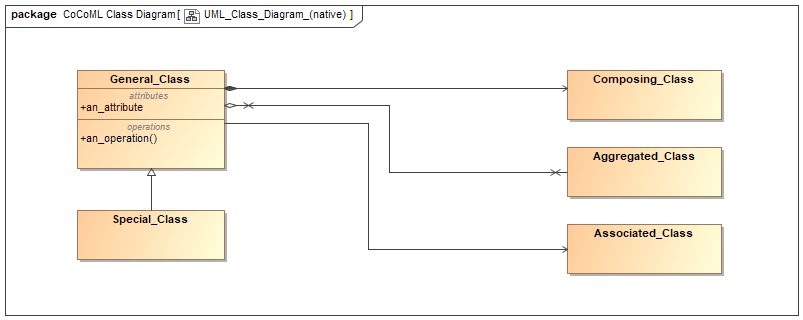
CoCoML Class-Diagram

# ▣  Class-Diagram\_(native)

A directed association in UML means that only one side knows about the other. In SpecIF every association is a statement with subject, predicate and object, hence directed like RDF statements. When translating a UML/SysML class diagram to SpecIF and further on to OWL/RDF:

* In case of a composition and aggregation, the class with the rhombus is the subject and the arrow is ignored.
* In case of a general association, the arrow is interpreted as the direction according to RDF. Thus, the arrow póints from subject to object.



#### Properties

|  |  |
| --- | --- |
| *Element Type* | Model Diagram |
| *Notation* | Class Diagram |

#### Statements

|  |  |  |
| --- | --- | --- |
| ▣  Class-Diagram\_(native) | *shows* | [Special\_Class](#N-10626225534)  [●  an\_attribute](#N-9843841025)  [Composing\_Class](#N-8006719168)  [Aggregated\_Class](#N-8165389426)  [General\_Class](#N-12061513685)  [Associated\_Class](#N-11449071013)  [■  an\_operation](#N-10210084608) |

# General\_Class

A general class.

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| General\_Class | *has part* | [●  an\_attribute](#N-9843841025)  [■  an\_operation](#N-10210084608)  [Aggregated\_Class](#N-8165389426)  [Composing\_Class](#N-8006719168) |
| General\_Class | *associated with* | [Associated\_Class](#N-11449071013) |
| [Special\_Class](#N-10626225534) | *specializes* | General\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | General\_Class |

### ●  an\_attribute

#### Properties

|  |  |
| --- | --- |
| *Element Type* | uml:Property |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | ●  an\_attribute |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | ●  an\_attribute |

### ■  an\_operation

#### Properties

|  |  |
| --- | --- |
| *Element Type* | uml:Operation |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | ■  an\_operation |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | ■  an\_operation |

# Special\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| Special\_Class | *specializes* | [General\_Class](#N-12061513685) |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Special\_Class |

# Composing\_Class

A class for components of a class.

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | Composing\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Composing\_Class |

# Aggregated\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | Aggregated\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Aggregated\_Class |

# Associated\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *associated with* | Associated\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Associated\_Class |

# Model Elements (Glossary)

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Model Elements (Glossary) |

### Aggregated\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | Aggregated\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Aggregated\_Class |

### ●  an\_attribute

#### Properties

|  |  |
| --- | --- |
| *Element Type* | uml:Property |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | ●  an\_attribute |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | ●  an\_attribute |

### ■  an\_operation

#### Properties

|  |  |
| --- | --- |
| *Element Type* | uml:Operation |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | ■  an\_operation |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | ■  an\_operation |

### Associated\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *associated with* | Associated\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Associated\_Class |

### Composing\_Class

A class for components of a class.

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| [General\_Class](#N-12061513685) | *has part* | Composing\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Composing\_Class |

### General\_Class

A general class.

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| General\_Class | *has part* | [●  an\_attribute](#N-9843841025)  [■  an\_operation](#N-10210084608)  [Aggregated\_Class](#N-8165389426)  [Composing\_Class](#N-8006719168) |
| General\_Class | *associated with* | [Associated\_Class](#N-11449071013) |
| [Special\_Class](#N-10626225534) | *specializes* | General\_Class |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | General\_Class |

### Special\_Class

#### Properties

|  |  |
| --- | --- |
| *Element Type* | Class |

#### Statements

|  |  |  |
| --- | --- | --- |
| Special\_Class | *specializes* | [General\_Class](#N-12061513685) |
| [▣  Class-Diagram\_(native)](#N-8264661645) | *shows* | Special\_Class |