

A Sample Codebook in DDI4 XML

Larry Hoyle, IPSR, University of Kansas

Australia

Clive Bean, Queensland University of Technology
Ian McAllister, The Australian National University
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Rachel Kay Gibson, University of Manchester

Australian Election Study, 2013

Original documentation in DDI2 (Nesstar)

Study Documentation

Used by permission from: https://www.australianelectionstudy.org/voter_studies.html
<http://nesstar.ada.edu.au/webview/velocity?study=http://150.203.254.120:80/obj/fStudy/au.edu.anu.ada.ddi.01259&format=pdf&mode=transform&s&gs>

Australia

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Australian Election Study, 2013

Study Documentation

<https://drive.google.com/drive/folders/1psWuBbyqeKEfyB9wC4NJP9rab46dEAHU>

Clive Bean, Queensland University of Technology

A Contributor

```
<Contributor> <!-- Bean -->
  <AgentName>
    <LanguageSpecificString>Bean, Clive</LanguageSpecificString>
  </AgentName>
  <AgentAssociation
typeOfClass="Individual">URN:DDI:dagstuhl17423.ddialliance.org:IdBean:1
  </AgentAssociation>
```



Referencing reusable information about the individual

DDI4 URN Referencing another DDI object

URN:DDI:dagstuhl17423.ddialliance.org:ldBean:1

A Structured String with these parts:

What is it? - A URN

URN:DDI:dagstuhl17423.ddialliance.org:ldBean:1

What Kind of URN?

URN:**DDI:**dagstuhl17423.ddialliance.org:ldBean:1

Agency: Who Manages the ID space?

URN:DDI:**dagstuhl17423.ddialliance.org:**ldBean:1

ID: What is the ID?

URN:DDI:dagstuhl17423.ddialliance.org:**ldBean:**1

Version: What Version?

URN:DDI:dagstuhl17423.ddialliance.org:ldBean:**1**

Documenting a Person, Including Roles

Clive Bean, Queensland University of Technology
Ian McAllister, The Australian National University
Juliet Pietsch, The Australian National University
Rachel Kay Gibson, University of Manchester

**Lead Author
Role**

<Role>

<Term>

<Content>**cro:Author**</Content>

<Uri>

<https://github.com/openrif/contribution-ontology/blob/master/diagrams/ContributionRoleHierarchy.png>

</Uri>

</Term>

<Extent>

<Content>**Lead**</Content>

</Extent>

</Role>

Documenting a Person, Including Roles

Clive Bean, Queensland University of Technology

Lead Author

Primary Investigator(s)	Clive Bean, Queensland University of Technology Ian McAllister, The Australian National University Juliet Pietsch, The Australian National University Rachel Kay Gibson, University of Manchester
Other Producer(s)	Clive Bean (QUT) , Queensland University of Technology , Primary Investigator Ian McAllister (ANU) , Australian National University , Primary Investigator The Social Research Centre (SRC) , Data Collectors

Primary Investigator Role

<Role>

<Term>

<Content>

“cro:” Referencing the Contribution Role Ontology

cro:Study Investigator Role

</Content>

<Uri>

<https://github.com/openrif/contribution-ontology/blob/master/diagrams/ContributionRoleHierarchy.png>

</Uri>

</Term>

<Extent>

<Content>**Lead**</Content>

</Extent></Role>

</Contributor>

Organizational Credit

Metadata Producer(s) Australian Data Archive (ADA) , The Australian National University

```
<Publisher> <!-- Distributer ADA -->
  <AgentName>
    <LanguageSpecificString>
      Australian Data Archive
    </LanguageSpecificString>
  </AgentName>
  <AgentAssociation typeOfClass="Organization">
    URN:DDI:dagstuhl17423.ddialliance.org:IdOrgADA:1
  </AgentAssociation>
  <Role>
    <Term>
      <Content>
        cro:Archivist Role
      </Content>
      <Uri>https://github.com/openrif/contribution-ontology/blob/master/diagrams/ContributionRoleHierarchy.png</Uri>
    </Term>
    <Extent><Content>Lead</Content></Extent>
  </Role>
</Publisher>
```


References in DDI4: Agency, ID, and Version via URN

```
<AgentAssociation typeOfClass="Organization">
```

