

W3Schools – Transformaciones

Vía: https://www.w3schools.com/xml/xsl_intro.asp

Documento sobre el que se aplican las transformaciones: catalog.xml (recogido en anexo)

W3S-1)

Transformación

Resultado

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
  <html>
    <body>
      <h2>My CD Collection</h2>
      <table border="1">
        <tr bgcolor="#9acd32">
          <th>Title</th>
          <th>Artist</th>
        </tr>
        <tr>
          <td><xsl:value-of
select="catalog/cd/title"/></td>
          <td><xsl:value-of
select="catalog/cd/artist"/></td>
        </tr>
      </table>
    </body>
  </html>
</xsl:template>
</xsl:stylesheet>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <tr>
        <td>Empire Burlesque</td>
        <td>Bob Dylan</td>
      </tr>
    </table>
  </body>
</html>
```

My CD Collection

Title	Artist
Empire Burlesque	Bob Dylan

W3S-2)

Transformación

Resultado

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
  <html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <xsl:for-each select="catalog/cd">
        <tr>
          <td><xsl:value-of select="title"
/></td>
          <td><xsl:value-of select="artist"
/></td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
  <html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <xsl:for-each select="catalog/cd">
        <tr>
          <td><xsl:value-of select="title"
/></td>
          <td><xsl:value-of select="artist"
/></td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

My CD Collection

Title	Artist
Empire Burlesque	Bob Dylan
Hide your heart	Bonnie Tyler
Greatest Hits	Dolly Parton
Still got the blues	Gary Moore
Eros	Eros Ramazzotti
One night only	Bee Gees
Sylvias Mother	Dr.Hook
Maggie May	Rod Stewart
Romanza	Andrea Bocelli

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W3S-3)

Transformación

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
  <html>
  <body>
  <h2>My CD Collection</h2>
  <table border="1">
    <tr bgcolor="#9acd32">
      <th>Title</th>
      <th>Artist</th>
    </tr>
    <xsl:for-each select="catalog/cd">
      <xsl:sort select="artist"/>
      <tr>
        <td><xsl:value-of select="title"/></td>
        <td><xsl:value-of select="artist"/></td>
      </tr>
    </xsl:for-each>
  </table>
  </body>
  </html>
</xsl:template>

</xsl:stylesheet>
```

Resultado

```
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <tr>
        <td>Romanza</td>
        <td>Andrea Bocelli</td>
      </tr>
      <tr>
        <td>One night only</td>
        <td>Bee Gees</td>
      </tr>
      ...
      ...
      ...
      <tr>
        <td>Big Willie style</td>
        <td>Will Smith</td>
      </tr>
    </table>
  </body>
</html>
```

My CD Collection

Title	Artist
Romanza	Andrea Bocelli
One night only	Bee Gees
Empire Burlesque	Bob Dylan
Hide your heart	Bonnie Tyler
The very best of	Cat Stevens
Greatest Hits	Dolly Parton
Sylvias Mother	Dr.Hook
Eros	Eros Ramazzotti
Still got the blues	Gary Moore
Unchain mv heart	Joe Cocker

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```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
  <html>
  <body>
  <h2>My CD Collection</h2>
  <table border="1">
    <tr bgcolor="#9acd32">
      <th>Title</th>
      <th>Artist</th>
      <th>Price</th>
    </tr>
    <xsl:for-each select="catalog/cd">
      <xsl:if test="price > 10">
        <tr>
          <td><xsl:value-of select="title"/></td>
          <td><xsl:value-of
select="artist"/></td>
          <td><xsl:value-of select="price"/></td>
        </tr>
      </xsl:if>
    </xsl:for-each>
  </table>
  </body>
  </html>
</xsl:template>

</xsl:stylesheet>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
        <th>Price</th>
      </tr>
      <tr>
        <td>Empire Burlesque</td>
        <td>Bob Dylan</td>
        <td>10.90</td>
      </tr>
      <tr>
        <td>Still got the blues</td>
        <td>Gary Moore</td>
        <td>10.20</td>
      </tr>
      <tr>
        <td>One night only</td>
        <td>Bee Gees</td>
        <td>10.90</td>
      </tr>
      <tr>
        <td>Romanza</td>
        <td>Andrea Bocelli</td>
        <td>10.80</td>
      </tr>
      <tr>
        <td>Black angel</td>
        <td>Savage Rose</td>
        <td>10.90</td>
      </tr>
      <tr>
        <td>1999 Grammy Nominees</td>
        <td>Many</td>
        <td>10.20</td>
      </tr>
    </table>
  </body>
</html>
```

My CD Collection

Title	Artist	Price
Empire Burlesque	Bob Dylan	10.90
Still got the blues	Gary Moore	10.20
One night only	Bee Gees	10.90
Romanza	Andrea Bocelli	10.80
Black angel	Savage Rose	10.90
1999 Grammy Nominees	Many	10.20

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W3S-5)

Transformación

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
  <h2>My CD Collection</h2>
  <table border="1">
    <tr bgcolor="#9acd32">
      <th>Title</th>
      <th>Artist</th>
    </tr>
    <xsl:for-each select="catalog/cd">
      <tr>
        <td><xsl:value-of select="title"/></td>
        <xsl:choose>
          <xsl:when test="price > 10">
            <td bgcolor="#ff00ff">
              <xsl:value-of select="artist"/>
            </td>
          </xsl:when>
          <xsl:otherwise>
            <td><xsl:value-of select="artist"/></td>
          </xsl:otherwise>
        </xsl:choose>
      </tr>
    </xsl:for-each>
  </table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Resultado

