

CMSC 166: Layout and Style Exercise

About

Documentation on the aesthetics side of computer programming: the layout of program source code. Following the good layout scheme in the book Code Complete 2 and w3school's Javascript Style Guide.

Instructions

Give three tips in layout and style in your project.

Project

Project Name: Spotify

Project Description:

A music library that lets you add a singer/artist. An artist can add an album and inside those album are songs of singer/artist.

Reference: Code Complete, Chapter 31 and Javascript Style Guide

Github Project Link: https://github.com/Sedce/music_storage

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Three Tips for Layout

1. Variable Names
2. Spaces around operators
3. Statement Rules

1st Tip: Variable Names

We used underscores for the variable's identifier names and camel case for our function's identifier names.

Variable identifier name: (**list_of_artists**)

```
//Renamed Array  
var list_of_artists = [];  
this.length = 0;
```

Function identifier name: (**displayAllAlbums**)

```
this.displayAllAlbums = function(artist){  
    list_of_albums = this.getArtist(artist).albums;  
    album_array= [];  
    list_of_albums.length -= 1;  
  
    //Change complex algorithms to much simpler and understandable algorithms  
    function checkAndInclude(album, index){  
        album_array[index] = album.title;  
    };  
  
    list_of_albums.forEach(checkAndInclude);  
  
    return album_array;  
}
```

2nd Tip: Space around operators

Always put spaces around operators (= + - * /), and after commas.

```
this.addSong = function (song_title, album_title, artist){  
    var s = new song(song_title);  
    songs_len = this.getAlbum(artist,album_title).songs.length;  
    this.getAlbum(artist,album_title).songs[songs_len] = s;  
    this.getAlbum(artist,album_title).songs.length += 1;  
};
```

The function addSong() adds a song, given with the title, album's title, and the artist. Every operator in the function, in this case is the equal sign (=) operator, there is always a space around it, before and after the operator.

3rd Tip: Statement Rules

For simple statements, always end with a semicolon.

```
//Album Entity
var album = function(title,description)
{
    this.song_count = 0;
    song_list = [];
    return {
        title:title,
        songs:song_list
    };
}
```

Function album with statements inside. Each statement is ended with semicolon (;) including the return statement. The function album returns the title of the album and the list of songs.