URN:DDI:dagstuhl17423.ddialliance.org:IdOrgADA:1

```
</AgentAssociation>
```

References **Reusable** information about the organization

```
<Organization> <!-- ADA -->
```

```
<Agency>dagstuhl17423.ddialliance.org</Agency>
```

```
<Version>1</Version>
```

```
<Id>IdOrgADA</Id>
```

```
<HasOrganizationName>
```

```
<Content>Australian Data Archive (ADA)</Content>
```

```
</HasOrganizationName>
```

```
<HasContactInformation>
```

```
<HasAddress>
```

```
<LocationName>
```

```
<Content>The Australian National University</Content>
```

```
</LocationName>
```

```
</HasAddress>
```

```
</HasContactInformation>
```

```
</Organization>
```

Properties: annotation kindOfData overview bibliographicCitation

Relationships

- Concept
 - ExternalMaterial
 - StudySeries
 - AuthorizationSource
 - FundingInformation
 - Budget
 - Access
 - Embargo
 - Quality Statement
 - Coverage
 - ImplementedInstrument
- UnitType
 - Universe
 - Population
 - DesignOverview
 - ProcessOverview
 - MethodologyOverview
 - AlgorithmOverview
 - SamplingProcedure
 - VariableCollection
 - InstanceVariable
 - ExPostEvaluation

Coverage: Topical, Temporal, Spatial

Scope & Coverage	
Keywords	Attitudes, Defence, Economic policy, Elections, Environment, Ethnic groups, Immigration, International relations, Internet, Political parties, Politicians, Politics, Republicanism, Shares, Social policy, Taxation
Topics	Politics, Election and Campaign Studies
Time Period(s)	2013-2014
Countries	Australia

<Coverage>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>IdCoverage</Id>

<HasSpatialCoverage typeOfClass="SpatialCoverage">

URN:DDI:dagstuhl17423.ddialliance.org:IdSpatialCoverage:1

</HasSpatialCoverage>

<HasTemporalCoverage typeOfClass="TemporalCoverage">

URN:DDI:dagstuhl17423.ddialliance.org:IdTemporalCoverage:1

</HasTemporalCoverage>

<HasTopicalCoverage typeOfClass="TopicalCoverage">

URN:DDI:dagstuhl17423.ddialliance.org:IdTopicalCoverage:1

</HasTopicalCoverage>

</Coverage>

Coverage: Topical - Keywords

Scope & Coverage	
Keywords	Attitudes, Defence, Economic policy, Elections, Environment, Ethnic groups, Immigration, International relations, Internet, Political parties, Politicians, Politics, Republicanism, Shares, Social policy, Taxation

<TopicalCoverage>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>**IdTopicalCoverage**</Id>

<Keyword><Content>Attitudes</Content></Keyword>

<Keyword><Content>Defence</Content></Keyword>

<Keyword><Content>Economic policy</Content></Keyword>

<Keyword><Content>Elections</Content></Keyword>

<Keyword><Content>Environment</Content></Keyword>

<Keyword><Content>Ethnic groups</Content></Keyword>

<Keyword><Content>Immigration</Content></Keyword>



Keyword is of type ExternalControlledVocabularyEntry

<Keyword><Content>Defence</Content></Keyword>

Name	Cardinality	Datatype	Description
controlledVocabularyID	0..1	xs:string	The ID of the code list (controlled vocabulary) that the content was taken from.
controlledVocabularyName	0..1	xs:string	The name of the code list.
controlledVocabularyAgencyName	0..1	xs:string	The name of the agency maintaining the code list.
controlledVocabularyVersionID	0..1	xs:string	The version number of the code list (default is 1.0).
otherValue	0..1	xs:string	If the value of the string is "Other" or the equivalent from the codelist, this attribute can provide a more specific value not found in the codelist.
uri	0..1	xs:anyURI	The URN or URL of the controlled vocabulary
content	0..1	xs:string	The value of the entry of the controlled vocabulary. If no controlled vocabulary is used the term is entered here and none of the properties defining the controlled vocabulary location are used.
language	0..1	xs:language	Language of the content value if applicable

We saw this before

Term is of type ExternalControlledVocabularyEntry

```
<Term>
  <Content>
    cro:Archivist Role
  </Content>
  <Uri>https://github.com/openrif/contribution-ontology/blob/master/diagrams/ContributionRoleHierarchy.png
</Uri>
</Term>
```

