

 무료 전자 책

배우기

xsd

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1: xsd

XML XML .

XML XML . . .

.

- XML , , (,), .
- (XML Infoset) (PSVI : Infoset) . . .

XML DTD . , , .

1.0	2001-05-02
1.0, Second Edition	2004-10-28
1.1	2012-04-05

XML Schema 1.0 2001 5 W3C , W3C .

XML Schema 1.1 2012 W3C . . .

Examples

XSD, XML XML . XSD XML . . . XSD .

xsd : <https://riptutorial.com/ko/xsd/topic/2907/xsd->

2: xs : complexType

xs : complexType XML . xs : complexType .

	true xsi : type XML . . (false) - xs : complexType
	XML (xs : schemas blockDefault , '#all' ('extension', 'list' 'union')).
	(xs : schemas finalDefault , '#all' ('extension', list ',union')) - xs : complexType
	ID ()
	XML (false).
	xs : complexType - xs : complexType .
	' http://www.w3.org/2001/XMLSchema ' .
-----	-----
-----	-----
xs :	.
xs : simpleContent	xs : complexType xs : simpleType .
xs : complexContent	xs : complexType xs : complexType .
xs :	xs : group xs : complexType .
xs : all	xs : all xs : complexType .
xs :	xs : choice xs : complexType .
xs :	xs : sequence xs : complexType .
xs :	xs : complexType xs : .
xs : attributeGroup	xs : complexType xs : attributeGroup .
xs : anyAttribute	xs : anyType xs : complexType .

xs : complexType

xs : complexType xs : complexType .

- extension - .
- - .

xs : simpleType

xs : complexType xs : simpleType . .

xs : complexType . xs : complexType xs : anySimpleType (xs : int, xs : string) . xs : complexType , (xs : complexType).

Examples

ComplexType

complexType . xs : schema . .

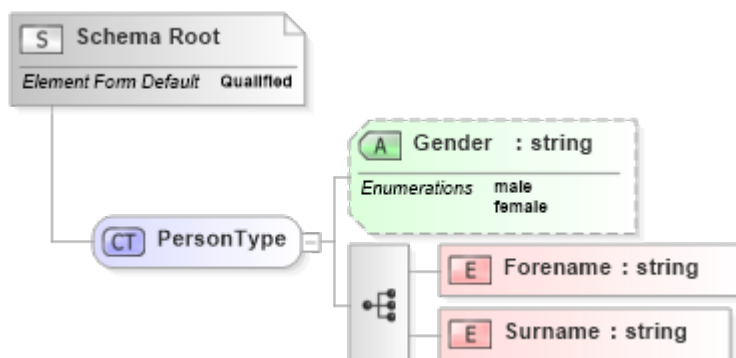
xs : complexType , xs : sequence, xs : choice xs : all .

: .

```

<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="PersonType">
    <xs:sequence>
      <xs:element name="Forename" type="xs:string" />
      <xs:element name="Surname" type="xs:string" />
    </xs:sequence>
    <xs:attribute name="Gender">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="male" />
          <xs:enumeration value="female" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:schema>

```



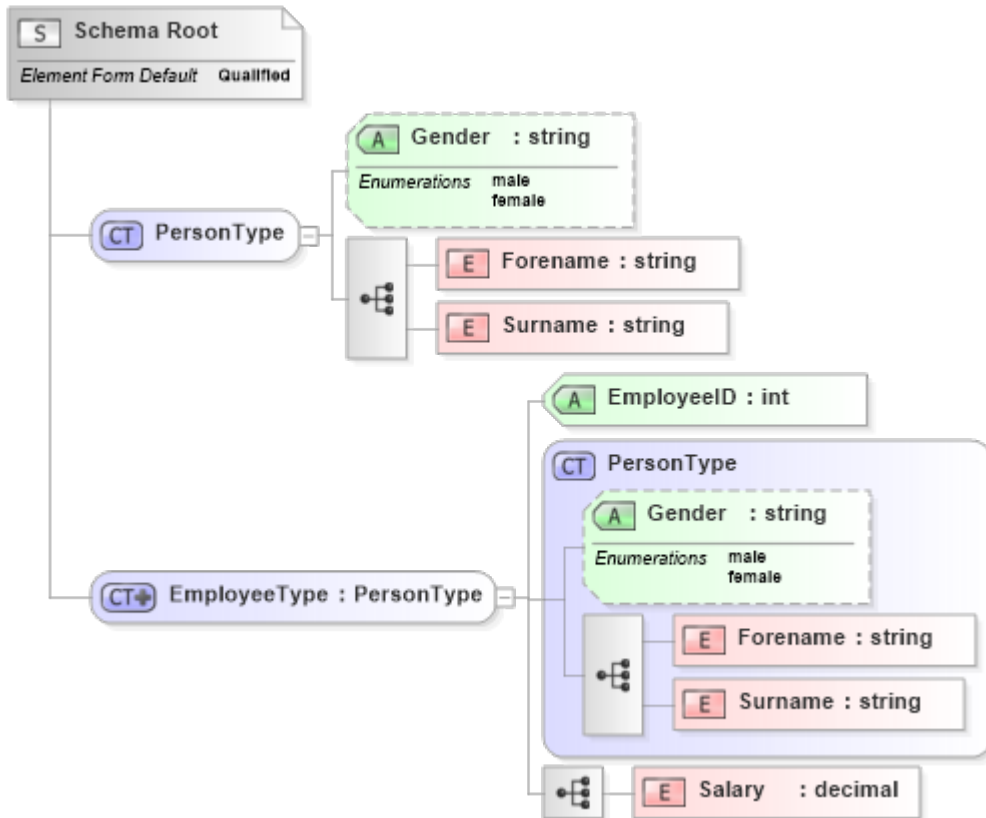
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xs : complexType xs : complexType

