

Data Category specifications

Mandatory parts of the specification to be provided by the user

- For each data category:
 - a mnemonic identifier
 - an English definition
 - an English name
- For complex data categories:
 - a conceptual domain
- For standardization candidates:
 - a profile (other than Private)
 - a justification

Data Category example

- **Closed** data category: */grammatical gender/*
 - Administrative part:
 - Identifier: grammaticalGender
 - PID: <http://www.isocat.org/datcat/DC-1297>
 - **Justification: Used in Morphosyntax, Terminology, Lexicography**
 - Descriptive part:
 - **Profile: Morphosyntax**
 - English name: grammatical gender
 - English definition: Category based on (depending on languages) the natural distinction between sex and formal criteria.
 - Linguistic part:
 - **Morphosyntax** conceptual domain: */male/, /feminine/, /neuter/*

Data category identifiers

- a mnemonic string used to refer to the data category
 - not unique (PIDs are unique), i.e., multiple categories with the same identifier might exist due to different owners, thematic domains, versions,
- should be based on a meaningful English word or series of words presented as an alphanumeric character string; for multiword strings, begin with lowercase and express the identifier as one continuous string in camel case with no white space
- maybe used in XML vocabularies and thus must be a valid local part of a qualified name:
 - cannot start with a number, shouldn't contain any whitespace, ...
- for example: not */1stPerson/* but */firstPerson/*, not */EVON/* but */singularNeuterForm/*

Persistent Identifiers

- Each Data Category should be uniquely identifiable
 - Ambiguity: different domains use the same term but mean different ‘things’
 - Semantic rot: even in the same domain the meaning of a term changes over time
 - Persistence: for archived resources Data Category references should still be resolvable and point to the specification as it was at/close to time of creation
- Persistent Identifier
 - ISO 24619:2011 Language resource management -- Persistent identification and access in language technology applications
 - ISOcat uses ‘cool URIs’
 - <http://www.isocat.org/datcat/DC-1297> (*/grammaticalGender/*)
 - managed by the system

Justification

- a short description justifying why the data category should be included in the registry
- mandatory for data categories to be standardized; desirable in general
- even data categories that are common in a given thematic domain may be unfamiliar or ambiguous to users unfamiliar with that domain

Thematic Domain Groups/profiles

- TDG 1: Metadata
- TDG 2: Morphosyntax
- TDG 3: Semantic Content Representation
- TDG 4: Syntax
- TDG 5: Machine Readable Dictionary
- TDG 6: Language Resource Ontology
- TDG 7: Lexicography
- TDG 8: Language Codes
- TDG 9: Terminology
- TDG 11: Multilingual Information Management
- TDG 12: Lexical Resources
- TDG 13: Lexical Semantics
- TDG 14: Source Identification

Data Element Name Sections

- used to record names for the data category as used in a given database, format or application
- language independent
- attributes:
 - the mandatory data element name
 - one identifier (word, multi-word unit or (alpha)numeric representation)
 - the mandatory source
 - the database, format or application in which the data element name is used
- proper place to mention abbreviations/tags used for a particular notion, and not just for English: N, NPlur, EVON

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 - Justification: Used in Morphosyntax, Terminology, Lexicography
 - Descriptive part:
 - Profile: Morphosyntax
 - **Data Element Name: GramGender in Text Meaning Representation**
 - English name: grammatical gender
 - English definition: Category based on (depending on languages) the natural distinction between sex and formal criteria.
 - Linguistic part:
 - Morphosyntax conceptual domain: */male/, /feminine/, /neuter/*

Working and object languages

- Working language:
 - language used to describe objects
- Object language:
 - language being described

You can describe properties of the object language French in the working language Dutch:

In de Franse taal worden vrouwelijke en mannelijk zelfstandige naamwoorden onderscheiden.

Language sections

- Provide the correct full name(s) in the working language at hand
 - mark the status of the name: deprecated, admitted, preferred, standardized
- Provide one precise definition in the working language at hand
 - the data model provides place for multiple definitions, but this just leads to confusion

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 - Justification: Used in Morphosyntax, Terminology, Lexicography
 - Descriptive part:
 - Profile: Morphosyntax
 - Data Element Name: GramGender in Text Meaning Representation
 - English name: grammatical gender
 - English definition: Category based on (depending on languages) the natural distinction between sex and formal criteria.
 - French name: **genre grammatical**
 - French definition: **Catégorie fondée (selon la langue) sur la distinction naturelle entre les sexes ou d'autres critères formels.**
 - Linguistic part:
 - Morphosyntax conceptual domain: */male/, /feminine/, /neuter/*
 - French conceptual domain: */male/, /feminine/*

Conceptual domains

- The mandatory data type
 - the data type, as defined for [W3C XML Schema](#), of this complex data category
 - the default data type is *string*
- Additionally:
 - closed data categories:
 - set of permissible values (simple data categories) for each profile
 - constrained data categories:
 - constraint specified in a supported rule language
 - e.g., an XML Schema regular expression or facet

Profile value domains and (hierarchies of) simple data categories

Data category	Morposyntax	Terminology
● <i>/partOfSpeech/</i>	X	X
● <i>/adjective/</i>	X	X
● <i>/ordinalAdjective/</i>	X	
● <i>/participleAdjective/</i>	X	
● <i>/qualifierAdjective/</i>	X	
● <i>/adposition/</i>	X	X
● <i>/circumposition/</i>	X	
● <i>/preposition/</i>	X	
● <i>/postposition/</i>	X	

Bulk import

- The ISOcat system administrator can import bulks of new Data Categories or updates

<http://www.isocat.org/forum/viewtopic.php?f=3&t=14>