Property	Cardinality	Domain	Description
uri	0..1	xs:anyURI	The URN or URL of the controlled vocabulary
content	0..1	xs:string	The value of the entry of the controlled vocabulary. If no controlled vocabulary is used the term is entered here and none of the properties defining the controlled vocabulary location are used.
language	0..1	xs:language	Language of the content value if applicable

“External” ControlledVocabulary

The URI could be a DDI4 URN, indicating a shared (reusable) vocabulary described in DDI4



The screenshot shows the DDI Moving Forward website interface. At the top, there is a green header with the DDI 4 logo and the text "DDI Moving Forward" and "Capturing platform for the DDI4 model". Below the header is a navigation bar with buttons for "Home", "All objects", "Packages", "Views", "Imported from DDI 3.2", "Help", "Issues", and "Builds".

The main content area is titled "ControlledVocabulary". It features a search bar on the left and a navigation bar with buttons for "View", "What links here", and "Revision operations".

The entry details are as follows:

- Submitted by larry on Fri, 05/29/2015 - 03:10
- Package:** [CustomMetadata](#)
- Extends:** [AnnotatedIdentifiable](#)
- Version:** 1
- Is Abstract:** no
- Is Pattern:** no
- Status: [Proposal in progress](#)
- Definition:**
The specification of a controlled vocabulary defines a set of values and their definitions together with the order relationships among those entries.

On the left side of the page, there are sections for "Downloads" (listing [xmi.xml](#) and [docbook.xml](#)) and "Navigation" (listing [Revision history](#) and [Views](#)).

Coverage: Topical – Topics (Subjects)

Scope & Coverage	
Keywords	Attitudes, Defence, Economic policy, Elections, Environment, Ethnic groups, Immigration, International relations, Internet, Political parties, Politicians, Politics, Republicanism, Shares, Social policy, Taxation
Topics	Politics, Election and Campaign Studies

<Subject><Content>Politics</Content></Subject>

<Subject>

<Content>Election and Campaign Studies</Content>

</Subject>

</TopicalCoverage>

Coverage: Temporal

Time Period(s)	2013-2014
-----------------------	-----------

Data Collection Dates	start 2013-09-06 end 2014-01-06
Time Period(s)	start 2013-09-01 end 2013-09-06

October 5, 2016

Metadata Production

Metadata Producer(s)	Australian Data Archive (ADA)
Production Date	October 13, 2010

Production Date: 2014-02-28

<TemporalCoverage>

<Agency>dagstuhl17423.ddalliance.org</Agency>

<Version>1</Version>

<Id>IdTemporalCoverage</Id>

<CoverageDate><IsoDate>**2013/2014**</IsoDate><Subject><Content>**Time Period(s)** </Content></Subject></CoverageDate>

<CoverageDate>

<IsoDate>**2013-09-01/2013-09-06**</IsoDate><Subject><Content>**Data Collection Time Period(s)**</Content></Subject>

</CoverageDate>

<CoverageDate><IsoDate>**2016_10_05**</IsoDate><Subject><Content>**Codebook Download**</Content></Subject></CoverageDate>

<CoverageDate><IsoDate>**2010_10_13**</IsoDate><Subject><Content>**Metadata Production**</Content></Subject></CoverageDate>

<CoverageDate><IsoDate>**2013**</IsoDate><Subject><Content>**Title**</Content></Subject></CoverageDate>

<CoverageDate><IsoDate>**2014-02-28**</IsoDate><Subject><Content>**Production Date**</Content></Subject></CoverageDate>

<CoverageDate>

<IsoDate>**2013-09-06/2014-01-06**</IsoDate><Subject><Content>**Data Collection** </Content></Subject>

</CoverageDate>

</TemporalCoverage>

Coverage - Spatial

Geographic Coverage

National

Countries

Australia

<SpatialCoverage>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>IdSpatialCoverage</Id>

<SpatialAreaCode>

<Content>AU</Content>

<ControlledVocabularyName>ISO3166-1</ControlledVocabularyName>

</SpatialAreaCode>

Using ISO code for Australia

Referencing reusable “nation” and “Australia”

