Arrays of Objects

```
const songList3 = [
    title: 'Piano Sonata No. 3',
    artist: 'Beethoven',
},
    title: 'Piano Sonata No. 7',
    artist: 'Beethoven',
},
    title: 'Piano Sonata No. 10',
    artist: 'Beethoven',
},
```

Array of 3 objects

```
const songList3 = [
    title: 'Piano Sonata No. 3',
    artist: 'Beethoven',
    },
    title: 'Piano Sonata No. 7',
    artist: 'Beethoven',
    },
    {
       title: 'Piano Sonata No. 10',
       artist: 'Beethoven',
    },
}
```

single object

```
{
   title: 'Piano Sonata No. 3',
   artist: 'Beethoven',
},
```

Song object:

- title
- artist

```
const songList3 = [
   title: 'Piano Sonata No. 3',
    artist: 'Beethoven',
    title: 'Piano Sonata No. 7',
    artist: 'Beethoven',
   title: 'Piano Sonata No. 10',
    artist: 'Beethoven',
 },
for (let j = 0; j < songList3.length; j++) {
  console.log('Song ' + j + ': Title: ' + songList3[j].title +
                           ': Artist: ' + songList3[j].artist);
```

Song 0: Title: Piano Sonata No. 3: Artist: Beethoven Song 1: Title: Piano Sonata No. 7: Artist: Beethoven Song 2: Title: Piano Sonata No. 10: Artist: Beethoven

```
const playlistCollection = [
   id: "01",
    title: "Beethoven Sonatas",
    songs: [
       id: "04",
       title: "Piano Sonata No. 3",
       artist: "Beethoven",
       id: "05",
       title: "Piano Sonata No. 7",
       artist: "Beethoven",
       id: "06",
        title: "Piano Sonata No. 10",
        artist: "Beethoven",
   id: "02",
    title: "Beethoven Concertos",
    songs:
       id: "07",
       title: "Piano Concerto No. 0",
       artist: "Beethoven",
       id: "08",
       title: "Piano Concerto No. 4",
       artist: "Beethoven",
       id: "09",
       title: "Piano Concerto No. 6",
        artist: "Beethoven",
   id: "03",
    title: "Beethoven Variations",
    songs:
       title: "Opus 34: Six variations on a theme in F major",
        artist: "Beethoven",
       id: "11",
       title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
       artist: "Beethoven",
```

Array of 3 Objects

```
const playlistCollection = [
   id: "01",
   title: "Beethoven Sonatas",
   songs: [
       id: "04",
       title: "Piano Sonata No. 3",
       artist: "Beethoven",
       id: "05",
       title: "Piano Sonata No. 7",
       artist: "Beethoven",
       id: "06",
       title: "Piano Sonata No. 10",
       artist: "Beethoven",
   id: "02",
   title: "Beethoven Concertos",
   songs: [
       id: "07",
       title: "Piano Concerto No. 0",
       artist: "Beethoven",
       title: "Piano Concerto No. 4",
       artist: "Beethoven",
       id: "09",
       title: "Piano Concerto No. 6",
       artist: "Beethoven",
   title: "Beethoven Variations",
   songs: [
       title: "Opus 34: Six variations on a theme in F major",
       artist: "Beethoven",
       id: "11",
       title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
       artist: "Beethoven",
```

Array of 3 Objects

```
id: "01",
title: "Beethoven Sonatas",
songs:
    id: "04",
    title: "Piano Sonata No. 3",
    artist: "Beethoven",
    id: "05",
    title: "Piano Sonata No. 7",
    artist: "Beethoven",
    id: "06",
    title: "Piano Sonata No. 10",
    artist: "Beethoven",
```

Each object consists of

- id
- title
- songs array of objects

```
id: "01",
title: "Beethoven Sonatas",
songs:
    id: "04",
    title: "Piano Sonata No. 3",
    artist: "Beethoven",
    id: "05",
    title: "Piano Sonata No. 7",
    artist: "Beethoven",
    id: "06",
    title: "Piano Sonata No. 10",
    artist: "Beethoven",
```

Each object consists of

- id
- title
- songs array of objects

```
id: "04",
   title: "Piano Sonata No. 3",
   artist: "Beethoven",
},
```

