

# LexEVS 6.x OBO Mapping

| OBO Class       | OBO Entity                     | LexGrid Model Element                                         | Notes                                                                                                                                                                  |
|-----------------|--------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document Header | format-version                 | None                                                          | Not mapped.                                                                                                                                                            |
| Document Header | data-version                   | CodingScheme.representsVersion                                | Creates a codingSchemeVersion and SystemRelease record. If not specified, then hard coded "UNASSIGNED"                                                                 |
| Document Header | version                        | CodingScheme.representsVersion                                | Deprecated - use data-version if present.                                                                                                                              |
| Document Header | date                           | None                                                          | Not mapped.                                                                                                                                                            |
| Document Header | saved-by                       | None                                                          | Ignored but included if contained in the remark entity.                                                                                                                |
| Document Header | auto-generated-by              | None                                                          | Ignored but included if contained in the remark entity.                                                                                                                |
| Document Header | subsetdef                      | None                                                          | Not mapped.                                                                                                                                                            |
| Document Header | import                         | None                                                          | Deprecated - Imports are used to assemble a larger document from smaller.                                                                                              |
| Document Header | typeref                        | None                                                          | Deprecated.                                                                                                                                                            |
| Document Header | synonymtypedef                 | None                                                          | Not mapped.                                                                                                                                                            |
| Document Header | idspace                        | None                                                          | Not mapped. The idspace is a triple - localName, URN and description.                                                                                                  |
| Document Header | default-relationship-id-prefix | None                                                          | Not mapped.                                                                                                                                                            |
| Document Header | id-mapping                     | CodingScheme.supportedAssociation                             | This is more generalized than the LexGrid model, as it supports mapping between *any* id's. Note that its primary purpose, however, is to handle supportedAssociation. |
| Document Header | remark                         | CodingScheme.entityDescription                                | Will combine multiple remark entities into the entityDescription.                                                                                                      |
| Document Header | default-namespace              | codingScheme.codingSchemeName                                 | Will use default-namespace if provided; otherwise will use filename without the extension.                                                                             |
| Document Header | default-namespace              | codingScheme.formalName                                       | Will use default-namespace if provided; otherwise will use filename without the extension.                                                                             |
| Document Header | default-namespace              | codingScheme.codingSchemeURI                                  | Combination of "urn:lsid:bioontology.org:" and if provided, the value in "default-namespace"; but if not will use filename without the extension.                      |
|                 |                                | codingScheme.defaultLanguage                                  | Hardcoded "en"                                                                                                                                                         |
|                 |                                | codingScheme.isNative                                         | Hardcoded "true"                                                                                                                                                       |
| Stanza          | id                             | Entity.entityCode                                             | No notes                                                                                                                                                               |
| Stanza          | name                           | Entity.entityDescription                                      | No notes                                                                                                                                                               |
|                 |                                | Entity.presentation["textualPresentation"].text               | No notes                                                                                                                                                               |
|                 |                                | Entity.presentation["textualPresentation"].isPreferred = true | No notes                                                                                                                                                               |
| Stanza          | alt_id                         | Entity.property.property="alt_id"                             | No notes                                                                                                                                                               |

