

Web Services

- WS Home
- WS Intro
- WS Example
- WS Use

WSDL Tutorial

- WSDL Intro
- WSDL Documents**
- WSDL PortType
- WSDL Binding
- WSDL and UDDI

SOAP Tutorial

- SOAP Intro
- SOAP Syntax
- SOAP Envelope
- SOAP Header
- SOAP Body
- SOAP Fault
- SOAP HTTP Binding
- SOAP Example

RDF Tutorial

- RDF Intro
- RDF Rules
- RDF Example
- RDF Elements
- RDF Containers
- RDF Collections
- RDF Schema
- RDF Dublin Core
- RDF OWL
- RDF Reference



WSDL Documents

[« Previous](#) [Next Chapter »](#)

A WSDL document is just a simple XML document.
It contains set of definitions to describe a web service.

The WSDL Document Structure

A WSDL document describes a web service using these major elements:

Element	Description
<types>	A container for data type definitions used by the web service
<message>	A typed definition of the data being communicated
<portType>	A set of operations supported by one or more endpoints
<binding>	A protocol and data format specification for a particular port type

The main structure of a WSDL document looks like this:

```
<definitions>

  <types>
    data type definitions.....
  </types>

  <message>
    definition of the data being communicated....
  </message>

  <portType>
```

Search w3schools.com:

Google™ Custom Search

Select Language

WEB HOSTING
UK Reseller Hosting

WEB BUILDING
XML Editor - Free Trial!
FREE Website BUILDER
Free HTML5 Templates

W3SCHOOLS EXAMS
HTML, CSS, JavaScript,
PHP, jQuery, XML, and
ASP Certifications

SHARE THIS PAGE

[f](#) [t](#) [e](#) [g](#) [i](#) [n](#)

[Like](#)

File APIs

DOC XLS
PPT PDF
EML &
Barcodes
+ many MORE!

Convert
Print
Create

```
    set of operations.....  
</portType>  
  
<binding>  
    protocol and data format specification....  
</binding>  
  
</definitions>
```

A WSDL document can also contain other elements, like extension elements, and a service element that makes it possible to group together the definitions of several web services in one single WSDL document.

WSDL Ports

The **<portType>** element is the most important WSDL element.

It describes a web service, the operations that can be performed, and the messages that are involved.

The <portType> element can be compared to a function library (or a module, or a class) in a traditional programming language.

WSDL Messages

The **<message>** element defines the data elements of an operation.

Each message can consist of one or more parts. The parts can be compared to the parameters of a function call in a traditional programming language.

WSDL Types

The **<types>** element defines the data types that are used by the web service.

For maximum platform neutrality, WSDL uses XML Schema syntax to define data types.

WSDL Bindings

The **<binding>** element defines the data format and protocol for each port type.

WSDL Example

This is a simplified fraction of a WSDL document:

```
<message name="getTermRequest">  
  <part name="term" type="xs:string"/>  
</message>
```

Modify
Combine

100% Standalone
No Office Automation



Try Now ➔

.NET Java Cloud Android



WEB RESOURCES

Web Statistics

Web Validation

```
<message name="getTermResponse">
  <part name="value" type="xs:string"/>
</message>

<portType name="glossaryTerms">
  <operation name="getTerm">
    <input message="getTermRequest"/>
    <output message="getTermResponse"/>
  </operation>
</portType>
```

In this example the **<portType>** element defines "glossaryTerms" as the name of a **port**, and "getTerm" as the name of an **operation**.

The "getTerm" operation has an **input message** called "getTermRequest" and an **output message** called "getTermResponse".

The **<message>** elements define the **parts** of each message and the associated data types.

Compared to traditional programming, glossaryTerms is a function library, "getTerm" is a function with "getTermRequest" as the input parameter, and getTermResponse as the return parameter.


[« Previous](#)

[Next Chapter »](#)

Create A Stunning Website Without Any Coding Skills!


Join over 40 million people that have chosen Wix and [create your own site today](#).

Wix.com lets everyone easily design HTML5 websites using an intuitive drag n' drop builder. Pick : our beautiful mobile-optimized templates. Customize anything and get online instantly! Wix gives everything you need in one place - reliable hosting, full support, SEO tools and more.



Governed Data Discovery with BI Office

- ✓ Consistent Look and Feel
- ✓ Re-usability
- ✓ Interaction on the Go


[Read More...](#)

Top 10 Tutorials

- » [HTML Tutorial](#)
- » [HTML5 Tutorial](#)
- » [CSS Tutorial](#)
- » [CSS3 Tutorial](#)
- » [JavaScript Tutorial](#)
- » [jQuery Tutorial](#)
- » [SQL Tutorial](#)
- » [PHP Tutorial](#)
- » [ASP.NET Tutorial](#)
- » [XML Tutorial](#)

Top 10 References

- » [HTML/HTML5 Reference](#)
- » [CSS 1,2,3 Reference](#)
- » [CSS 3 Browser Support](#)
- » [JavaScript](#)
- » [HTML DOM](#)
- » [XML DOM](#)
- » [PHP Reference](#)
- » [jQuery Reference](#)
- » [ASP.NET Reference](#)
- » [HTML Colors](#)

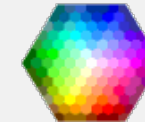
Top 10 Examples

- » [HTML Examples](#)
- » [CSS Examples](#)
- » [JavaScript Examples](#)
- » [HTML DOM Examples](#)
- » [PHP Examples](#)
- » [jQuery Examples](#)
- » [XML Examples](#)
- » [XML DOM Examples](#)
- » [ASP Examples](#)
- » [SVG Examples](#)

Web Certificates

- » [HTML Certificate](#)
- » [HTML5 Certificate](#)
- » [CSS Certificate](#)
- » [JavaScript Certificate](#)
- » [jQuery Certificate](#)
- » [PHP Certificate](#)
- » [XML Certificate](#)
- » [ASP Certificate](#)

Color Picker



[REPORT ERROR](#) | [HOME](#) | [TOP](#) | [PRINT](#) | [FORUM](#) | [ABOUT](#) | [ADVERTISE WITH US](#)

W3Schools is optimized for learning, testing, and training. Examples might be simplified to improve reading and basic understanding. Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using this site, you agree to have read and accepted our terms of use, cookie and privacy policy. Copyright 1999-2014 by Refsnes Data. All Rights Reserved.