A wiki syntax for
DC Description Set Profiles

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DSP wiki syntax, why?

- Most Annotation Profile are basically webpages
- Combines the formal expression of a DSP together with Annotation Profile documentation.
- From the wiki-syntax create:
  - An **HTML page** can be created for human consumption
  - An **XML**-serialization for the DSP
- Easy to use(learn) and maintain
Design goals and syntax

- As easy to express as possible
- Mix normal and specific DSP wiki-syntax
- 4 basic structures
  - DT, for the Description Template
  - ST, for the Statement Template
  - NLC, for the Non-literal value constraint
  - LC, for the Literal value constraint
- Reuse of Hierarchical structure of DSP
  - An ST belongs to the DT it is declared under
  - An LC or NLC belongs to the ST it is declared under
Description Template

• Declaration of a Description Template:
  • identifier
  • minimum and maximum occurrence
  • standalone
  • Resource Class Membership Constraint

DT=(min="1" max="1" standalone="yes"
    identifier="book")
Statement Template

• Declaration:
• Minimum and maximum occurrence
• Type (Literal or Non-literal)
• Property list constraints or sub-property

ST=(max="1" type="literal"
    PC={http://purl.org/dc/terms/title})
Literal Constraint

• Syntax Encoding Scheme
  • occurrence
  • list of possible schemas
  
  SESConstraint=(occurrence="disallowed")

• Language Constraint
  • occurrence
  • list of languages
  
  LangC=(occurrence="disallowed")

• Literal list (with SES or language)
  
  {[value="example" lang="en"], [value="exempel" lang="sv"]}
Non-literal value constraint

- Vocabulary Encoding Scheme
  - Occurrence
  - List of possible values

VESConstraint=( occurrence="optional" { http://www.example.com/uri3})

- Value URI constraint
  - occurrence
  - List of possible URIs

VURIConstraint=( occurrence="optional" {http://www.example.com/uri1})
Non-literal value constraint, continued

- Description
  
description="agent"

- Class membership
  
{}

- Value String
  
  - maximum and minimum occurrence
  
  - rest is declared the same way as Literal Value Constraint

  VStringConstraint=(max="1"
  LangC=(occurrence="disallowed")
Example

{{{#!DSP
== Description template: Book ==
DT=(min="1" max="1" standalone="yes" identifier="book")

=== Title ===
ST=(max="1" type="literal" PC={http://purl.org/dc/terms/title})
|| Definition || A name given to the resource. ||
LC=(LangC=(occurrence="optional") SESConstraint=(occurrence="disallowed") )

=== Creator ===
ST=(max="1" type="nonliteral" PC={http://purl.org/dc/terms/creator})
|| Definition || An entity primarily responsible for making the resource. ||
NLC=(VURIConstraint=(occurrence="disallowed") VESConstraint=(occurrence="disallowed")
     VStringConstraint=(max="1" LangC=(occurrence="disallowed")
     SESConstraint=(occurrence="disallowed")) description="creator" )

== Description template: Creator ==
DT=(min="1" max="1" standalone="no" identifier="creator")

=== Name ===
ST=(max="1" type="literal" PC={http://xmlns.com/foaf/0.1/name})
|| Definition || A name for some thing. ||
LC=(LangC=(occurrence="disallowed") SESConstraint=(occurrence="disallowed") )
}}}} //closing brackets