://schema.org/audience
Label	audience
Definition	An intended audience, i.e. a group for whom something was created.
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5.2. SCHEMA bookEdition

Property Name	schema:bookEdition
URI	http://schema.org/bookEdition
Label	bookEdition
Definition	The edition of the book.
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.5.3. SCHEMA category

Property Name	schema:category
URI	http://schema.org/category
Label	category
Definition	A category for the item. Greater signs or slashes can be used to informally indicate a category hierarchy.
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.5.4. SCHEMA dateCreated

Property Name	schema:dateCreated
URI	http://schema.org/dateCreated
Label	dateCreated
Definition	The date on which the CreativeWork was created or the item was added to a DataFeed.
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: 1

3.5.5. SCHEMA genre

Property Name	schema:genre
URI	http://schema.org/genre
Label	genre
Definition	Genre of the creative work or group.

Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5.6. SCHEMA image

Property Name	schema:image
URI	http://schema.org/image
Label	image
Definition	An image of the item. This can be a URL or a fully described ImageObject.
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.5.7. SCHEMA isbn

Property Name	schema:isbn
URI	http://schema.org/isbn
Label	isbn
Definition	The ISBN of the book.
EquivalentProperty	http://purl.org/ontology/bibo/isbn
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5.8. SCHEMA issn

Property Name	schema:issn
URI	http://schema.org/issn
Label	issn
Definition	The International Standard Serial Number (ISSN) that identifies this periodical. You can repeat this property to (for example) identify different formats of this periodical.
EquivalentProperty	http://purl.org/ontology/bibo/issn
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5.9. SCHEMA nextItem

Property Name	schema:nextItem
URI	http://schema.org/nextItem
Label	nextItem
Definition	A link to the ListItem that follows the current one.
Obligation	optional
Occurrence	A resource may have at most one next item.

3.5.10. SCHEMA position

Property Name	schema:position
URI	http://schema.org/position
Label	position
Definition	The position of an item in a series or sequence of items.
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: 1

3.5.11. SCHEMA previousItem

Property Name	schema:previousItem
URI	http://schema.org/previousItem
Label	previousItem
Definition	A link to the ListItem that preceeds the current one.
Obligation	optional
Occurrence	A resource may have at most one previous item.

3.5.12. SCHEMA provider

Property Name	schema:provider
URI	http://schema.org/provider
Label	provider
Definition	The service provider, service operator, or service performer; the goods producer. Another party (a seller) may offer those services or goods on behalf of the provider. A provider may also serve as the seller.

Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.5.13. SCHEMA volumeNumber

Property Name	schema:volumeNumber
URI	http://schema.org/volumeNumber
Label	volumeNumber
Definition	Identifies the volume of publication or multi-part work; for example, "iii" or "2".
SubPropertyOf	schema:position
EquivalentProperty	http://purl.org/ontology/bibo/volume
Obligation	optional
Occurrence	Minimum: 0, Maximum: 1

3.6. RDFS Properties

3.6.1. RDFS label

Property Name	rdfs:label
URI	http://www.w3.org/2000/01/rdf-schema#label
Label	label
Definition	A human-readable name for the subject.
Obligation	mandatory
Occurrence	Minimum: 1, Maximum: unbounded

3.6.2. RDFS seeAlso

Property Name	rdfs:seeAlso
URI	http://www.w3.org/2000/01/rdf-schema#seeAlso
Label	seeAlso
Definition	Further information about the subject resource.
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded

3.7. OWL Properties

3.7.1. OWL sameAs

Property Name	owl:sameAs
URI	http://www.w3.org/2002/07/owl#sameAs
Label	sameAs
Definition	The property that determines that two given individuals are equal.
Domain	owl:Thing
Range	owl:Thing
Obligation	optional
Occurrence	Minimum: 0, Maximum: unbounded