```
?xml version="1.0" encoding="UTF-8"?>
<html>
  <body>
    <h2>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <tr>
        <td>Empire Burlesque</td>
        <td bgcolor="#ff00ff">Bob Dylan</td>
      </tr>
      <tr>
        <td>Hide your heart</td>
        <td>Bonnie Tyler</td>
      </tr>
      <tr>
        <td>...</td>
        <td>...</td>
      </tr>
      <tr>
        <td>Red</td>
        <td>The Communards</td>
      </tr>
      <tr>
        <td>Unchain my heart</td>
        <td>Joe Cocker</td>
      </tr>
    </table>
  </body>
</html>
```

My CD Collection

Title	Artist
Empire Burlesque	Bob Dylan
Hide your heart	Bonnie Tyler
Greatest Hits	Dolly Parton
Still got the blues	Gary Moore
Eros	Eros Ramazzotti
One night only	Bee Gees
Sylvias Mother	Dr.Hook
Maggie May	Rod Stewart
Romanza	Andrea Bocelli
When a man loves a woman	Percy Sledge
Black angel	Savage Rose

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Transformación

Resultado

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
  <html>
    <body>
      <h2>My CD Collection</h2>
      <xsl:apply-templates/>
    </body>
  </html>
</xsl:template>

<xsl:template match="cd">
  <p>
    <xsl:apply-templates select="title"/>
    <xsl:apply-templates select="artist"/>
  </p>
</xsl:template>

<xsl:template match="title">
  Title: <span style="color:#ff0000">
  <xsl:value-of select="."/></span>
  <br />
</xsl:template>

<xsl:template match="artist">
  Artist: <span style="color:#00ff00">
  <xsl:value-of select="."/></span>
  <br />
</xsl:template>

</xsl:stylesheet>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <body><h2>My CD Collection</h2>
  <p>
    Title: <span style="color:#ff0000">Empire
Burlesque</span><br/>
    Artist: <span style="color:#00ff00">Bob
Dylan</span><br/></p>
  <p>
    Title: <span style="color:#ff0000">Hide
your heart</span><br/>
    Artist: <span style="color:#00ff00">Bonnie
Tyler</span><br/></p>
  <p>
    Title: <span style="color:#ff0000">Greatest
Hits</span><br/>
    Artist: <span style="color:#00ff00">Dolly
Parton</span><br/></p>
  <p>
    Title: <span style="color:#ff0000">Still
got the blues</span><br/>
    Artist: <span style="color:#00ff00">Gary
Moore</span><br/></p>
  <p>
    ...
    ...
    ...
  <p>
    Title: <span style="color:#ff0000">Unchain
my heart</span><br/>
    Artist: <span style="color:#00ff00">Joe
Cocker</span><br/></p>
</body>
</html>
```

