Order of Work – Number 1 Elements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Title | 1..1 | 1 | 1 | free text |

**Resource Title**

|  |  |
| --- | --- |
| Name (Number) | title (360) [[UML]](#_bookmark358) |
| Definition | name by which the cited resource is known |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | Free text |

Meaning & Purpose The resource title is the official name used for the resource.

Where no formal name exists for the resource, a useful name for the resource should be assigned.

Guidance If the resource is a text document, use the full title as it appears on the title page; otherwise use a meaningful, plain language phrase for that resource

(i.e. do not use the file name)

Title naming conventions should be consistently used for related resources

(e.g. to facilitate discovery). To discriminate between duplicate titles, a reference to the version should be included in the title.

For identification purposes, it is important to carefully complete this element. Other users should easily understand the title.

If the resource is known by an alternate title, include this in the [alternatetitle](#_bookmark361)

element (361).

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the title in context. |
| Value | New Zealand Geographic Place Name Database |
| XML | ...  <gmd:CI\_Citation>  <gmd:title>  <gco:CharacterString>**New Zealand Geographic Place Name Database**</gco:CharacterString>  </gmd:title>  ...  </gmd:CI\_Citation>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | **Date** | 1..\* | 1 | N | class CI\_Date |

##### Date Reference

|  |  |
| --- | --- |
| Name (Number) | CI\_Date (393) [[UML]](#_bookmark358) |
| Definition | reference date and event used to describe it |
| Obligation/ Condition | Use obligation/condition from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Class <<Data Type>> |
| Domain | Lines 394-395 |

Meaning & Purpose The date reference contains the date and the type of event (creation, publication or revision) to which the date relates.

Guidance This contains no specific value in its own right. Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows a generic container for dates in context. |
| Value |  |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  <gmd:date>  ...  </gmd:date>  <gmd:dateType>  ...  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Date* | 1..1 | 1 | 1 | date |

**Resource Reference Date**

|  |  |
| --- | --- |
| Name (Number) | date (362) [[UML]](#_bookmark358) |
| Definition | reference date for the cited resource |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | No maxmimum |
| Data Type | Class |
| Domain | [CI\_Date](#_bookmark392) <<[DateType](#_bookmark317)>> |

Meaning & Purpose The resource reference date contains details about the date and date type of the resource.

This element exists to supports the class [CI\_Date](#_bookmark392).

Guidance This contains no specific value in its own right. Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows a generic container for dates. |
| Value |  |
| XML | ...  <gmd:CI\_Citation>  ...  <gmd:date>  <gmd:CI\_Date>  ...  </gmd:CI\_Date>  </gmd:date>  ...  </gmd:CI\_Citation>  ... |

**Reference Date**

|  |  |
| --- | --- |
| Name (Number) | date (394) [[UML]](#_bookmark358) |
| Definition | reference date for the cited resource |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | Date |

Meaning & Purpose The reference date is the date that an event occurs.

Guidance Character encoding of a date is a string that conforms to the date format specified by ISO 8601: "YYYY-MM-DD", “YYYYMMDD”, “YYYY-MM”, “YYYY”

and “YY” where Y, M and D are integer values representing the year, month and day respectively.

For other date and date/time formats, refer to Section: Externally Referenced Entities, ['Date and Date/Time](#_bookmark410)' .

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date in context. |
| Value | 2007-03-31 |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  <gmd:date>  <gco:Date>**2007-03-31**</gco:Date>  </gmd:date>  ...  </gmd:CI\_Date>  </gmd:date>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Date type* | 1..1 | 1 | 1 | code CI\_DateTypeCode |

###### Reference Date Type

|  |  |
| --- | --- |
| Name (Number) | dateType (395) [[UML]](#_bookmark358) |
| Definition | event used for reference date |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [CI\_DateTypeCode](#_bookmark415) <<CodeList>> |

Meaning & Purpose The reference date type identifies the event that the date relates to.

Guidance The value of dateType is chosen from the controlled list [CI\_DateTypeCode](#_bookmark415)

.Note this code list is extensible.

Example 1

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | Creation |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**creation**"/  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

Example 2

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | publication |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**publication**"/>  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

Example 3

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | revision |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**revision**">  **revision**</gmd:CI\_DateTypeCode>  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | **cited responsible party** | 0…\* | 1 | N | class   CI\_Responsibility |

###### Cited Responsible Party

|  |  |
| --- | --- |
| Name (Number) | citedResponsibleParty (367) [[UML]](#_bookmark358) |
| Definition | name and position information for an individual or organization that is responsible for the resource |
| Obligation/ Condition | Optional |
| Maximum Occurrence | No maximum |
| Data Type | Class |
| Domain | [CI\_ResponsibleParty](#_bookmark373) <<DataType>> |

Meaning & Purpose

Guidance

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Role (author, publisher)* | 1..1 | 1 | 1 | code CI\_RoleCode |

###### Role

|  |  |
| --- | --- |
| Name (Number) | role (379) [[UML]](#_bookmark358) |
| Definition | function performed by the responsible party |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [CI\_RoleCode <<CodeList>>](#_bookmark418) |

Meaning & Purpose The role identifies the function that the individual, position and/or organisation performs in regards to the resource.

