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",
  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",
  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",
  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

```
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",
  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: [
  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",
```

const playlistCollection = [

▶ [Object, Object, Object]

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".
const playlistCollection = [
for (let i = 0; i < playlistCollection.length; i++) {
 console.log(playlistCollection[i]);
                                                                                     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 = [

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++) {
  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

```
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].title);
   console.log(playlistCollection[i].songs[j].artist);
                                 Beethoven Sonatas
                                 Piano Sonata No. 3
                                 Beethoven
                                 Piano Sonata No. 7
                                                                                                   on a theme in F major",
                                 Beethoven
                                 Piano Sonata No. 10
                                                                                                   variations on a waltz by Diabelli in C majo",
                                 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 =

title: "Beethoven Sonatas".

id: "01".

songs: [{ id: "04".

```
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"
        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]
```