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学习

xsd

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1: xsd

XML SchemaXML。

XMLXML。 ◦

- XML。
- XML InfosetPSVIPost-Schema-Validation Infoset。

XML SchemaDTD。

1.0	2001-05-02
1.0	2004-10-28
1.1	2012-04-05

XML Schema 1.020015W3CW3C。

XML Schema 1.12012W3C。

Examples

XSDXML Schema DefinitionXML。 XSDXML。 ◦ XSD。

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

2: XS

xscomplexTypeXML。 xscomplexType。

	truexsitypeXML。 。 false - xscomplexType
	XMLxsschemas blockDefault'#all' 'extension'list' "。
	xsschemas finalDefault'#all' 'extension'list "union' - xscomplexType
ID	id
	XMLfalse
	xscomplexType - xscomplexType
	“ http://www.w3.org/2001/XMLSchema ”。
-----	-----
-----	-----
XS	。
XS	xscomplexTypexssimpleType。
XS	xscomplexTypexscomplexType。
XS	xsgroupxscomplexType
XS	xsallxscomplexType
XS	xschoicexscomplexType
XS	xssequencexscomplexType
XS	xsxscomplexType
XsAttributeGroup	xsattributeGroupxscomplexType
XsAnyAttribute	xsanyAttributexscomplexType

xscomplexType

xscomplexTypexscomplexType 。

- extension - ◦
- - ◦

xssimpleType

xscomplexType xssimpleType ◦

xscomplexType ◦ xscomplexType xstypeSimpleType xshintxsstring ◦ xscomplexType xs
complexType ◦

Examples

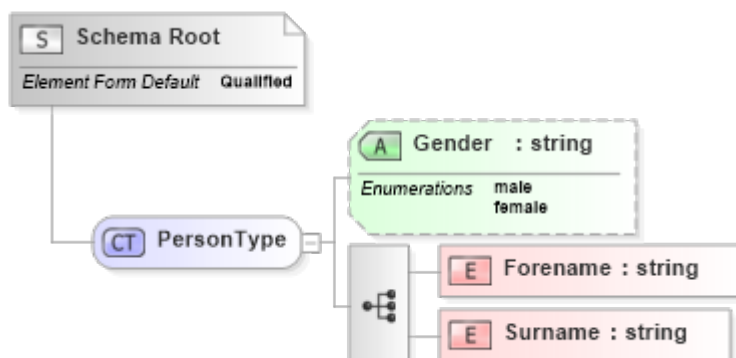
ComplexType

complexType ◦ xsschema ◦ ◦

xscomplexType xssequence xschoice xsall ◦

◦

```
<?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>
```



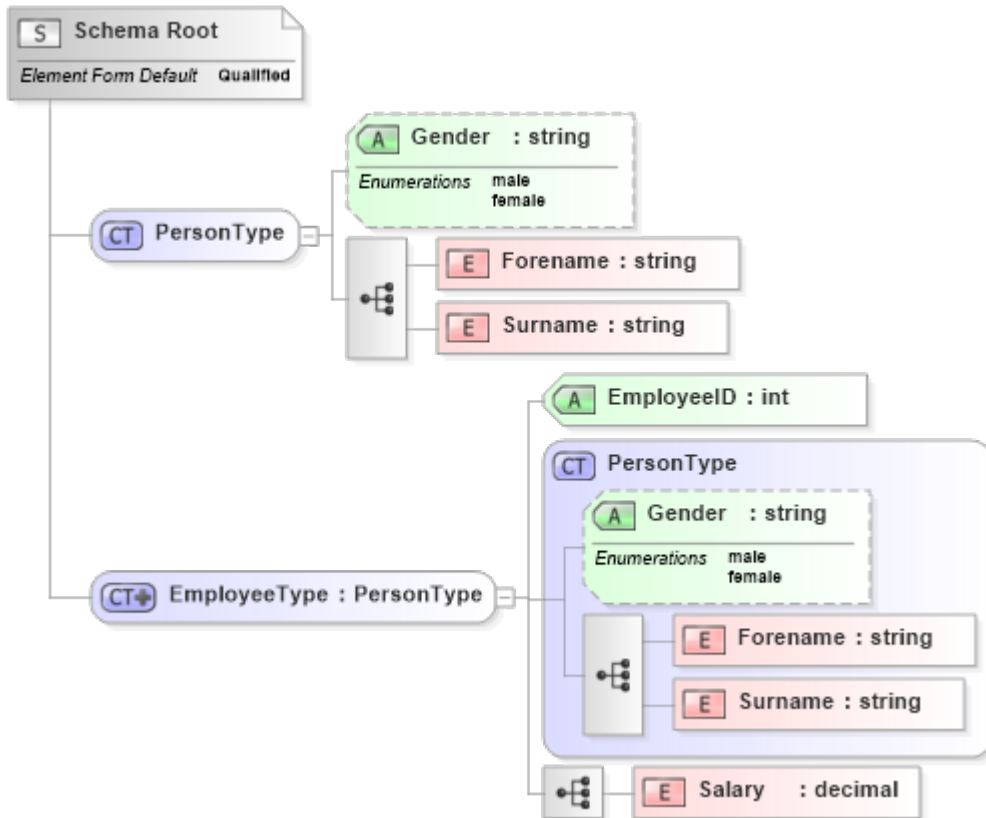
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xscomplexType xscomplexType