Guidance The value of role is chosen from the controlled list [CI\_RoleCode](#_bookmark418). Note this code list is extensible.

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Organisation name* | 0..1 | 0 | 1 | free text |

###### Responsible Party Organisation Name

|  |  |
| --- | --- |
| Name (Number) | organisationName (376) [[UML]](#_bookmark358) |
| Definition | name of the responsible organization |
| Obligation/ Condition | Conditional: mandatory if [individualName](#_bookmark374) and [positionName](#_bookmark376) not documented |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | Free Text |

Meaning & Purpose The name of the organisation responsible for the resource.

Guidance Organisation name is always given in full. Addition of the acronym or abbreviation could be useful. For government, the value is the name of the agency responsible for a particular role associated with the resource.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the organisation name of the responsible party in context. |
| Value | Land Information New Zealand (LINZ) |
| XML | ...  <gmd:CI\_ResponsibleParty>  ...  <gmd:organisationName>  <gco:CharacterString>**Land Information New Zealand (LINZ)**  </gco:CharacterString>  </gmd:organisationName>  ...  </gmd:CI\_ResponsibleParty>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Abstract | 1..1 | 1 | 1 | free text |

**Identification Abstract**

|  |  |
| --- | --- |
| Name (Number) | abstract (25) [[UML]](#_bookmark46) |
| Definition | brief narrative summary of the content of the resource(s) |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | Free text |

Meaning & Purpose The identification abstract provides additional information about the resource. This may allow users to obtain a better appreciation of the resource and assist them to determine fitness for purpose.

Guidance The abstract should provide sufficient information, such as key words, to adequately describe the content of the resource. Careful consideration should be given when preparing an abstract as it is an important element for the assessment of a resource.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of abstract in context. |
| Value | The Digital Cadastral Database (DCDB) is now a legacy digital map that contained a vector based representation of all land parcel boundaries and most other legal boundaries for all of New Zealand. In addition it contained a centreline representation of all legal roads. It reflected the current cadastral pattern and was maintained through the processing of new subdivision plans. The DCDB was completely replaced in July 2002 by the Landonline Survey and Title Service. |
| XML | ...  </gmd:citation>  <gmd:abstract>  <gco:CharacterString>**The Digital Cadastral Database (DCDB) is now a legacy digital map that contained a vector based representation of all land parcel boundaries and most other legal boundaries for all of New Zealand. In addition it contained a centreline representation of all legal roads. It reflected the current cadastral pattern and was maintained through the processing of new subdivision plans. The DCDB was completely replaced in July 2002 by the Landonline Survey and Title Service.**  </gco:CharacterString>  </gmd:abstract>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | **Point of contact** | 0..\* | 2 | N | class   CI\_Responsibility |

##### Responsible Party

|  |  |
| --- | --- |
| Name (Number) | CI\_ResponsibleParty (374) [[UML]](#_bookmark358) |
| Definition | identification of, and means of communication with, person(s) and organizations  associated with the dataset |
| Obligation/ Condition | Use obligation/condition from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Class <<DataType>> |
| Domain | Lines 375-379 |

Meaning & Purpose The responsible party provides information about who is responsible for a resource, and can contain the identity of the person, position, organisation, their contact details and role.

The location of of the responsible person or organisation is defined in

[CI\_Address](#_bookmark379).

Please note: for the purpose of describing this element, the reference to ‘ dataset’ in the definition applies to all ‘resources’.

Guidance This contains no specific value in its own right. The role and at least one of

[individualName](#_bookmark374), [organisationName](#_bookmark375) or [positionName](#_bookmark376) elements must be provided

The metadata content creator is not required to record any information against this element.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the generic container for responsible party |
| Value |  |
| XML | ...  <gmd:CI\_ResponsibleParty>  <gmd:indvidualName>  ...  </gmd:individualName>  <gmd:organisationName>  ...  </gmd:organisationName>  <gmd:positionName>  ...  </gmd:positionName>  <gmd:contactInfo>  ...  </gmd:contactInfo>  <gmd:role>  ...  </gmd:role>  </gmd:CI\_ResponsibleParty>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Role (point of contact, custodian)* | 0..\* | 1 | N | code CI\_RoleCode |

###### Role

|  |  |
| --- | --- |
| Name (Number) | role (379) [[UML]](#_bookmark358) |
| Definition | function performed by the responsible party |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [CI\_RoleCode <<CodeList>>](#_bookmark418) |

Meaning & Purpose The role identifies the function that the individual, position and/or organisation performs in regards to the resource.

Guidance The value of role is chosen from the controlled list [CI\_RoleCode](#_bookmark418). Note this code list is extensible.