|        |                                    |                                                                                        |                                                                                                               |
|--------|------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|        |                                    | Entity.property['alt_id'].propertyId                                                   | No notes                                                                                                      |
|        |                                    | Entity.property['alt_id'].text                                                         | No notes                                                                                                      |
| Stanza | is_anonymous                       | Entity.isAnonymous = true                                                              | No notes                                                                                                      |
| Stanza | is_obsolete                        | Entity.isActive = false                                                                | No notes                                                                                                      |
| Stanza | def                                | Entity.definition                                                                      | No notes                                                                                                      |
|        |                                    | Entity.definition.isPreferred = true                                                   | No notes                                                                                                      |
| Stanza | def.dbxref                         | None                                                                                   | See dbxref                                                                                                    |
| Stanza | comment                            | Entity.comment.text                                                                    | No notes                                                                                                      |
| Stanza | subset                             | property[subset tag]                                                                   | See subsetdef                                                                                                 |
| Stanza | synonym                            | presentation['textualPresentation'].text                                               | No notes                                                                                                      |
| Stanza | synonym.scope                      | presentation['textualPresentation'].degreeOfFidelity                                   | No notes                                                                                                      |
| Stanza | synonym.type                       | presentation['textualPresentation'].representationalForm                               | No notes                                                                                                      |
| Stanza | synonym.dbxref                     | (see dbxref)                                                                           | No notes                                                                                                      |
| Stanza | exact_synonym                      | None                                                                                   | See synonym                                                                                                   |
| Stanza | narrow_synonym                     | None                                                                                   | See synonym                                                                                                   |
| Stanza | broad_synonym                      | None                                                                                   | See synonym                                                                                                   |
| Stanza | xref                               | Property.['xref']                                                                      | No notes                                                                                                      |
| Stanza | xref_analog                        | None                                                                                   | See synonym                                                                                                   |
| Stanza | xref_unk                           | None                                                                                   | No notes                                                                                                      |
| Stanza | is_a                               | AssociationPredicate.['is_a']                                                          | Reverse of the source and target.                                                                             |
| Stanza | is_a.namespace                     | None                                                                                   | If present, the supplied namespace becomes the owning "codingScheme".                                         |
| Stanza | is_a.derived                       | AssociationPredicate.is_a.AssociationSource.<br>AssociationTarget.associationQualifier | If present, need to include derived in the supportedAssociationQualifiers section                             |
| Stanza | intersection_of                    | None                                                                                   | Processed the same way that OWL intersection operator is processed. This includes creation of anonymous sets. |
| Stanza | union_of                           | None                                                                                   | Same as OWL                                                                                                   |
| Stanza | disjoint_from                      | None                                                                                   | Same as OWL                                                                                                   |
| Stanza | relationship                       | associations.                                                                          | No notes                                                                                                      |
| Stanza | relationship.<br>not_necessary     | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | relationship.<br>inverse_necessary | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | relationship.<br>namespace         | None                                                                                   | If present, the supplied namespace becomes the owning "codingScheme".                                         |
| Stanza | relationship.<br>derived           | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | relationship.<br>cardinality       | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | relationship.<br>maxCardinality    | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | relationship.<br>minCardinality    | AssociationTarget..associationQualifier                                                | No notes                                                                                                      |
| Stanza | is_obsolete                        | Entity.isActive = false                                                                | No notes                                                                                                      |
|        |                                    | Entity.conceptStatus="is_obsolete"                                                     | No notes                                                                                                      |
| Stanza | replaced_by                        | None                                                                                   | No notes                                                                                                      |
| Stanza | consider                           | None                                                                                   | Not Mapped                                                                                                    |
| Stanza | use_term                           | None                                                                                   | (deprecated)                                                                                                  |
| dbxref | dbxref name                        | Entity.source                                                                          | No notes                                                                                                      |

|                 |                    |                                    |                                                                                                                                                                  |
|-----------------|--------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dbxref          | dbxref name        | supportedSource                    | dbxref name format is inconsistent. In most cases, it can be the localName of supportedSource, but special processing may be necessary in the case of URL's, etc |
| dbxref          | dbxref description | None                               | Not mapped.                                                                                                                                                      |
| dbxref          | trailing modifiers | None                               | Not mapped.                                                                                                                                                      |
| typeDef Stanza  | domain             | AssociationPredicate.[has_domain]  | No notes                                                                                                                                                         |
| typeDef Stanza  | range              | AssociationPredicate.[has_range]   | No notes                                                                                                                                                         |
| typeDef Stanza  | is_cyclic          | property['is_cyclic']              | No notes                                                                                                                                                         |
| typeDef Stanza  | is_reflexive       | property['is_reflexive']           | No notes                                                                                                                                                         |
| typeDef Stanza  | is_reflexive       | AssociationEntity.isReflexive      | No notes                                                                                                                                                         |
| typeDef Stanza  | is_symmetric       | property['is_symmetric']           | No notes                                                                                                                                                         |
| typeDef Stanza  | is_symmetric       | association.isSymmetric            | No notes                                                                                                                                                         |
| typeDef Stanza  | is_transitive      | property['is_transitive']          | No notes                                                                                                                                                         |
| typeDef Stanza  | is_transitive      | association.isTransitive           | No notes                                                                                                                                                         |
| typeDef Stanza  | inverse_of         | association.inverse                | No notes                                                                                                                                                         |
| instance stanza | id                 | same rules as general stanza       | same rules as general stanza                                                                                                                                     |
| instance stanza | name               | same rules as general stanza       | same rules as general stanza                                                                                                                                     |
| instance stanza | instance_of        | AssociationPredicate[has_instance] | No notes                                                                                                                                                         |
| instance stanza | instance_of        | Entity.property.property=""        | data type properties go in Coded Entry property section                                                                                                          |