xs : complexType (PersonType) xs : complexType (EmployeeType) .

. xs : complexType (PersonType) () <xs : complexContent> . PersonType <xs : extension
base = "PersonType"> . xs : extension (xs : all / xs : choice / xs : sequence) .

```
<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="PersonType">
    <xs:sequence>
      <xs:element name="Forename" type="xs:string" />
      <xs:element name="Surname" type="xs:string" />
    </xs:sequence>
    <xs:attribute name="Gender">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="male" />
          <xs:enumeration value="female" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
  <xs:complexType name="EmployeeType">
    <xs:complexContent>
      <xs:extension base="PersonType">
        <xs:sequence>
          <xs:element name="Salary" type="xs:decimal" />
        </xs:sequence>
        <xs:attribute name="EmployeeID" type="xs:int" use="required" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>
```



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xs:complexType xs:complexType

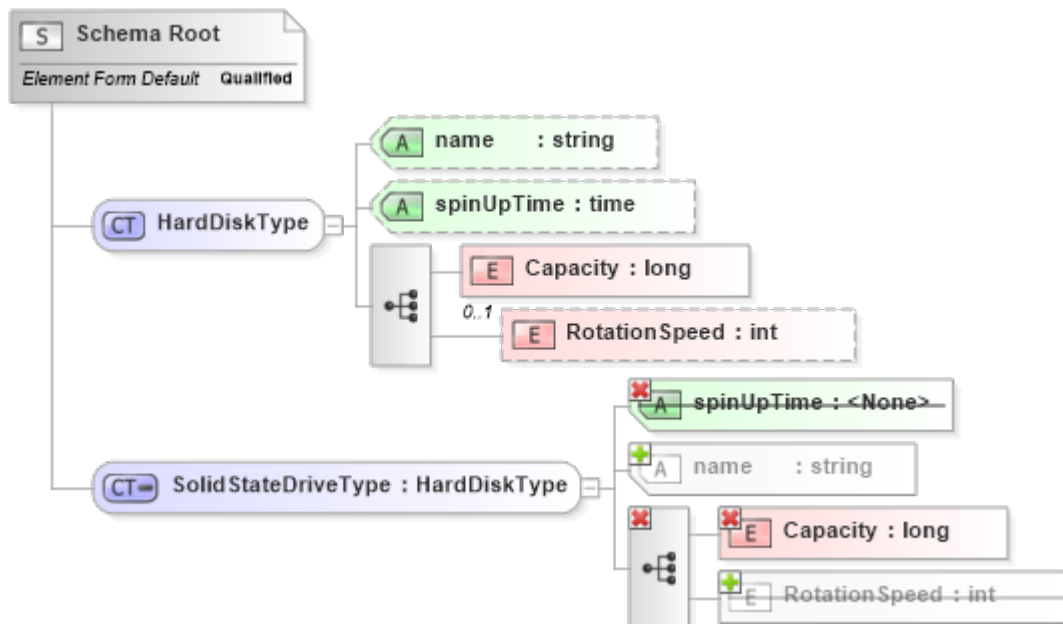
. xs:complexType . SolidStateDriveType HardDiskType spinUpTime RotationSpeed .

. . . .