<LowestGeographicUnitTypeCovered

typeOfClass="UnitType">URN:DDI:dagstuhl17423.ddialliance.org:IdNationUnit:1</LowestGeographicUnitTypeCovered>

<IncludesGeographicUnit

typeOfClass="GeographicUnit">URN:DDI:dagstuhl17423.ddialliance.org:GeogUnit_1:1</IncludesGeographicUnit>

</SpatialCoverage>

Coverage - Spatial

Geographic Coverage

National

Reusable documentation for “Nation”

<UnitType>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>IdNationUnit</Id>

<Name><Content>Nation</Content></Name>

</UnitType>

Reusable documentation for “Australia”
as a Nation

Countries

Australia

<GeographicUnit>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>GeoUnit_1</Id>

<Name><Content>Australia</Content></Name>

<HasUnitType typeOfClass="UnitType">

URN:DDI:dagstuhl17423.ddialliance.org:IdNationUnit:1

</HasUnitType>

</GeographicUnit>

Properties

- title
- subtitle
- alternativeTitle
- creator
- publisher
- contributor
- date
- languageOfObject
- Identifier
- copyright
- typeOfResource
- informationSource
- versionIdentification
- versioningAgent
- abstract
- relatedResource
- provenance
- rights
- recordCreationDate
- recordLastRevisionDate

Annotation examples

Australian Election Study, 2013

<Title>

<LanguageSpecificString>Australian Election Study, 2013</LanguageSpecificString>

</Title>

Overview	
Type	Australian Election Study
Identification	au.edu.anu.ada.ddi.01259

<TypeOfResource><Content>Australian Election Study</Content></TypeOfResource>

<LocalId><LocalIdValue>au.edu.anu.ada.ddi.01259</LocalIdValue></LocalId>

Data - Variables

# A4: A4. Interest in election campaign				
Information		[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]		
Statistics [NW/ W]		[Valid=3915 / 3922.287] [Invalid=40 / 32.713]		
Literal question		And how much interest would you say you took in the election campaign overall?		
Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

```

<InstanceVariable> <!-- IdVarA4 -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarA4</Id>
  <Name><Content>a4</Content></Name>
  <DisplayLabel>
    <LanguageSpecificStructuredString>A4. Interest in election campaign</LanguageSpecificStructuredString>
  </DisplayLabel>
  <HasIntendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschema-2/#integer</Uri></HasIntendedDataType>
  <TakesSubstantiveValuesFrom
typeOfClass="SubstantiveValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSubA4:1</TakesSubstantiveValuesFrom>
  <TakesPlatformSpecificSentinelValues
typeOfClass="SentinelValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSenMinus1:1</TakesPlatformSpecificSentinelValues>
  <SourceCapture typeOfClass="RepresentedQuestion">URN:DDI:dagstuhl17423.ddialliance.org:IdQuestA4:1</SourceCapture>
</InstanceVariable>

```

Name and Label

Data - Variables

# A4: A4. Interest in election campaign				
Information		[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]		
Statistics [NW/ W]		[Valid=3915 / 3922.287] [Invalid=40 / 32.713]		
Literal question		And how much interest would you say you took in the election campaign overall?		
Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

```

<InstanceVariable> <!-- IdVarA4 -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarA4</Id>
  <Name><Content>a4</Content></Name>
  <DisplayLabel>
    <LanguageSpecificStructuredString>A4. Interest in election campaign</LanguageSpecificStructuredString>
  </DisplayLabel>
  <HasIntendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschema-
2/#integer</Uri></HasIntendedDataType>
  <TakesSubstantiveValuesFrom
typeOfClass="SubstantiveValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSubA4:1</TakesSubstantiveValuesFrom>
  <TakesPlatformSpecificSentinelValues
typeOfClass="SentinelValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSenMinus1:1</TakesPlatformSpecificSentinelValues>
  <SourceCapture typeOfClass="RepresentedQuestion">URN:DDI:dagstuhl17423.ddialliance.org:IdQuestA4:1</SourceCapture>
</InstanceVariable>