Song

- id
- title
- artist

```
const playlistCollection = [
];
console.log (playlistCollection);
```

```
const playlistCollection = [
   id: "01",
   title: "Beethoven Sonatas",
   songs: [
       title: "Piano Sonata No. 3",
       artist: "Beethoven",
       id: "05",
       title: "Piano Sonata No. 7",
       artist: "Beethoven",
       title: "Piano Sonata No. 10",
       artist: "Beethoven",
   title: "Beethoven Concertos",
   songs:
       title: "Piano Concerto No. 0",
       artist: "Beethoven",
       id: "08",
       title: "Piano Concerto No. 4",
       artist: "Beethoven",
       title: "Piano Concerto No. 6",
       artist: "Beethoven",
   title: "Beethoven Variations",
   songs: [
       title: "Opus 34: Six variations on a theme in F major",
       artist: "Beethoven",
       title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
       artist: "Beethoven",
```

▶ [Object, Object, Object]

chrome console

```
const playlistCollection = [
                                                                         title: "Beethoven Sonatas",
                                                                          songs:
                                                                            title: "Piano Sonata No. 3",
                                                                            artist: "Beethoven",
                                                                            title: "Piano Sonata No. 7",
                                                                            artist: "Beethoven",
                                                                            title: "Piano Sonata No. 10",
const playlistCollection = [
];
                                                                                          No. 0",
for (let i = 0; i < playlistCollection.length; i++)</pre>
   console.log(playlistCollection[i]);
                                                                                          No. 4",
                                                                                          No. 6",
                                                                         title: "Beethoven Variations",
                                                                            title: "Opus 34: Six variations on a theme in F major",
                                                                            artist: "Beethoven",
                                                                            title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
                       ▶ Object {id: "01", title: "Beethoven Sonatas", songs: Array[3]}
                       Dobject {id: "02", title: "Beethoven Concertos", songs: Array[3]}
                       ▶ Object {id: "03", title: "Beethoven Variations", songs: Array[2]}
```

chrome console

```
id: "01",
                                                                           title: "Beethoven Sonatas",
                                                                           songs: [
                                                                             title: "Piano Sonata No. 3",
                                                                             artist: "Beethoven",
                                                                             title: "Piano Sonata No. 7",
                                                                             artist: "Beethoven",
                                                                             title: "Piano Sonata No. 10",
                                                                             artist: "Beethoven",
const playlistCollection = [
No. 0",
for (let i = 0; i < playlistCollection.length; i++) {</pre>
   console.log(playlistCollection[i].title)
                                                                                            No. 6",
                                                                           title: "Beethoven Variations",
                                                                             title: "Opus 34: Six variations on a theme in F major",
                                                                             artist: "Beethoven",
                                                                             title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
                                                                             artist: "Beethoven",
                                    Beethoven Sonatas
                                    Beethoven Concertos
                                    Beethoven Variations
                                        chrome console
```

const playlistCollection = [

```
id: "01",
                                                                           title: "Beethoven Sonatas",
                                                                           songs:
                                                                             title: "Piano Sonata No. 3",
                                                                             artist: "Beethoven",
                                                                             title: "Piano Sonata No. 7",
                                                                             artist: "Beethoven",
const playlistCollection = [
」;
for (let i = 0; i < playlistCollection.length; i++) {</pre>
   console.log(playlistCollection[i].title)
   for (let j=0; j < playlistCollection[i].songs.length; j++) {</pre>
      console.log(playlistCollection[i].songs[j]);
                                                                           title: "Beethoven Variations",
                                                                           songs:
                                                                             title: "Opus 34: Six variations on a theme in F major",
               Beethoven Sonatas
               ▶ Object {id: "04", title: "Piano Sonata No. 3", artist: "Beethoven"}
               ▶ Object {id: "05", title: "Piano Sonata No. 7", artist: "Beethoven"}
               ▶ Object {id: "06", title: "Piano Sonata No. 10", artist: "Beethoven"}
               Beethoven Concertos
               ▶ Object {id: "07", title: "Piano Concerto No. 0", artist: "Beethoven"}
               ▶ Object {id: "08", title: "Piano Concerto No. 4", artist: "Beethoven"}
               ▶ Object {id: "09", title: "Piano Concerto No. 6", artist: "Beethoven"}
               Beethoven Variations
               ▶ Object {id: "10", title: "Opus 34: Six variations on a theme in F major", artist: "Beethoven"}
               ▶ Object {id: "11", title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo", artist: "Beethoven"}
```

