



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")
```

DT 1

```
=== 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")
```

DT 2

```
=== 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