```

Intended datatype

Data - Variables

# A4: A4. Interest in election campaign	
Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]
Statistics [NW/ W]	[Valid=3915 / 3922.287] [Invalid=40 / 32.713]
Literal question	And how much interest would you say you took in the election campaign overall?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

```

<InstanceVariable> <!-- IdVarA4 -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarA4</Id>
  <Name><Content>a4</Content></Name>
  <DisplayLabel>
    <LanguageSpecificStructuredString>A4. Interest in election campaign</LanguageSpecificStructuredString>
  </DisplayLabel>
  <HasIntendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschema-
2/#integer</Uri></HasIntendedDataType>
  <TakesSubstantiveValuesFrom
typeOfClass="SubstantiveValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSubA4:1</TakesSubstantiveValue
sFrom>
    <TakesPlatformSpecificSentinelValues
typeOfClass="SentinelValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSenMinus1:1</TakesPlatformSpecificSentinelValues>
    <SourceCapture typeOfClass="RepresentedQuestion">URN:DDI:dagstuhl17423.ddialliance.org:IdQuestA4:1</SourceCapture>
  </InstanceVariable>
  
```

Substantive value domain (ISO11404)

Data - Variables

A4: A4. Interest in election campaign

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]
Statistics [NW/ W]	[Valid=3915 / 3922.287] [Invalid=40 / 32.713]
Literal question	And how much interest would you say you took in the election campaign overall?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
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3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

Warning: this figure indicates the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest

```

<InstanceVariable> <!-- IdVarA4 -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarA4</Id>
  <Name><Content>a4</Content></Name>
  <DisplayLabel>
    <LanguageSpecificStructuredString>A4. Interest in election campaign</LanguageSpecificStructuredString>
  </DisplayLabel>
  <HasIntendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschema-
2/#integer</Uri></HasIntendedDataType>
  <TakesSubstantiveValuesFrom
typeOfClass="SubstantiveValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSubA4:1</TakesSubstantiveValuesFrom>
  <TakesPlatformSpecificSentinelValues
typeOfClass="SentinelValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSenMinus1:1</TakesPlatformSpeci
ficSentinelValues>
  <SourceCapture typeOfClass="RepresentedQuestion">URN:DDI:dagstuhl17423.ddialliance.org:IdQuestA4:1</SourceCapture>
</InstanceVariable>
  
```

Sentinel value domain (ISO11404)

Data - Variables

A4: A4. Interest in election campaign

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]
Statistics [NW/ W]	[Valid=3915 / 3922.287] [Invalid=40 / 32.713]
Literal question	And how much interest would you say you took in the election campaign overall?

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

Warning: this figure indicates the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest

```

<InstanceVariable> <!-- IdVarA4 -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarA4</Id>
  <Name><Content>a4</Content></Name>
  <DisplayLabel>
    <LanguageSpecificStructuredString>A4. Interest in election campaign</LanguageSpecificStructuredString>
  </DisplayLabel>
  <HasIntendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschema-
2/#integer</Uri></HasIntendedDataType>
  <TakesSubstantiveValuesFrom
typeOfClass="SubstantiveValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSubA4:1</TakesSubstantiveValuesFrom>
  <TakesPlatformSpecificSentinelValues
typeOfClass="SentinelValueDomain">URN:DDI:dagstuhl17423.ddialliance.org:IdSenMinus1:1</TakesPlatformSpecificSentinelValues>
  <SourceCapture
typeOfClass="RepresentedQuestion">URN:DDI:dagstuhl17423.ddialliance.org:IdQuestA4:1</SourceCapture>
</InstanceVariable>
  
```

Question

ValueDomains Substantive Values

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%

```
<SubstantiveValueDomain> <!-- IdSubA4 (enumerated) -->
```

```
<Agency>dagstuhl17423.ddialliance.org</Agency>
```

```
<Version>1</Version>
```

```
<Id>IdSubA4</Id>
```

```
<RecommendedDataType><Content>integer</Content><Uri>https://www.w3.org/TR/xmlschem-2/</Uri></RecommendedDataType>
```

<EnumeratedValueDomain

```
typeOfClass="CodeList">URN:DDI:dagstuhl17423.ddialliance.org:IDcodesNotMuch:1</EnumeratedValueDomain>
```

```
</SubstantiveValueDomain>
```

