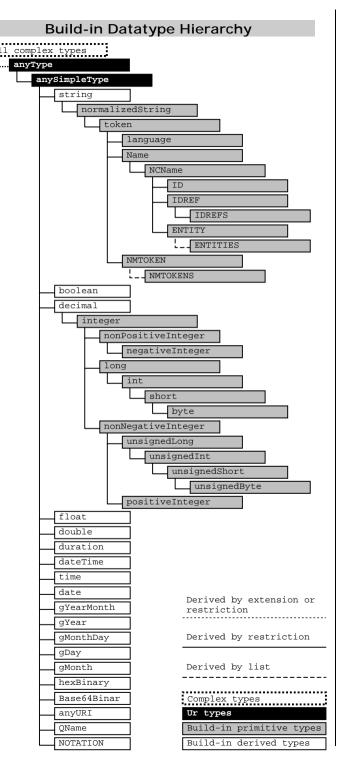
Primitive Datatypes		
string	§ 3.2.1	
Constraining facets: [1][2][3][4][5][6]	3 0.2	
boolean	§ 3.2.2	
Constraining facets: [4][6]	3 3.2.2	
decimal	§ 3.2.3	
Constraining facets: [4][5][6][7][8][9][10][11		
float	§ 3.2.4	
Constraining facets: [4][5][6][7][8][9][10]		
double	§ 3.2.5	
Constraining facets: [4][5][6][7][8][9][10]		
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Constraining facets: [4][5][6][7][8][9][10]		
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date	§ 3.2.9	
Constraining facets: [4][5][6][7][8][9][10]	_	
gYearMonth	§ 3.2.10	
Constraining facets: [4][5][6][7][8][9][10]		
gYear	§ 3.2.11	
Constraining facets: [4][5][6][7][8][9][10]		
gMonthDay	§ 3.2.12	
Constraining facets: [4][5][6][7][8][9][10]		
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Constraining facets: [4][5][6][7][8][9][10]		
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Constraining facets: [1][2][3][4][5][6]	62247	
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Constraining facets: [1][2][3][4][5][6]	6221/	
OName Constraining facets: [1][2][3][4][5][6]	§ 3.2.16	
	82217	
NOTATION  Constraining facets: [1][2][3][4][5][6]	§ 3.2.17	
constraining facets. [1][2][3][4][3][0]		
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token	§ 3.3.2
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Constraining facets: [1][2][3][4][5][6]	
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Constraining facets: [1][2][3][4][5][6]	
NMTOKENS	§ 3.3.5
Constraining facets: [1][2][3[5][6]	_

Name	§ 3.3.6
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IDREF	§ 3.3.9
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IDREFS	§ 3.3.10
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ENTITY	§ 3.3.11
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	82212
<pre>integer Constraining facets: [4][5][6][7][8][</pre>	91[10][11][12]
nonPositiveInteger Constraining facets: [4][5][6][7][8][	91[10][11][12]
negativeInteger Constraining facets: [4][5][6][7][8][	91[10][11][12]
_	
long	§ 3.3.16
<pre>Constraining facets: [4][5][6][7][8][</pre>	
int	§ 3.3.17
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Constraining facets: [4][5][6][7][8][	9][10][11][12]
byte	§ 3.3.19
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Constraining facets: [4][5][6][7][8][	9][10][11][12]
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Constraining facets: [4][5][6][7][8][	9][10][11][12]
positiveInteger	§ 3.3.25
Constraining facets: [4][5][6][7][8][	9][10][11][12]
Constraining Fac	ets
	§ 4.3.1
<pre>length [1] <length (annotation?)="" :="" <="" attributes="" content:="" false="" fixed="boolean" id="ID" length="" nam="" non-schema="" value="nonNegativeInteger" with="" {any=""></length></pre>	

```
minLength [2]
                                                  § 4.3.2
<minLength
 fixed = boolean : false
 id = ID
 value = nonNegativeInteger
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</minLength>
maxLength [3]
                                                  § 4.3.3
<maxLength
 fixed = boolean : false
 id = TD
 value = nonNegativeInteger
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</maxLength>
pattern [4]
                                                  § 4.3.4
<pattern
 id = ID
 value = anySimpleType
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</pattern>
                                                  § 4.3.5
enumeration [5]
<enumeration
 id = ID
 value = anySimpleType
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</enumeration>
whiteSpace [6]
                                                  § 4.3.6
<whiteSpace
 fixed = boolean : false
 id = ID
 value = (collapse | preserve | replace)
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</whiteSpace>
maxInclusive [7]
                                                  § 4.3.7
<maxInclusive
 fixed = boolean : false
 id = ID
 value = anySimpleType
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</maxInclusive>
maxExclusive [8]
                                                  § 4.3.8
<maxExclusive
 fixed = boolean : false
 id = ID
 value = anySimpleType
  {any attributes with non-schema namespace ...}>
 Content: (annotation?)
</maxExclusive>
minExclusive [9]
                                                  § 4.3.9
<minExclusive
 fixed = boolean : false
 id = ID
 value = anySimpleType
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</minExclusive>
```

```
§ 4.3.10
minInclusive [10]
<minInclusive
  fixed = boolean : false
  id = ID
  value = anySimpleType
  {anv attributes with non-schema namespace ...}>
  Content: (annotation?)
</minInclusive>
totalDigits [11]
                                                   § 4.3.11
<totalDigits</pre>
  fixed = boolean : false
  id = TD
  value = positiveInteger
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</totalDigits>
fractionDigits [12]
                                                   § 4.3.12
<fractionDigits
  fixed = boolean : false
  id = TD
  value = nonNegativeInteger
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</fractionDigits>
                 Datatype Components
Simple Type
                                                    § 4.1.2
<simpleType
  final = (#all | (list | union | restriction))
  id = ID
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (restriction | list | union))
</simpleType>
Derivation by restriction
                                                  § 4.1.2.1
<restriction
 base = OName
  id = TD
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (simpleType?, (minExclusive
            minInclusive | maxExclusive | maxInclusive |
            totalDigits | fractionDigits | length |
            minLength | maxLength | enumeration |
            whiteSpace | pattern)*))
</restriction>
Derivation by list
                                                  § 4.1.2.2
st
  id = ID
  itemType = OName
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (simpleType?))
</list>
Derivation by union
                                                  § 4.1.2.3
<union
  id = ID
  memberTypes = List of QName
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (simpleType*))
</union>
```





# **Quick Reference**

# XML Schema (XSD)

Part 2: Datatypes Version 1.0

W3C Recommendation 02 May 2001

http://www.w3.org/TR/xmlschema-2/

#### Table of Contents:

### **Primitive Datatypes**

 string, boolean, decimal, float, double, duration, dateTime, time, date, gYearMonth, gYear, gMonthDay, gDay, gMonth, hexBinary, base64Binary, anyURI, Qname, NOTATION

#### **Derived Datatypes**

 normalizedString, token, language, NMTOKEN, NMTOKENS, Name, NCName, ID, IDREF, IDREFS, ENTITY, ENTITIES, integer, nonPositiveInteger, negativeInteger, long, int, short, byte, nonNegativeInteger, unsignedLong, unsignedInt, unsignedShort, unsignedByte, positiveInteger

## **Constraining Facets**

 length, minLength, maxLength, pattern, enumeration, whiteSpace, maxInclusive, maxExclusive, minExclusive, minInclusive, totalDigits, fractionDigit

#### **Datatype Components**

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