My CD Collection

Title: **Empire Burlesque**
Artist: **Bob Dylan**

Title: **Hide your heart**
Artist: **Bonnie Tyler**

Title: **Greatest Hits**
Artist: **Dolly Parton**

Title: **Still got the blues**
Artist: **Gary Moore**

Title: **Eros**
Artist: **Eros Ramazzotti**

Title: **One night only**
Artist: **Bee Gees**

Title: **Sylvias Mother**

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Anexo: catalog.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
  <cd>
    <title>Hide your heart</title>
    <artist>Bonnie Tyler</artist>
    <country>UK</country>
    <company>CBS Records</company>
    <price>9.90</price>
    <year>1988</year>
  </cd>
  <cd>
    <title>Greatest Hits</title>
    <artist>Dolly Parton</artist>
    <country>USA</country>
    <company>RCA</company>
    <price>9.90</price>
    <year>1982</year>
  </cd>
  <cd>
    <title>Still got the blues</title>
    <artist>Gary Moore</artist>
    <country>UK</country>
    <company>Virgin records</company>
    <price>10.20</price>
    <year>1990</year>
  </cd>
  <cd>
    <title>Eros</title>
    <artist>Eros Ramazzotti</artist>
    <country>EU</country>
    <company>BMG</company>
    <price>9.90</price>
    <year>1997</year>
  </cd>
  <cd>
    <title>One night only</title>
    <artist>Bee Gees</artist>
    <country>UK</country>
    <company>Polydor</company>
    <price>10.90</price>
    <year>1998</year>
  </cd>
  <cd>
    <title>Sylvias Mother</title>
    <artist>Dr.Hook</artist>
    <country>UK</country>
    <company>CBS</company>
    <price>8.10</price>
    <year>1973</year>
  </cd>
  <cd>
    <title>Maggie May</title>
    <artist>Rod Stewart</artist>
    <country>UK</country>
```

```

    <company>Pickwick</company>
    <price>8.50</price>
    <year>1990</year>
</cd>
<cd>
    <title>Romanza</title>
    <artist>Andrea Bocelli</artist>
    <country>EU</country>
    <company>Polydor</company>
    <price>10.80</price>
    <year>1996</year>
</cd>
<cd>
    <title>When a man loves a woman</title>
    <artist>Percy Sledge</artist>
    <country>USA</country>
    <company>Atlantic</company>
    <price>8.70</price>
    <year>1987</year>
</cd>
<cd>
    <title>Black angel</title>
    <artist>Savage Rose</artist>
    <country>EU</country>
    <company>Mega</company>
    <price>10.90</price>
    <year>1995</year>
</cd>
<cd>
    <title>1999 Grammy Nominees</title>
    <artist>Many</artist>
    <country>USA</country>
    <company>Grammy</company>
    <price>10.20</price>
    <year>1999</year>
</cd>
<cd>
    <title>For the good times</title>
    <artist>Kenny Rogers</artist>
    <country>UK</country>
    <company>Mucik Master</company>
    <price>8.70</price>
    <year>1995</year>
</cd>
<cd>
    <title>Big Willie style</title>
    <artist>Will Smith</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>9.90</price>
    <year>1997</year>
</cd>
<cd>
    <title>Tupelo Honey</title>
    <artist>Van Morrison</artist>
    <country>UK</country>
    <company>Polydor</company>
    <price>8.20</price>
    <year>1971</year>
</cd>
<cd>
    <title>Soulsville</title>
    <artist>Jorn Hoel</artist>
    <country>Norway</country>

```



```

    <company>WEA</company>
    <price>7.90</price>
    <year>1996</year>
</cd>
<cd>
    <title>The very best of</title>
    <artist>Cat Stevens</artist>
    <country>UK</country>
    <company>Island</company>
    <price>8.90</price>
    <year>1990</year>
</cd>
<cd>
    <title>Stop</title>
    <artist>Sam Brown</artist>
    <country>UK</country>
    <company>A and M</company>
    <price>8.90</price>
    <year>1988</year>
</cd>
<cd>
    <title>Bridge of Spies</title>
    <artist>T` Pau</artist>
    <country>UK</country>
    <company>Siren</company>
    <price>7.90</price>
    <year>1987</year>
</cd>
<cd>
    <title>Private Dancer</title>
    <artist>Tina Turner</artist>
    <country>UK</country>
    <company>Capitol</company>
    <price>8.90</price>
    <year>1983</year>
</cd>
<cd>
    <title>Midt om natten</title>
    <artist>Kim Larsen</artist>
    <country>EU</country>
    <company>Medley</company>
    <price>7.80</price>
    <year>1983</year>
</cd>
<cd>
    <title>Pavarotti Gala Concert</title>
    <artist>Luciano Pavarotti</artist>
    <country>UK</country>
    <company>DECCA</company>
    <price>9.90</price>
    <year>1991</year>
</cd>
<cd>
    <title>The dock of the bay</title>
    <artist>Otis Redding</artist>
    <country>USA</country>
    <company>Stax Records</company>
    <price>7.90</price>
    <year>1968</year>
</cd>
<cd>
    <title>Picture book</title>
    <artist>Simply Red</artist>
    <country>EU</country>

```

```
<company>Elektra</company>
<price>7.20</price>
<year>1985</year>
</cd>
<cd>
  <title>Red</title>
  <artist>The Communards</artist>
  <country>UK</country>
  <company>London</company>
  <price>7.80</price>
  <year>1987</year>
</cd>
<cd>
  <title>Unchain my heart</title>
  <artist>Joe Cocker</artist>
  <country>USA</country>
  <company>EMI</company>
  <price>8.20</price>
  <year>1987</year>
</cd>
</catalog>
```