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Organisation* | 0..\* | 1 | N | templated text |

###### Responsible Party Organisation Name

|  |  |
| --- | --- |
| Name (Number) | organisationName (376) [[UML]](#_bookmark358) |
| Definition | name of the responsible organization |
| Obligation/ Condition | Conditional: mandatory if [individualName](#_bookmark374) and [positionName](#_bookmark376) not documented |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | Free Text |

Meaning & Purpose The name of the organisation responsible for the resource.

Guidance Organisation name is always given in full. Addition of the acronym or abbreviation could be useful. For government, the value is the name of the agency responsible for a particular role associated with the resource.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows the organisation name of the responsible party in context. |
| Value | Land Information New Zealand (LINZ) |
| XML | ...  <gmd:CI\_ResponsibleParty>  ...  <gmd:organisationName>  <gco:CharacterString>**Land Information New Zealand (LINZ)**  </gco:CharacterString>  </gmd:organisationName>  ...  </gmd:CI\_ResponsibleParty>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *ISO Topic categories* | 1..\* | 1 | 1 | code   MD\_TopicCategoryCode |

###### Topic Category

|  |  |
| --- | --- |
| Name (Number) | topicCategory (41) [[UML]](#_bookmark46) |
| Definition | main theme(s) of the dataset |
| Obligation/ Condition | Conditional: Mandatory if [hierarchyLevel](#_bookmark27) equals "dataset" or "series" |
| Maximum Occurrence | No maximum |
| Data Type | Class |
| Domain | [MD\_TopicCategoryCode](#_bookmark440) <<Enumeration>> |

Meaning & Purpose This element allows a search to be restricted to resources pertaining to a particular theme or topic. For example "find all data resources to do with the environment".

As topic category is an important element for searching, careful consideration should be given to its completion when documenting a “dataset” or “series”.

Guidance The topic category must be chosen from the enumeration list [MD\_TopicCategoryCode](#_bookmark440), [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.x](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_TopicCategoryCode) [ml#MD\_TopicCategoryCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_TopicCategoryCode)

It is acknowledged there are overlaps between general categories. The user is encouraged to select the one most appropriate.

Example

|  |  |
| --- | --- |
| Explanation | Example (XML) |
| Value | imageryBaseMapsEarthCover |
| XML | ...  <gmd:MD\_DataIdentification>  ...  <gmd:topicCategory>  <gmd:MD\_TopicCategoryCode>**imageryBaseMapsEarthCover**  </gmd:MD\_TopicCategoryCode>  </gmd:topicCategory>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | **Key words** (for search) | 0..\* | 2 | N | class MD\_Keywords |

**Keywords**

|  |  |
| --- | --- |
| Name (Number) | MD\_Keywords (52) [[UML]](#_bookmark46) |
| Definition | keywords, their type and reference source |
| Obligation/ Condition | Use obligation from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Aggregated Class ([MD\_Identification](#_bookmark47)) |
| Domain | Lines [53](#_bookmark76)-[55](#_bookmark78) |

Meaning & Purpose To facilitate searching.

Guidance

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | *Legal constraints* | 0..\* | 1 | \* | class   MD\_LegalConstraints |

**Legal Constraints**

|  |  |
| --- | --- |
| Name (Number) | MD\_LegalConstraints (69) [[UML]](#_bookmark94) |
| Definition | restrictions and legal prerequisites for accessing and using the resource or metadata |
| Obligation/ Condition | Use obligation from referencing object |
| Maximum Occurrence | No maximum |
| Data Type | Specified Class [(MD\_Constraints](#_bookmark95)) |
| Domain | Lines [70](#_bookmark98)-[72](#_bookmark100) and [68](#_bookmark96) |

Meaning & Purpose

Guidance

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | **Spatial extent** | 0..\* | 0 | N | package   EX\_Extent[geographicElement] |

###### Spatial Extent

|  |  |
| --- | --- |
| Name (Number) | *Role name:* spatialExtent (353) [[UML]](#_bookmark333) |
| Definition | spatial extent component of composite spatial and temporal extent |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | No maximum |
| Data Type | Association |
| Domain | Ex\_GeographicExtent <<Abstract>> |

Meaning & Purpose

Guidance

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Lineage | 0..\* | 1 | N | package LI\_Lineage |

###### Lineage

|  |  |
| --- | --- |
| Name (Number) | LI\_Lineage (82) [[UML]](#_bookmark111) |
| Definition | information about the events or source data used in constructing the data specified by the scope or lack of knowledge about lineage |
| Obligation/ Condition | Use obligation from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Aggregated Class ([DQ\_DataQuality](#_bookmark107)) |
| Domain | Lines [83](#_bookmark113)-[85](#_bookmark115) |

Meaning & Purpose Exists to support its children elements and does not contain values in its own right.

LI\_Lineage element provides the structure that can contain a lineage statement, processing steps and source.

