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CS20 - Web Programming  
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Assignment 3: XML Song List

### XML Online Link

<https://mattia-danese.github.io/CS20-hw3/index.xml>

### Questions

- XML can be used for representing the data of online tax form submissions. A government could easily decide exactly how they would want to represent this data by making their own elements, children, etc. Additionally, tax form submissions would have to be reviewed/verified and a well written DTD can easily define how correct data should be formatted. Thus, one could cross check each submission with a DTD to ensure each tax form was filled out correctly.
- I do like XML as a means for representing data, but would not pick it over the much more common JSON representation. XML can be very nice as the user can completely dictate the structure of the data and the elements used. This, however, also leads to its downfall because representing a lot of data with many different fields/attributes will soon become tedious. Thus, I like XML for representing small static data but would prefer JSON for more complicated data (since simple Javascript scripts can be used to produce a JSON representation for rather big and complex data).

### XML Code

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href = "style.css" ?>

<Songs>
  <Columns>
    <artists>Artists</artists>
    <title>Title</title>
    <genres>Genres</genres>
    <year>Year</year>
  </Columns>

  <Song>
    <artists>
      <artist>Christina Perri</artist>
    </artists>
    <title>A Thousand Years</title>
    <genres>
      <genre>Pop</genre>
    </genres>
  </Song>
</Songs>
```

```
    </genres>
    <year>2011</year>
</Song>
```

```
<Song>
  <artists>
    <artist>Bon Jovi</artist>
  </artists>
  <title>Livin' on a Prayer</title>
  <genres>
    <genre>Rock</genre>
  </genres>
  <year>1986</year>
</Song>
```

```
<Song>
  <artists>
    <artist>Bruno Mars</artist>
  </artists>
  <title>Marry You</title>
  <genres>
    <genre>R&B, Soul</genre>
  </genres>
  <year>2011</year>
</Song>
```

```
<Song>
  <artists>
    <artist>Ed Sheeran</artist>
  </artists>
  <title>Perfect</title>
  <genres>
    <genre>Pop</genre>
  </genres>
  <year>2017</year>
</Song>
```

```
<Song>
  <artists>
    <artist>John Legend</artist>
  </artists>
  <title>All of Me</title>
  <genres>
```

```
        <genre>R&B/Soul</genre>
    </genres>
    <year>2013</year>
</Song>
```

```
<Song>
    <artists>
        <artist>Bad Bunny</artist>
        <artist>Sech</artist>
    </artists>
    <title>Ignorantes</title>
    <genres>
        <genre>Reggaetón</genre>
    </genres>
    <year>2020</year>
</Song>
```

```
<Song>
    <artists>
        <artist>Louis Armstrong</artist>
    </artists>
    <title>What a Wonderful World</title>
    <genres>
        <genre>Holiday</genre>
    </genres>
    <year>1968</year>
</Song>
```

```
<Song>
    <artists>
        <artist>The Beatles</artist>
    </artists>
    <title>I Want to Hold Your Hand</title>
    <genres>
        <genre>R&B/Soul</genre>
        <genre>Alternative/Indie</genre>
        <genre>Children's Music</genre>
        <genre>Folk</genre>
        <genre>Pop</genre>
        <genre>Rock</genre>
    </genres>
    <year>1964</year>
</Song>
```

```

<Song>
  <artists>
    <artist>Miles Davis</artist>
  </artists>
  <title>All Blues</title>
  <genres>
    <genre>Jazz</genre>
  </genres>
  <year>1959</year>
</Song>

<Song>
  <artists>
    <artist>Jack Brooks</artist>
    <artist>Harry Warren</artist>
  </artists>
  <title>That's Amore</title>
  <genres>
    <genre>Pop</genre>
    <genre>Holiday</genre>
  </genres>
  <year>1953</year>
</Song>
</Songs>

```

### CSS Code

```

Songs{
  width: 70%;
  margin: auto;
  display: table;
  margin-top: 10%;
}

Columns {
  font-size: larger;
  font-weight: bold;
}

Song, Columns{

```

```
    display: table;
    width: 100%;
    border: thin solid black;
}

artists, title, genres, year{
    display: table-cell;
    width: 25%;
    padding-top: 7px;
    padding-bottom: 7px;
    padding-left: 7px;
}

genre, artist{
    display: block;
}

title{
    background-color: lightblue;
}

artists{
    background-color: lightcyan;
}

genres{
    background-color: lightgoldenrodyellow;
}

year{
    background-color: lightpink;
}
```