

Attribute

- XML schema attribute maps to UML Attribute with stereotype XSDattribute.
- default maps to initial UML Attribute or AssociationEnd value.
- annotation – to UML Attribute or AssociationEnd documentation.
- name – to UML Attribute or AssociationEnd name.
- type or content simpleType – to UML Attribute or AssociationEnd type.

Other attributes or elements maps to corresponding tagged values

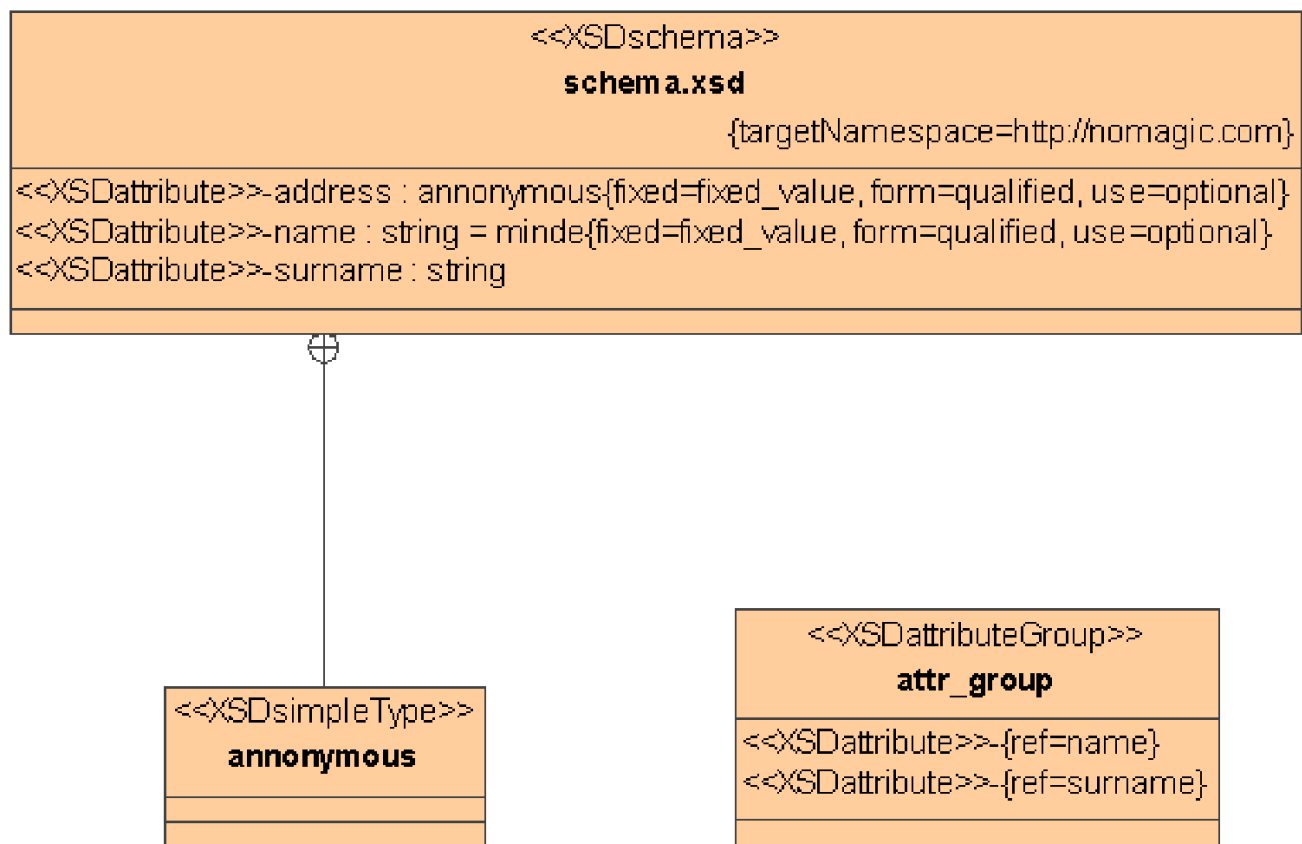
```
<attribute
    default = string
    fixed = string
    form = (qualified | unqualified)
    id = ID
    name = NCName
    ref = QName
    type = QName
    use = (optional | prohibited | required ) optional
    {any attributes with non-schema namespace ...} >
    Content: (annotation?,(simpleType?))
</attribute>
```

Example

```
<xs:attribute name="age" type="xs:positiveInteger" use="required"/>
```

Ref value is generated from ref or refString TaggedValue. One of ref or name must be present, but not both.

If ref is present, then all of <simpleType>, form and type must be absent. Type and <simpleType> must not both be present.



Example of attribute UML model (1).

`<xs:schema xmlns:nm = "http://nomagic.com" xmlns:xs = "http://www.w3.org/2001/XMLSchema" targetNamespace = "http://nomagic.com"`

Example of attribute UML code

```
<xs:attribute name = "name" type = "xs:string" default = "minde"
fixed = "fixed_value" form = "qualified" use "optional" >
  <xs:annotation >
    <xs:documentation >name attribute
documentation</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name = "address" fixed = "fixed_value" form =
"qualified" use = "optional" >
  <xs:annotation >
    <xs:documentation >surname attribute
documentation</xs:documentation>
  </xs:annotation>
  <xs:simpleType >
    <xs:restriction base = "xs:string" />
  </xs:simpleType>
</xs:attribute>
<xs:attribute name = "surname" type "xs:string" />
<xs:attributeGroup name = "attr_group" >
  <xs:attribute ref "nm:name" >
    <xs:annotation >
      <xs:documentation >reference
documentation</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute ref = "nm:surname" />
</xs:attributeGroup>
</xs:schema>
```