Guidance No value is required because the XML element LI\_Lineage is an entity to store further information. It may contain statement, processStep and / or source elements.

The metadata content creator is not required to record any information against this element.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows LI\_Lineage in context |
| Value |  |
| XML | ...  <gmd:dataQualityInfo>  <gmd:DQ\_DataQuality>  <gmd:scope>  <gmd:DQ\_Scope>  ...  </gmd:DQ\_Scope>  </gmd:scope>  ...  <gmd:lineage>  <gmd:LI\_Lineage>  ...  </gmd:LI\_Lineage>  </gmd:lineage>  </gmd:DQ\_DataQuality>  </gmd:dataQualityInfo>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Statement | 0..1 | 1 | 1 | free text |

**Statement**

|  |  |
| --- | --- |
| Name (Number) | statement (83) [[UML]](#_bookmark111) |
| Definition | general explanation of the data producer's knowledge about the lineage of a dataset |
| Obligation/ Condition | Conditional: mandatory if DQ\_Quality.scope.DQ\_Scope.level = "dataset" or "series" |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | Free text |

Meaning & Purpose This element provides a statement of the history of the resource. It can also include a textual explanation of the processing steps and source of the resource, although these attributes would be better described in their specific elements.

Guidance The statement should be a free text description of the history of the resource but limited to the specified scope. It should contain as much information as is available.

Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows part of a lineage statement in context |
| Value | The land uses were collected during mid-1999 through updating and validating… |
| XML | ...  <gmd:dataQualityInfo>  <gmd:DQ\_DataQuality>  <gmd:scope>  <gmd:DQ\_Scope>  ...  </gmd:DQ\_Scope>  </gmd:scope>  ...  <gmd:lineage>  <gmd:LI\_Lineage>  <gmd:statement>  <gco:CharacterString>**The land uses were**  **collected during mid-1999 through updating and validating** …  </gco:CharacterString>  </gmd:statement>  ...  </gmd:LI\_Lineage>  </gmd:lineage>  </gmd:DQ\_DataQuality>  </gmd:dataQualityInfo>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Resource language and   character set | 0..1 | 1 | 1 | class PT\_Locale |

**Data Language**

|  |  |
| --- | --- |
| Name (Number) | language (39) [[UML]](#_bookmark46) |
| Short Name | dataLang |
| Definition | language(s) used within the dataset |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | No maximum |
| Data Type | CharacterString |
| Domain | [ISO 639-2](http://lcweb.loc.gov/standards/iso639-2/langcodes.html), other parts may be used |

Meaning & Purpose The data language identifies the language used in the resource. This may differ from the language used within the metadata record.

Guidance Default is “eng”.

The code list values from “[Codes for the Representation of Names of](http://www.loc.gov/standards/iso639-2/php/code_list.php) [Languages](http://www.loc.gov/standards/iso639-2/php/code_list.php)” must be used. Language values are chosen from a standard set. The 3-letter language code value "eng" should be used in preference to

* + 1. letter codes. A full list of language codes is available at

<http://lcweb.loc.gov/standards/iso639-2/langcodes.html>.

Only if there is a specialised language being used (e.g. dialects) then the

* + 1. letter code should not be used. then combinations of language and country codes (e.g. “en-gb”) may be used; e.g. “sp-ar”.

Where a single resource contains more than one language, then record the predominant language used. Where a resource exists separately in a different language, it is treated as a separate resource.

Please note: for the purpose of describing this element, the reference to ‘ dataset’ in the definition applies to all ‘resources’.

Example 1

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of language in context.  (not using a code list - default) |
| Value | eng (English) |
| XML | <gmd:language>  <gco:CharacterString>**eng**</gco:CharacterString>  </gmd:language> |

Example 2

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of language in context.  (not using a code list - default) |
| Value | mao (Maori) |
| XML | <gmd:language>  <gco:CharacterString>**mao**</gco:CharacterString>  </gmd:language> |

Example 3

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of language in context.  (using a code list) |
| Value | eng (English) |
| XML | <gmd:language>  <gmd:LanguageCode [codeList="http://www.isotc211.org/2005/resources/Codelist/](http://www.isotc211.org/2005/resources/Codelist/) ML\_gmxCodelists.xml#LanguageCode" codeListValue="**eng**"> **English**  </gmd:LanguageCode>  </gmd:language> |

###### Data Character Set

|  |  |
| --- | --- |
| Name (Number) | characterSet (40) [[UML]](#_bookmark46) |
| Short Name | dataChar |
| Definition | full name of the character coding standard used for the dataset |
| Obligation/ Condition | Conditional: Mandatory if ISO/IEC 10646-1 not used |
| Maximum Occurrence | No maximum |
| Data Type | Class |
| Domain | [MD\_CharacterSetCode](#_bookmark423) <<Codelist>> |

Meaning & Purpose The data character set is the code for the character set used in the resource.