: XML . " . . / / short 1 .

```

<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 - Developer Bundle Edition (Trial) 15.0.2.7192
(https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="HardDiskType">
    <xs:sequence>
      <xs:element name="Capacity" type="xs:long" />
      <xs:element name="RotationSpeed" type="xs:int" minOccurs="0" />
    </xs:sequence>
    <xs:attribute name="name" type="xs:string" />
    <xs:attribute name="spinUpTime" type="xs:time" />
  </xs:complexType>
  <xs:complexType name="SolidStateDrive">
    <xs:complexContent>
      <xs:restriction base="HardDiskType">
        <xs:sequence>
          <xs:element name="Capacity" type="xs:long" />
        </xs:sequence>
        <xs:attribute name="spinUpTime" use="prohibited" />
      </xs:restriction>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>
  
```

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xs : complexType : <https://riptutorial.com/ko/xsd/topic/9047/xs---complextyp>

3: xs :

XML , . XML (XSD) xs : schema .

attributeFormDefault	XML ().
blockDefault	xs : complexType xs : element . / (,).
defaultAttributes	(XSD 1.1) xs : complexType xs : element xs : attributeGroup ().
elementFormDefault	XML () . : ' ' .
finalDefault	xs : complexType xs : element . / (.).
	ID ()
targetNamespace	() .
	. XSD (: Soap 1.2, FpML 4.2).
xpathDefaultNamespace	(XSD 1.1) xs : selector, xs : field, xs : alternative & xs : assert (XPath) xpathDefaultNamespace .
	' http://www.w3.org/2001/XMLSchema ' .
xs :	.
xs : include	targetNamespace targetNamespace () .
xs : import	targetNamespace .
xs :	targetNamespace (targetNamespace) xs : simpleType, xs : complexType, xs : group xs : attributeGroup (...).
xs : simpleType	() .
xs : complexType	() .
xs :	() .
xs : attributeGroup	() .
xs :	() .
xs :	XML () .

XS :	-
xs : defaultOpenContent	(XSD 1.1) xs : complexType xs : .

Examples

XS :

: elementFormDefault 'qualified' . (!).

```
<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 - (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Person">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Forename" type="xs:string" />
        <xs:element name="Surname" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

xs : elementFormDefault

elementFormDefault *qualified* .

elementFormDefault qualified .

```
<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="qualified"
  targetNamespace="http://base.com"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="MyBaseElement">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ChildA" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

XML

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Created with Liquid Studio 2017 (https://www.liquid-technologies.com) -->
<b:MyBaseElement xmlns:b="http://base.com"
```

```

        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://base.com ElementFormDefault_qualified.xsd">
    <b:ChildA>string</b:ChildA>
</b:MyBaseElement>

```

ChildA 'b' .

elementFormDefault .

```

<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="unqualified"
    targetNamespace="http://base.com"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="MyBaseElement">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="ChildA" type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>

```

XML

```

<?xml version="1.0" encoding="utf-8"?>
<!-- Created with Liquid Studio 2017 (https://www.liquid-technologies.com) -->
<b:MyBaseElement xmlns:b="http://base.com"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://base.com ElementFormDefault_unqualified.xsd">
    <ChildA>string</ChildA>
</b:MyBaseElement>

```

MyBaseElement 'b' ChildA () .

XML . . .

```

<?xml version="1.0" encoding="utf-8" ?>
<!--Created with Liquid Studio 2017 (https://www.liquid-technologies.com)-->
<xs:schema elementFormDefault="unqualified"
    targetNamespace="http://base.com"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="MyBaseElement">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="ChildA" type="xs:string" />
                <xs:element xmlns:q1="http://base.com" ref="q1:MyElement" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="MyElement" type="xs:string" />
</xs:schema>

```

XML

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Created with Liquid Studio 2017 (https://www.liquid-technologies.com) -->
<b:MyBaseElement xmlns:b="http://base.com"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://base.com ElementFormDefault_unqualified.xsd">
  <ChildA>string</ChildA>
  <b:MyElement>string</b:MyElement>
</b:MyBaseElement>
```

MyElement .

, elementFormDefault qualified namespace xmlns = "...". elementFormDefault , ,

.

elementFormDefault qualified !

xs : : <https://riptutorial.com/ko/xsd/topic/9052/xs--->

S. No		Contributors
1	xsd	Beth Whitezel , Community , Ghislain Fourny , whrrgarbl , Wolfgang Schindler
2	xs : complexType	Sprotty
3	xs :	Sprotty