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: [
    id: "10",
    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",
    id: "08",
    title: "Piano Concerto No. 4",
    artist: "Beethoven",
    id: "09",
    title: "Piano Concerto No. 6",
    artist: "Beethoven",
  id: "03",
  title: "Beethoven Variations",
  songs: [
    id: "10",
    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);
```

```
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",
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",
```

const playlistCollection = [

▶ [Object, Object, Object]

chrome console

```
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",
const playlistCollection = [
for (let i = 0; i < playlistCollection.length; i++) {
  console.log(playlistCollection[i]);
                                                                                            id: "03",
                                                                                           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 {id: "01", title: "Beethoven Sonatas", songs: Array[3]}
                              ▶ Object {id: "02", title: "Beethoven Concertos", songs: Array[3]}
                              ▶ Object {id: "03", title: "Beethoven Variations", songs: Array[2]}
```

const playlistCollection = |

id: "01",

chrome console

```
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",
const playlistCollection = [
for (let i = 0; i < playlistCollection.length; i++) {</pre>
  console.log(playlistCollection[i].title)
                                                                                                       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",
                                                  Beethoven Sonatas
                                                  Beethoven Concertos
                                                  Beethoven Variations
                                                         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",
const playlistCollection = [
for (let i = 0; i < playlistCollection.length; i++) {
 console.log(playlistCollection[i].title)
 for (let j=0; j < playlistCollection[i].songs.length; j++) {</pre>
   console.log(playlistCollection[i].songs[j]);
                                                                                      id: "03",
                                                                                      title: "Beethoven Variations",
                                                                                      songs: [
                   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

```
id: "01",
                                                                          title: "Beethoven Sonatas",
                                                                          songs: [
                                                                            id: "04",
                                                                            title: "Piano Sonata No. 3",
                                                                            artist: "Beethoven",
                                                                            id: "05",
                                                                            title: "Piano Sonata No. 7",
                                                                            artist: "Beethoven",
                                                                                                      heme in F major",
                                                                                                       ions on a waltz by Diabelli in C majo",
Opus 34: Six variations on a theme in F major
Opus 120: Thirty-three variations on a waltz by Diabelli in C majo
```

const playlistCollection =

```
for (let i = 0; i < playlistCollection.length; i++) {
 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
                               Piano Sonata No. 3
                               Beethoven
                               Piano Sonata No. 7
                               Beethoven
                               Piano Sonata No. 10
                               Beethoven
                               Beethoven Concertos
                               Piano Concerto No. 0
                               Beethoven
                               Piano Concerto No. 4
                               Beethoven
                               Piano Concerto No. 6
                               Beethoven
                               Beethoven Variations
```

Beethoven

Beethoven

const playlistCollection = [

```
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: [
   id: "10",
   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"
        id: "10"
        title: "Opus 34: Six variations on a theme in F major"
       ▶ __proto__: Object
     ▼1: Object
        artist: "Beethoven"
        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]
```