ValueDomains Enumerated Value Domain - CodeList

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%

<CodeList> <!-- IDcodesNotMuch -->

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>IDcodesNotMuch</Id>

<IsOrdered>>true</IsOrdered>

<Contains><Index>**1**</Index>

<Member typeOfClass="Code">

URN:DDI:dagstuhl17423.ddialliance.org:**IDcodeNotMuch1:1**

</Member>

</Contains>

<Contains><Index>2</Index><Member

typeOfClass="Code">URN:DDI:dagstuhl17423.ddialliance.org:IDcodeNotMuch2:1</Member></Contains>

<Contains><Index>3</Index><Member

typeOfClass="Code">URN:DDI:dagstuhl17423.ddialliance.org:IDcodeNotMuch3:1</Member></Contains>

<Contains><Index>4</Index><Member

typeOfClass="Code">URN:DDI:dagstuhl17423.ddialliance.org:IDcodeNotMuch4:1</Member></Contains>

</CodeList>

ValueDomains - Code and Category

Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%

<Code> <!-- IDcodeNotMuch1 A good deal -->

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>**IDcodeNotMuch1**</Id>

<Representation>

<**Content**>**1**</Content>

</Representation>

<Denotes typeOfClass="Category">

URN:DDI:dagstuhl17423.ddialliance.org:**IDcatNotMuch1:1**

</Denotes>

</Code>

<Category> <!-- IDcatNotMuch1 A good deal -->

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

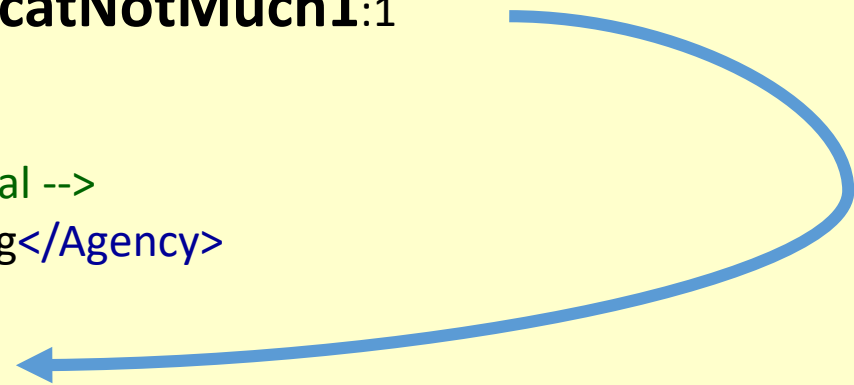
<Id>**IDcatNotMuch1**</Id>

<DisplayLabel>

<LanguageSpecificStructuredString>**A good deal**</LanguageSpecificStructuredString>

</DisplayLabel>

</Category>



Described Value Domains

Division: Division (from sample)

Information	[Type= discrete] [Format=character] [Missing=*]
-------------	---

```
<DescribedValueDomain typeOfClass="ValueAndConceptDescription">  
URN:DDI:dagstuhl17423.ddialliance.org:IdValDivision:1  
</DescribedValueDomain>
```

```
<ValueAndConceptDescription> <!-- IdValDivision (as an open string, not a codelist) -->  
  <Agency>dagstuhl17423.ddialliance.org</Agency>  
  <Version>1</Version>  
  <Id>IdValDivision</Id>  
  <Description>  
    <LanguageSpecificStructuredString>
```

uppercase characters up to 255 characters long

```
    </LanguageSpecificStructuredString>  
  </Description>  
  <RegularExpression>  
    <Content>/[ A-Z]{1,255}/ </Content>  
  </RegularExpression>  
</ValueAndConceptDescription>
```

A Physical File (CSV subset of original study)

```
divisnum,uniqueid,datecomp,state,division,a4,g1age,xg5,weight,partyaby,swingy  
101,3203991,10/22/2013,8,CANBERRA,3,18,2342,1.40422425242532,ALP,-2.17000007629394  
101,3210858,10/25/2013,8,CANBERRA,1,17,2241,.851715011726785,ALP,-2.17000007629394
```

unitData Record (logical)

