

# Dublin Core Tabular Application Profile (DC TAP)

## 12 elements:

shapeID  
shapeLabel  
propertyID  
propertyLabel  
note  
mandatory  
repeatable  
valueNodeType  
valueDatatype  
valueConstraint  
valueConstraintType

create a profile using up to 12 columns

Start

propertyID	propertyLabel
dct:title	Course title
sdo:startDate	Start date

Select properties you need from existing vocabularies

types

propertyID	property Label	valueNode Type	value DataType
dct:title	Course title	literal	xsd:string
sdo:startDate	Start date	literal	xsd:date

Define your datatypes

Cardinality

propertyID	property Label	mandatory	repeatable	valueNode Type	value DataType
dct:title	Course title	true	false	literal	xsd:string
sdo:startDate	Start date	true	false	literal	xsd:date

Say what is mandatory, optional, repeatable

connect shapes in the profile

Shapes

Create shapes for the entities in your metadata

ShapeID	Shape Label	propertyID	property Label	mandatory	repeatable	valueNode Type	value DataType	value Shape
:course	Course	dct:title	Course title	true	false	literal	xsd:string	
		sdo:startDate	Start date	true	false	literal	xsd:date	
		dct:creator	Teacher	false	true			:prof
:prof	Teacher	foaf:name	Name	true	false	IRI		
		sdo:department	Department	true	false	IRI		

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ShapeID	Shape Label	propertyID	property Label	mandatory	repeatable	valueNode Type	value Constraint	value Constraint Type
:prof	Teacher	foaf:name	Name	true	false	IRI	ex:profList	URI stem
		sdo:department	Department	true	false	IRI	History, Mathematics, Science	picklist

Add constraints on values: URI stems (online term lists), pick lists, etc.

Saved in machine-readable form

Is saved as Comma Separated Values (CSV)

```
shapeID,shapeLabel,propertyID,propertyLabel,mandatory,repeatable,valueNodeType,valueDataType,valueShape
:course,Course,dct:title,Course title,true,false,literal,xsd:string,
,,sdo:startDate,Start date,true,false,literal,xsd:date,
,,dct:creator,Teacher,false,true,,:prof,
... etc.
```

Create forms

Input form

TAP can be used to assure quality in metadata creation



Watch the video!  
[https://www.youtube.com/watch?v=p\\_aSCI\\_SxX0](https://www.youtube.com/watch?v=p_aSCI_SxX0)

Define validation

Validation programs for existing metadata

Validation schema

Instance data created

```
dct:title "Applied mathematics" ;
sdo:startDate "01/09/2021" ;
dct:creator _b1
_b1 foaf:name ex:prof123 ;
_b1 sdo:department ex:dept74
```

Instance data validated