This element does not describe the character set used within the metadata record (see [Metadata Character Set (4)](#_bookmark25))

Guidance The most commonly used character set is “utf8” which is part of ISO/IEC 10646-1. Hence if “utf8” is used then this element does not require content.

characterSet values are chosen from a standard code list as shown in [MD\_CharacterSetCode](#_bookmark423). The namespace of this code list is [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.x](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode) [ml#MD\_CharacterSetCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode).

Example

Please note: for the purpose of describing this element, the reference to ‘ dataset’ in the definition applies to all 'resources’.

|  |  |
| --- | --- |
| Explanation | Example (XML) |
| Value | UTF8 |
| XML | </gmd:language>  <gmd:characterSet>  <gmd:MD\_CharacterSetCode  codeList="  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode)  [\_CharacterSetCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode)"  codeListValue="utf8">**UTF 8**  </gmd:MD\_CharacterSetCode>  </gmd:characterSet>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Language | 1..1 | 1 | 1 | XML only |

**Metadata Language**

|  |  |
| --- | --- |
| Name (Number) | language (3) [[UML]](#_bookmark21) |
| Definition | language used for documenting metadata |
| Obligation/ Condition | Conditional: mandatory if not defined by encoding |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | [ISO 639-2](http://www.loc.gov/standards/iso639-2/php/code_list.php), other parts may be used |

Meaning & Purpose The metadata language is the written language used for completing the metadata record. This element does not describe the language used within the resource itself (see [Data Language (39)](#_bookmark64)).

While this element is not intended to be a primary search point, it may a search to be restricted to resources where the metadata has been created in a specific language. For example, "find all metadata for Otago data resources where the metadata is published in Maori".

Guidance It is recommended that the language values be chosen from a standard set given in [ISO 639-2](http://www.loc.gov/standards/iso639-2/php/code_list.php) (3 letter code); however, other parts of ISO 639 may be used (e.g. for multi-languages). A full list of language codes is available at [http://www.loc.gov/standards/iso639-2/php/code\_list.php.](http://www.loc.gov/standards/iso639-2/php/code_list.php)

Suggested default value is '**eng**'

|  |  |
| --- | --- |
| Explanation | where language is defined by encoding |
| Value | eng (English) |
| XML | <gmd:MD\_Metadata ...  xmlns:language="**eng**"  ...>  ...  </gmd:MD\_Metadata> |

Example 2

|  |  |
| --- | --- |
| Explanation | where language is **not** defined by encoding |
| Value | eng (English) |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:language>  <gco:CharacterString>**eng**</gco:CharacterString>  </gmd:language>  ...  </gmd:MD\_Metadata> |

Example 3

|  |  |
| --- | --- |
| Explanation | where language is **not** defined by encoding |
| Value | mao (Maori) |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:language>  <gco:CharacterString>**mao**</gco:CharacterString>  </gmd:language>  ...  </gmd:MD\_Metadata> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Character set | 1..1 | 1 | 1 | XML only |

**Metadata Character Set**

|  |  |
| --- | --- |
| Name (Number) | characterSet (4) [[UML]](#_bookmark21) |
| Definition | full name of the character coding standard used for the metadata set |
| Obligation/ Condition | Conditional: mandatory if ISO/IEC 10646-1 not used and not defined by encoding |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [MD\_CharacterSetCode <<CodeList>>](#_bookmark423) |

Meaning & Purpose The metadata character set is the code for the character set used in the metadata record. This element does not describe the character set used within the resource itself (see [Data Character Set (40)](#_bookmark65))

Guidance characterSet values are chosen from a standard code list as shown in

[MD\_CharacterSetCode](#_bookmark423).

ANZLIC suggests a default value of 'utf8' (8-bit variable size UCS Transfer Format, based on ISO/IEC 10646) as it is one of the more commonly used character sets.

It is not necessary to complete this element if the encoding attribute is provided in the XML declaration.

Example 1

|  |  |
| --- | --- |
| Explanation | defined by encoding |
| Value | Character set is set to utf8 |
| XML | <?xml encoding="UTF-8"?>  Note: in this example the XML declaration has an encoding value of ‘utf8’ and therefore there is no need for the characterSet element to exist. |

Example 2

|  |  |
| --- | --- |
| Explanation | not defined by encoding |
| Value | Character set is set to utf8 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:characterSet>  <gmd:MD\_CharacterSetCode codeList=" <http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCod> e"  codeListValue="utf8">utf8</gmd:MD\_CharacterSetCode>  </gmd:characterSet>  ...  </gmd:MD\_Metadata> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Distribution   information | 0..\* | 0 | N | class MD\_Distribution |

**Distribution Information**

|  |  |
| --- | --- |
| Name (Number) | *Role name:* distributionInfo (17) [[UML]](#_bookmark21) |
| Definition | provides information about the distributor of and options for obtaining the resource (s) |
| Obligation/ Condition | Optional |
| Maximum Occurrence | 1 |
| Data Type | Association |
| Domain | [MD\_Distribution](#_bookmark273) |

Meaning & Purpose The distribution information provides the link to information about how to obtain the resource.

