Conceptual Modeling Language Specification Version 1.0

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A

Concrete Syntax (Grammar)

A.1 ANTLR Grammar

```
grammar CML;
@header
import cml.language.foundation.*;
import cml.language.features.*;
}
modelNode returns [Model model]:
    modelElementNode*;
modelElementNode:
    conceptNode | targetNode;
conceptNode returns [Concept concept]:
    ABSTRACT? 'concept' NAME
    (':' ancestorListNode)?
    (';' | propertyListNode);
targetNode returns [Target target]:
    'target' NAME propertyListNode;
propertyListNode:
    '{' (propertyNode ';')* '}';
propertyNode returns [Property property]:
    NAME (':' typeNode)? ('=' STRING)?;
ancestorListNode:
    NAME (',' NAME)*;
typeNode returns [Type type]:
    NAME CARDINALITY?;
// Reserved words must precede names. Otherwise, they will be recognized as names.
ABSTRACT:
    'abstract';
```

B

Abstract Syntax (Metamodel)

C

Abstract Syntax Tree (Instantiation)