

XHTML Declaration Standard:

Defining an XHTML document:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <head>
    <title>Virtual Library</title>
  </head>
  <body>
    <p>This is a <a href="http://www.google.com/">link</a>.</p>
  </body>
</html>
```

XML Declaration:

```
<?xml version="1.0" encoding="UTF-8"?>
```

The declaration line tells the browser we are using an XML document based on version 1 of the specification. In this document, the character set will be UTF-8.

Analogy: Tell me what language and letters you will be using (e.g. I am going to speak Standard American English, using a 26 letter alphabet, and contemporary words, or I am going to speak Russian, using a Cyrillic alphabet, and words from the 1500's)

Document Type Definition

```
<!DOCTYPE html
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

The document type definition describes the content in more detail. Here the browser is provided with a URI that describes valid elements and attributes that the document may use. This is a means for verifying the content of the document.

Analogy: Tell me about the dictionary for your language and how to use it.

Namespace Definition

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
```

This section describes the standard from which the HTML author constructed the HTML.

Analogy: Tell me where to find the dictionary for your language.

The document head describes the document's content to browsers and search engines.

```
<head>
```

```
<title>Virtual Library</title>  
</head>
```

Analogy: Now tell me what this document contains, what to call it, etc.