This element exists to support class [MD\_Distribution](#_bookmark273) (270).

Guidance This contains no specific value in its own right.

The metadata content creator is not required to record any information against this element.

Note: only one distribution information can exist for each metadata record

Example

|  |  |
| --- | --- |
| Explanation | the distribution class in context |
| Value | not applicable |
| XML | <gmd:MD\_Metadata ...>  ...  <gmd:distributionInfo>  <gmd:MD\_Distribution>  ...  </gmd:MD\_Distribution>  </gmd:distributionInfo>  ...  </gmd:MD\_Metadata> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  | package MD\_Metadata |

### Metadata

|  |  |
| --- | --- |
| Name (Number) | MD\_Metadata (1) [[UML]](#_bookmark21) |
| Definition | Root entity which defines metadata about a resource or resources. |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | Line [2](#_bookmark23) to [22](#_bookmark45). |

Meaning & Purpose Exists to support its children elements and does not contain values in its own right.

Guidance This will be the root element if it is a standalone metadata record. If it is the root element then the XML implementation will require certain attributes (see example). This element could be a sub-element of DS\_Aggregate.

The metadata content creator is not required to record any information against this element.

Example

|  |  |
| --- | --- |
| Explanation | This first line in the XML is necessary and must be the very first line in the XML document. The 'version' attribute defines the version of XML being used and the encoding attribute defines the character set that can be used in the XML. |
| Value | The default value for encoding is UTF-8. |
| XML | <?xml version="1.0" encoding="UTF-8"?>  <gmd:MD\_Metadata [xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"](http://www.w3.org/2001/XMLSchema-instance)  [xmlns:gco="http://www.isotc211.org/2005/gco"](http://www.isotc211.org/2005/gco) [xmlns:gmd="http://www.isotc211.org/2005/gmd"](http://www.isotc211.org/2005/gmd) [xmlns:gts="http://www.isotc211.org/2005/gts"](http://www.isotc211.org/2005/gts) [xmlns:gsr="http://www.isotc211.org/2005/gsr"](http://www.isotc211.org/2005/gsr) [xmlns:gss="http://www.isotc211.org/2005/gss"](http://www.isotc211.org/2005/gss) [xmlns:gmx="http://www.isotc211.org/2005/gmx"](http://www.isotc211.org/2005/gmx) [xmlns:gml="http://www.opengis.net/gml"](http://www.opengis.net/gml) [xmlns:xlink="http://www.w3.org/1999/xlink"](http://www.w3.org/1999/xlink) xsi:schemaLocation="  <http://www.isotc211.org/2005/gmd> <http://www.isotc211.org/2005/gmd/gmd.xsd>  <http://www.opengis.net/gml><http://www.opengis.net/gml/gml.xsd> <http://www.w3.org/1999/xlink>  [http://www.w3.org/1999/xlink/xlinks.xsd">](http://www.w3.org/1999/xlink/xlinks.xsd) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | metadata identifier | 0..1 | 1 | 1 | system generated text |

##### Metadata Identifier

|  |  |
| --- | --- |
| Name (Number) | <<DataType>> MD\_Identifier (205) [[UML]](#_bookmark220) |
| Definition | value uniquely identifying an object within a namespace |
| Obligation/ Condition | Use obligation/condition from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Class |
| Domain | Lines [206–](#_bookmark227)[207](#_bookmark228) |

Meaning & Purpose Exists to support its children elements and does not contain values in its own right. The identifier enables accurate identification of specific objects using a code. This is used in many areas including citations and geographic extent names.

Guidance This contains no specific value in its own right.

The metadata content creator is not required to record any information against this element.

Example 1

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of MD\_Identifier in context of  [geographicIdentifier](#_bookmark349). |
| Value |  |
| XML | ...  <gmd:geographicElement>  <gmd:EX\_GeographicDescription>  ...  <gmd:geographicIdentifier>  <gmd:MD\_Identifier>  ...  </gmd:MD\_Identifier>  </gmd:geographicIdentifier>  </gmd:EX\_GeographicDescription>  </gmd:geographicElement>  ... |

Example 2

|  |  |
| --- | --- |
| Explanation | The following XML example shows the use of MD\_Identifier in context of  [CI\_Citation](#_bookmark359). |
| Value |  |
| XML | <gmd:CI\_Citation>  ...  <gmd:identifier>  <gmd:MD\_Identifier>  ...  </gmd:MD\_Identifier>  </gmd:identifier>  ...  </gmd:CI\_Citation> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | metadata date stamp | 1..\* | 1 | N | class CI\_Date |

**Metadata Date Stamp**

|  |  |
| --- | --- |
| Name (Number) | dateStamp (9) [[UML]](#_bookmark21) |
| Definition | date that the metadata was created |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [Date](#_bookmark410) |

Meaning & Purpose The metadata date stamp provides the date that the metadata record was created, and not the date that the resource was created. It is not the date the metadata was last updated.