xscomplexTypePersonTypexscomplexTypeEmployeeType。

◦ xscomplexTypePersonType <xscomplexContent>。 PersonType<xsextension base="PersonType">。 xsextensioncompositorxsall / xschoice / xssequence。

```
<?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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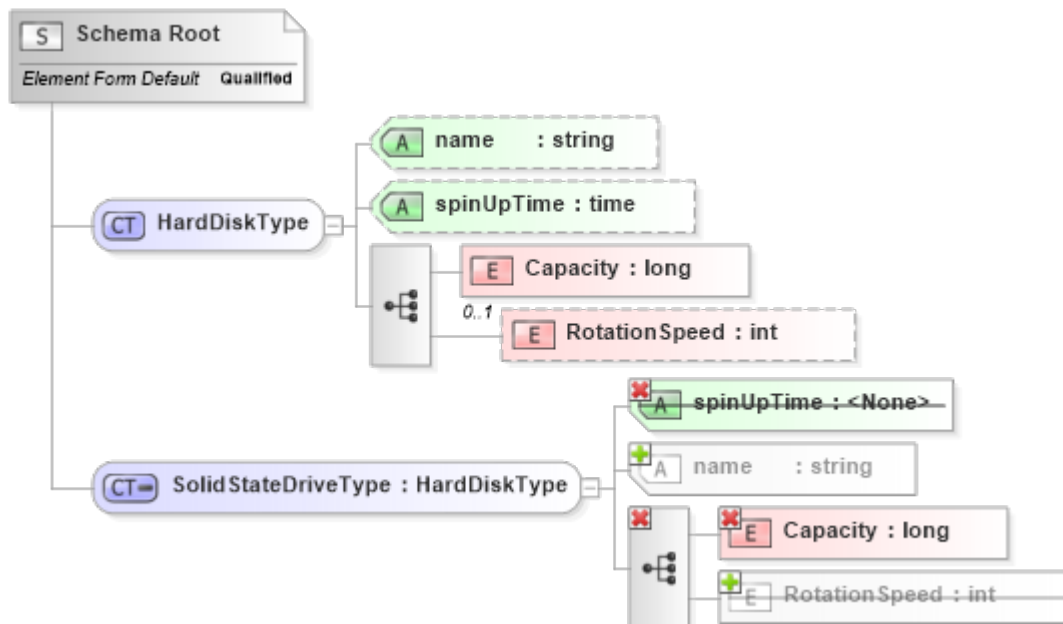
xscomplexTypexscomplexType

- xscomplexType ◦ SolidStateDriveTypeHardDiskTypespinUpTimeRotationSpeed◦

◦ ◦ ◦

XML "" ◦ ◦ //

```
<?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 <https://riptutorial.com/zh-CN/xsd/topic/9047/xs->

3: XS

XML。 XML SchemaXSDxsschema。

attributeFormDefault	XML
blockDefault	xscomplexType xselement 。 /
defaultAttributes	XSD 1.1 xscomplexType xsxsattributeGroup 。
elementFormDefault	XML。 “ ”。
finalDefault	xscomplexType xselement 。 /
ID	id
	。
	XSDSoap 1.2FpML 4.2
xpathDefaultNamespace	XSD 1.1 xpathDefaultNamespace xsselector xsfield xsalternativexsassertXPath
	“ http://www.w3.org/2001/XMLSchema ”。
XS	。
XS	targetNamespace targetNamespace chameleon 。
XS	targetNamespace 。
XS	targetNamespace targetNamespace xssimpleType xscomplexType xsgroup xsattributeGroup
XS	。
XS	。
XS	。
XsattributeGroup	。
XS	。
XS	XML。

XS	-
XSdefaultOpenContent	XSD 1.1 xscomplexType xs 。

Examples

xsschema

。

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>
```

xsschema 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”。

elementFormDefaultunqualified。

```

<?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。

elementFormDefaultqualifiednamesapce xmlns =“...”。

elementFormDefault

[XS https://riptutorial.com/zh-CN/xsd/topic/9052/xs-](https://riptutorial.com/zh-CN/xsd/topic/9052/xs-)

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