divisnum, uniqueid, datecomp, state, division, a4, glage, xg5, weight, partyaby, swingy

```
<UnitDataRecord>
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdLogRec</Id>
  <IsOrdered>true</IsOrdered>
  <Contains><Index>1</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarDivisNum:1</Member></Contains>
  <Contains><Index>2</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarUniqueID:1</Member></Contains>
  <Contains><Index>3</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarMode:1</Member></Contains>
  <Contains><Index>4</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarDateComp:1</Member></Contains>
  <Contains><Index>5</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarState:1</Member></Contains>
  <Contains><Index>6</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarDivision:1</Member></Contains>
  <Contains><Index>7</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarA4:1</Member></Contains>
  <Contains><Index>8</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarG1Age:1</Member></Contains>
  <Contains><Index>9</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarXg5:1</Member></Contains>
  <Contains><Index>10</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarWeight:1</Member></Contains>
  <Contains><Index>11</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarPartyAby:1</Member></Contains>
  <Contains><Index>12</Index><Member
typeOfClass="InstanceVariable">URN:DDI:dagstuhl17423.ddialliance.org:IdVarSwingn:1</Member></Contains>
</UnitDataRecord>
```


PhysicalDataSet has segments. Segments have Layouts

```
<PhysicalDataSet>
```

```
...
```

```
  <Contains><Index>1</Index>
```

```
    <Member typeOfClass="PhysicalRecordSegment">
```

```
    URN:DDI:dagstuhl17423.ddialliance.org:IdPhysrecSeg:1
```

```
    </Member></Contains>
```

```
</PhysicalDataSet>
```

```
<PhysicalRecordSegment>
```

```
  <Agency>dagstuhl17423.ddialliance.org</Agency>
```

```
  <Version>1</Version>
```

```
  <Id>IdPhysrecSeg</Id>
```

```
  <HasPhysicalLayout typeOfClass="UnitSegmentLayout">
```

```
  URN:DDI:dagstuhl17423.ddialliance.org:IdRecLay:1
```

```
  </HasPhysicalLayout>
```

```
</PhysicalRecordSegment>
```

UnitSegment Layout

```
divisnum,uniqueid,datecomp,state,division,a4,glage,xg5,weight,partyaby,swingy  
101,3203991,10/22/2013,8,CANBERRA,3,18,2342,1.40422425242532,ALP,-2.17000007629394  
101,3210858,10/25/2013,8,CANBERRA,1,17,2241,.851715011726785,ALP,-2.17000007629394
```

<UnitSegmentLayout>

<Agency>dagstuhl17423.ddialliance.org</Agency>

<Version>1</Version>

<Id>IdRecLay</Id>

<IsDelimited>true</IsDelimited>

<Delimiter>,</Delimiter>

<IsOrdered>true</IsOrdered>

<HasHeader>true</HasHeader>

<HeaderRowCount>1</HeaderRowCount>

This describes a “classic” CSV

<TreatConsecutiveDelimitersAsOne>>false</TreatConsecutiveDelimitersAsOne>

<Type>Set</Type>

<Overview>

<LanguageSpecificStructuredString>A simple comma delimited layout with one header line containing variable names. No text values contain commas so quotes are not used.</LanguageSpecificStructuredString>

</Overview>

UnitSegmentLayout also can be ordered

```
divisnum, uniqueid, datecomp, state, division, a4, glage, xg5, weight, partyaby, swingy
```

```
<Contains><Index>1</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarDivisNum:1</Member></Contains>  
  <Contains><Index>2</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarUniqueID:1</Member></Contains>  
    <Contains><Index>3</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarMode:1</Member></Contains>  
      <Contains><Index>4</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarDateComp:1</Member></Contains>  
        <Contains><Index>5</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarState:1</Member></Contains>  
          <Contains><Index>6</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarDivision:1</Member></Contains>  
            <Contains><Index>7</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarA4:1</Member></Contains>  
              <Contains><Index>8</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarG1Age:1</Member></Contains>  
                <Contains><Index>9</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarXg5:1</Member></Contains>  
                  <Contains><Index>10</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarWeight:1</Member></Contains>  
                    <Contains><Index>11</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarPartyAby:1</Member></Contains>  
                      <Contains><Index>12</Index><Member  
typeOfClass="ValueMapping">URN:DDI:dagstuhl17423.ddialliance.org:IDVmVarSwingn:1</Member></Contains>  
    </UnitSegmentLayout>
```

ValueMapping – in the CSV file the Representation is a String

divisnum,uniqueid,**datecomp**,state,division,a4,g1age,xg5,weight,partyaby,swingy