Guidance The dateStamp value will never change for a particular metadata record. See section ['Date and Date/Time](#_bookmark410)' for ISO 8601 valid formats.

Example 1

|  |  |
| --- | --- |
| Explanation | The following XML example shows dateStamp using dashes between the year, month and day  (as shown below for 22 March 2006) |
| Value | 2006-03-22 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:dateStamp>  <gco:Date>2006-03-22</gco:Date>  </gmd:dateStamp>  ...  </gmd:MD\_Metadata> |

Example 2

|  |  |
| --- | --- |
| Explanation | The following XML example shows dateStamp format without dashes (as shown below for 22 March 2006) |
| Value | 20060322 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:dateStamp>  <gco:Date>20060322</gco:Date>  </gmd:dateStamp>  ...  </gmd:MD\_Metadata> |

Example 3

|  |  |
| --- | --- |
| Explanation | The following XML example shows dateStamp format for March 2006 |
| Value | 2006-03 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:dateStamp>  <gco:Date>2006-03</gco:Date>  </gmd:dateStamp>  ...  </gmd:MD\_Metadata> |

Example 4

|  |  |
| --- | --- |
| Explanation | The following XML example shows dateStamp format for Year only - 2006 |
| Value | 2006 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:dateStamp>  <gco:Date>2006</gco:Date>  </gmd:dateStamp>  ...  </gmd:MD\_Metadata> |

Example 5

|  |  |
| --- | --- |
| Explanation | The following XML example shows dateStamp format for 21st century |
| Value | 20 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:dateStamp>  <gco:Date>20</gco:Date>  </gmd:dateStamp>  ...  </gmd:MD\_Metadata> |

##### Date Reference

|  |  |
| --- | --- |
| Name (Number) | CI\_Date (393) [[UML]](#_bookmark358) |
| Definition | reference date and event used to describe it |
| Obligation/ Condition | Use obligation/condition from referencing object |
| Maximum Occurrence | Use maximum occurrence from referencing object |
| Data Type | Class <<Data Type>> |
| Domain | Lines 394-395 |

Meaning & Purpose The date reference contains the date and the type of event (creation, publication or revision) to which the date relates.

Guidance This contains no specific value in its own right. Example

|  |  |
| --- | --- |
| Explanation | The following XML example shows a generic container for dates in context. |
| Value |  |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  <gmd:date>  ...  </gmd:date>  <gmd:dateType>  ...  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | ‘date’ or ‘date &   time’ | 1..1 | 1 | 1 | date or dateTime |

**Date & Time**

|  |  |
| --- | --- |
| Name (Number) | dateTime (89) [[UML]](#_bookmark111) |
| Definition | date and time or range of date and time on or over which the process step occurred |
| Obligation/ Condition | Optional |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [DateTime](#_bookmark119) (B.4.2) |

Meaning & Purpose

Guidance

Example

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Date type (from list e.g. creation, publication, revision, adopted, superseded, etc.) | 1..1 | 1 | 1 | code CI\_DateTypeCode |

###### Reference Date Type

|  |  |
| --- | --- |
| Name (Number) | dateType (395) [[UML]](#_bookmark358) |
| Definition | event used for reference date |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [CI\_DateTypeCode](#_bookmark415) <<CodeList>> |

Meaning & Purpose The reference date type identifies the event that the date relates to.

Guidance The value of dateType is chosen from the controlled list [CI\_DateTypeCode](#_bookmark415)

.Note this code list is extensible.

Example 1

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | Creation |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**creation**"/  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

Example 2

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | publication |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**publication**"/>  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

Example 3

|  |  |
| --- | --- |
| Explanation | The following XML example shows the date type in context. |
| Value | revision |
| XML | ...  <gmd:date>  <gmd:CI\_Date>  ...  <gmd:dateType>  <gmd:CI\_DateTypeCode codeList=  [http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI\_DateT](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode)  [ypeCode](http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateTypeCode) codeListValue="**revision**">  **revision**</gmd:CI\_DateTypeCode>  </gmd:dateType>  </gmd:CI\_Date>  </gmd:date>  ... |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | metadata point of  contact | 1..\* | 1 | 1 | class   CI\_Responsibility |

**Metadata Point of Contact**

|  |  |
| --- | --- |
| Name (Number) | contact (8) [[UML]](#_bookmark21) |
| Definition | party responsible for the metadata information |
| Obligation/ Condition | Mandatory |
| Maximum Occurrence | No maximum |
| Data Type | Class |
| Domain | [CI\_ResponsibleParty<<Data Type>>](#_bookmark373) |

Meaning & Purpose The metadata contact contains details about the individual, organisation and/or position associated with the metadata information.

