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Constraining Facets	
length [1]	§ 4.3.1
<length fixed = boolean : false id = ID value = nonNegativeInteger {any attributes with non-schema namespace ...}> Content: (annotation?) </length>	

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 = ID 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>	
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<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>	
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<minExclusive fixed = boolean : false id = ID value = anySimpleType {any attributes with non-schema namespace ...}> Content: (annotation?) </minExclusive>	

minInclusive [10] § 4.3.10

```
<minInclusive
  fixed = boolean : false
  id = ID
  value = anySimpleType
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</minInclusive>
```

totalDigits [11] § 4.3.11

```
<totalDigits
  fixed = boolean : false
  id = ID
  value = positiveInteger
  {any attributes with non-schema namespace ...}>
  Content: (annotation?)
</totalDigits>
```

fractionDigits [12] § 4.3.12

```
<fractionDigits
  fixed = boolean : false
  id = ID
  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
  name = NCName
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (restriction | list | union))
</simpleType>
```

Derivation by restriction § 4.1.2.1

```
<restriction
  base = QName
  id = ID
  {any attributes with non-schema namespace ...}>
  Content: (annotation?, (simpleType?, (minExclusive |
    minInclusive | maxExclusive | maxInclusive |
    totalDigits | fractionDigits | length |
    minLength | maxLength | enumeration |
    whitespace | pattern)*))
</restriction>
```

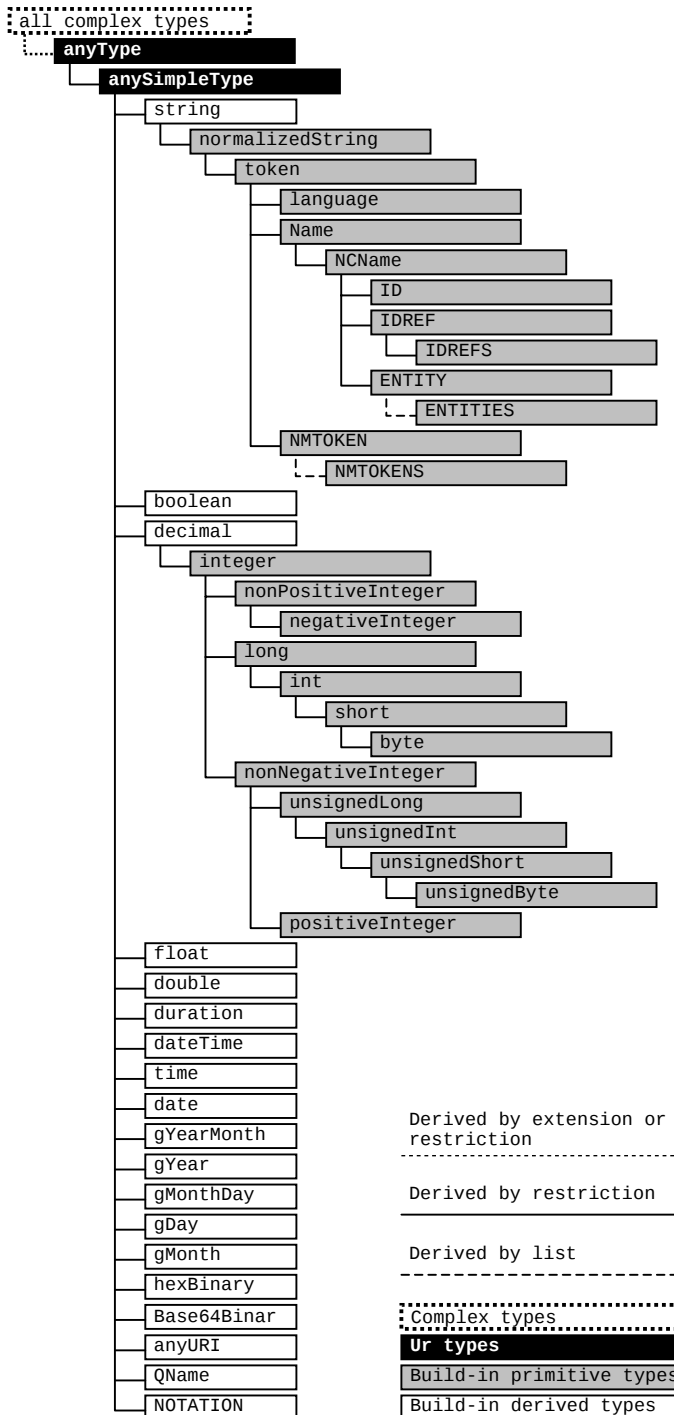
Derivation by list § 4.1.2.2

```
<list
  id = ID
  itemType = QName
  {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>
```

Build-in Datatype Hierarchy



Quick Reference

XML Schema (XSD)

Part 2: Datatypes
Version 1.0

W3C Recommendation
02 May 2001

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

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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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