101,3203991,**10/22/2013**,8,CANBERRA,3,18,2342,1.40422425242532,ALP,-2.17000007629394

DATECOMP: Date of return (Responses received)

Information	[Type= discrete] [Format=character] [Missing=*]
--------------------	---

```
<ValueMapping> <!-- IDVmVarDateComp uses CSVW date format -->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IDVmVarDateComp</Id>
  <FormatsDataPoint typeOfClass="DataPoint">
URN:DDI:dagstuhl17423.ddialliance.org:IDDptDateComp:1
  </FormatsDataPoint>
  <PhysicalDataType><Content>date string</Content></PhysicalDataType>
  <Format>
    <Content>MM-dd-yyyy</Content>
    <Uri>https://www.w3.org/TR/2015/REC-tabular-data-model-20151217/#formats-for-dates-and-times
  </Uri>
  </Format>
</ValueMapping>
```

Variable Statistics – Summary Statistics

# A4: A4. Interest in election campaign				
Information		[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]		
Statistics [NW/ W]		[Valid=3915 / 3922.287] [Invalid=40 / 32.713]		
Literal question		And how much interest would you say you took in the election campaign overall?		
Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%
2	Some	1543	1515.3	38.6%
3	Not much	783	887.8	22.6%
4	None at all	166	236.1	6.0%
-1	Missing	40	32.7	

```

<VariableStatistics> <!-- IdVarStatsA4-->
  <Agency>dagstuhl17423.ddialliance.org</Agency>
  <Version>1</Version>
  <Id>IdVarStatsA4</Id>
  <ForInstanceVariable typeOfClass="InstanceVariable">
URN:DDI:dagstuhl17423.ddialliance.org:IdVarA4:1
  </ForInstanceVariable>
  
```

Followed by HasSummaryStatistic and or HasCategoryStatistic elements

Variable Statistics – Summary Statistics

# A4: A4. Interest in election campaign	
Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]
Statistics [NW/ W]	[Valid=3915 / 3922.287] [Invalid=40 / 32.713]

<HasSummaryStatistic>

<HasStatistic>

<IsWeighted>false</IsWeighted><DoubleValue>**1**</DoubleValue>

</HasStatistic>

<TypeOfSummaryStatistic><Content>**Minimum**</Content></TypeOfSummaryStatistic>

</HasSummaryStatistic>

<HasSummaryStatistic>

<HasStatistic>

<IsWeighted>false</IsWeighted><DoubleValue>**3915**</DoubleValue>

</HasStatistic>

<TypeOfSummaryStatistic>

<Content>**ValidCount**</Content>

</TypeOfSummaryStatistic>

</HasSummaryStatistic>

Summary Statistics – Categorical

# A4: A4. Interest in election campaign				
Information		[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*/-1]		
Statistics [NW/ W]		[Valid=3915 / 3922.287] [Invalid=40 / 32.713]		
Literal question		And how much interest would you say you took in the election campaign overall?		
Value	Label	Cases	Weighted	Percentage (Weighted)
1	A good deal	1423	1283.0	32.7%

```
<HasCategoryStatistic>  
  <ForCodeItem typeOfClass="CodeIndicator">  
    URN:DDI:dagstuhl17423.ddialliance.org:IDcodeNotMuch1:1  
  </ForCodeItem>  
  <CategoryValue>  
    <Content>1</Content>  
  </CategoryValue>  
  <HasStatistic>  
    <IsWeighted>>false</IsWeighted><DoubleValue>1423</DoubleValue>  
  </HasStatistic>  
  <TypeOfCategoryStatistic><Content>Count</Content></TypeOfCategoryStatistic>  
</HasCategoryStatistic>
```

- Gillman, Dan; Arofan Gregory; Larry Hoyle; Knut Wenzig. Sample Use Cases for the SimpleCodebook View in DDI Views (DDI4) IASSIST 2017, Lawrence KS May 26, 2017.
<http://iassist2017.org/program/s57.html>
- Gillman, Dan, Arofan Gregory, Larry Hoyle, Knut Wenzig *Sample Use Cases for the DataDictionary View in DDI Views (DDI4)* North American Data Documentation Initiative Conference, Ithaca, NY, April 2017.