This element exists to supports the class [CI\_ResponsibleParty](#_bookmark373).

Guidance This contains no specific value in its own right.

The metadata content creator is not required to record any information against this element.

Example

|  |  |
| --- | --- |
| Explanation | Example (XML) |
| Value | contact |
| XML | <gmd:MD\_Metadata...>  ...  **<gmd:contact>**  <gmd:CI\_ResponsibleParty>  ...  </gmd:CI\_ResponsibleParty>  **</gmd:contact>**  ...  </gmd:MD\_Metadata> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Metadata language and   character set | C..1 | 1 | 1 | class PT\_Locale |

**Metadata Language**

|  |  |
| --- | --- |
| Name (Number) | language (3) [[UML]](#_bookmark21) |
| Definition | language used for documenting metadata |
| Obligation/ Condition | Conditional: mandatory if not defined by encoding |
| Maximum Occurrence | 1 |
| Data Type | CharacterString |
| Domain | [ISO 639-2](http://www.loc.gov/standards/iso639-2/php/code_list.php), other parts may be used |

Meaning & Purpose The metadata language is the written language used for completing the metadata record. This element does not describe the language used within the resource itself (see [Data Language (39)](#_bookmark64)).

While this element is not intended to be a primary search point, it may a search to be restricted to resources where the metadata has been created in a specific language. For example, "find all metadata for Otago data resources where the metadata is published in Maori".

Guidance It is recommended that the language values be chosen from a standard set given in [ISO 639-2](http://www.loc.gov/standards/iso639-2/php/code_list.php) (3 letter code); however, other parts of ISO 639 may be used (e.g. for multi-languages). A full list of language codes is available at [http://www.loc.gov/standards/iso639-2/php/code\_list.php.](http://www.loc.gov/standards/iso639-2/php/code_list.php)

Suggested default value is '**eng**'

Example 1

|  |  |
| --- | --- |
| Explanation | where language is defined by encoding |
| Value | eng (English) |
| XML | <gmd:MD\_Metadata ...  xmlns:language="**eng**"  ...>  ...  </gmd:MD\_Metadata> |

Example 2

|  |  |
| --- | --- |
| Explanation | where language is **not** defined by encoding |
| Value | eng (English) |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:language>  <gco:CharacterString>**eng**</gco:CharacterString>  </gmd:language>  ...  </gmd:MD\_Metadata> |

Example 3

|  |  |
| --- | --- |
| Explanation | where language is **not** defined by encoding |
| Value | mao (Maori) |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:language>  <gco:CharacterString>**mao**</gco:CharacterString>  </gmd:language>  ...  </gmd:MD\_Metadata> |

**Metadata Character Set**

|  |  |
| --- | --- |
| Name (Number) | characterSet (4) [[UML]](#_bookmark21) |
| Definition | full name of the character coding standard used for the metadata set |
| Obligation/ Condition | Conditional: mandatory if ISO/IEC 10646-1 not used and not defined by encoding |
| Maximum Occurrence | 1 |
| Data Type | Class |
| Domain | [MD\_CharacterSetCode <<CodeList>>](#_bookmark423) |

Meaning & Purpose The metadata character set is the code for the character set used in the metadata record. This element does not describe the character set used within the resource itself (see [Data Character Set (40)](#_bookmark65))

Guidance characterSet values are chosen from a standard code list as shown in

[MD\_CharacterSetCode](#_bookmark423).

ANZLIC suggests a default value of 'utf8' (8-bit variable size UCS Transfer Format, based on ISO/IEC 10646) as it is one of the more commonly used character sets.

It is not necessary to complete this element if the encoding attribute is provided in the XML declaration.

Example 1

|  |  |
| --- | --- |
| Explanation | defined by encoding |
| Value | Character set is set to utf8 |
| XML | <?xml encoding="UTF-8"?>  Note: in this example the XML declaration has an encoding value of ‘utf8’ and therefore there is no need for the characterSet element to exist. |

Example 2

|  |  |
| --- | --- |
| Explanation | not defined by encoding |
| Value | Character set is set to utf8 |
| XML | <gmd:MD\_Metadata...>  ...  <gmd:characterSet>  <gmd:MD\_CharacterSetCode codeList=" <http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCod> e"  codeListValue="utf8">utf8</gmd:MD\_CharacterSetCode>  </gmd:characterSet>  ...  </gmd:MD\_Metadata> |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Metadata Constraints | 0..\* | 1 | 1 | package |

**Metadata Constraints**

|  |  |
| --- | --- |
| Name (Number) | *Role name:* metadataConstraints (20) [[UML]](#_bookmark21) |
| Definition | provides restrictions on the access and use of metadata |
| Obligation/ Condition | Optional |
| Maximum Occurrence | No maximum |
| Data Type | Association |
| Domain | [MD\_Constraints](#_bookmark95) |

Meaning & Purpose

Guidance

Example