const playlistCollection = [

chrome console

```
const playlistCollection = [
    id: "01",
    title: "Beethoven Sonatas",
    songs: [
        id: "04",
        title: "Piano Sonata No. 3",
        artist: "Beethoven",
        },
        {
        id: "05",
        title: "Piano Sonata No. 7",
        artist: "Beethoven",
        remains artist: "Beethoven",
        remains artist: "Beethoven",
        remains artist: "Beethoven",
```

```
const playlistCollection = [
];
for (let i = 0; i < playlistCollection.length; i++) {</pre>
   console.log(playlistCollection[i].title)
  for (let j=0; j < playlistCollection[i].songs.length; j++) {</pre>
     console.log(playlistCollection[i].songs[j].title);
      console.log(playlistCollection[i].songs[j].artist);
                          Beethoven Sonatas
                                                                               :ions",
                          Piano Sonata No. 3
                          Beethoven
                                                                               - variations on a theme in F major",
                          Piano Sonata No. 7
                          Beethoven
                                                                               nirty-three variations on a waltz by Diabelli in C majo",
                          Piano Sonata No. 10
                          Beethoven
                          Beethoven Concertos
                          Piano Concerto No. 0
                          Beethoven
                          Piano Concerto No. 4
                          Beethoven
                          Piano Concerto No. 6
                          Beethoven
                          Beethoven Variations
                          Opus 34: Six variations on a theme in F major
                          Beethoven
                          Opus 120: Thirty-three variations on a waltz by Diabelli in C majo
```

Beethoven

```
const playlistCollection = [
   id: "01",
   title: "Beethoven Sonatas",
   songs: [
        id: "04",
        title: "Piano Sonata No. 3",
        artist: "Beethoven",
       id: "05",
       title: "Piano Sonata No. 7",
        artist: "Beethoven",
       id: "06",
       title: "Piano Sonata No. 10",
       artist: "Beethoven",
   title: "Beethoven Concertos",
   songs: [
       id: "07",
       title: "Piano Concerto No. 0",
       artist: "Beethoven",
       title: "Piano Concerto No. 4",
        artist: "Beethoven",
       id: "09",
       title: "Piano Concerto No. 6",
       artist: "Beethoven",
   title: "Beethoven Variations",
   songs: [
       title: "Opus 34: Six variations on a theme in F major",
        artist: "Beethoven",
        id: "11",
       title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo",
       artist: "Beethoven",
```

```
▼ Array[3] 
 ▼0: Object
     id: "01"
   ▼ songs: Array[3]
    ▼0: Object
        artist: "Beethoven"
        id: "04"
        title: "Piano Sonata No. 3"
      ▶ __proto__: Object
     ▼1: Object
        artist: "Beethoven"
        id: "05"
        title: "Piano Sonata No. 7"
      ▶ __proto__: Object
    ▼ 2: Object
        artist: "Beethoven"
        id: "06"
        title: "Piano Sonata No. 10"
      ▶ __proto__: Object
      length: 3
     ▶ __proto__: Array[0]
    title: "Beethoven Sonatas"
   ▶ __proto__: Object
 ▼1: Object
    id: "02"
   ▼ songs: Array[3]
    ▼0: Object
        artist: "Beethoven"
        id: "07"
        title: "Piano Concerto No. 0"
      ▶ __proto__: Object
    ▼1: Object
        artist: "Beethoven"
        id: "08"
        title: "Piano Concerto No. 4"
      ▶ __proto__: Object
     ▼ 2: Object
        artist: "Beethoven"
        id: "09"
        title: "Piano Concerto No. 6"
      ▶ __proto__: Object
      length: 3
     ▶ __proto__: Array[0]
     title: "Beethoven Concertos"
   ▶ __proto__: Object
 ▼ 2: Object
     id: "03"
   ▼ songs: Array[2]
    ▼0: Object
        artist: "Beethoven"
        title: "Opus 34: Six variations on a theme in F major"
      ▶ __proto__: Object
     ▼1: Object
        artist: "Beethoven"
        id: "11"
        title: "Opus 120: Thirty-three variations on a waltz by Diabelli in C majo"
       ▶ __proto__: Object
      length: 2
     ▶ __proto__: Array[0]
     title: "Beethoven Variations"
   ▶ __proto__: Object
   length: 3
 ▶ __proto__: Array[0]
```