

**URL:**

[https://mirarj.github.io/CS20/Assignment7\\_JSON/json1.html](https://mirarj.github.io/CS20/Assignment7_JSON/json1.html)

[https://mirarj.github.io/CS20/Assignment7\\_JSON/json2.html](https://mirarj.github.io/CS20/Assignment7_JSON/json2.html)

**Code:****json1.html**

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Read JSON Demo</title>
</head>

<body>
  <script language="javascript">
    songs = {"songs": [
      {
        "title" : "Umbrella",
        "artists" : ["Rihanna", "Jay-Z"],
        "genres" : ["Pop", "Hip-Hop"],
        "year" : 2007
      },
      {
        "title" : "Attention",
        "artists" : ["Charlie Puth"],
        "genres" : ["Pop"],
        "year" : 2017
      },
      {
        "title" : "One Call Away",
        "artists" : ["Charlie Puth"],
        "genres" : ["Pop"],
        "year" : 2015
      },
      {
        "title" : "Uptown Funk",
        "artists" : ["Bruno Mars", "Mark Ronson"],
        "genres" : ["Pop"],
        "year" : 2014
      }
    ]
  }
}
```

```
},
{
  "title" : "Symphony",
  "artists" : ["Clean Bandit", "Zara Larsson"],
  "genres" : ["Pop"],
  "year" : 2017
},
{
  "title" : "Hey Soul Sister",
  "artists" : ["Train"],
  "genres" : ["Pop"],
  "year" : 2009
},
{
  "title" : "Bohemian Rhapsody",
  "artists" : ["Queen"],
  "genres" : ["Rock"],
  "year" : 1975
},
{
  "title" : "Hips Don't Lie",
  "artists" : ["Shakira", "Wyclef Jean"],
  "genres" : ["Pop", "Latin"],
  "year" : 2006
},
{
  "title" : "Defying Gravity",
  "artists" : ["Kristin Chenoweth", "Idina Menzel"],
  "genres" : ["Broadway"],
  "year" : 2003
},
{
  "title" : "Chammak Challo",
  "artists" : ["Akon", "Hamsika Ayer"],
  "genres" : ["Bollywood"],
  "year" : 2011
},
{
```

```
    "title" : "HIP",
    "artists" : ["MAMAMOO"],
    "genres" : ["K-pop"],
    "year" : 2019
  },
  {
    "title" : "(Crank That) Soulja Boy",
    "artists" : ["Soulja Boy"],
    "genres" : ["Hip-Hop"],
    "year" : 2007
  },
  {
    "title" : "Satisfied",
    "artists" : ["Renée Elise Goldsberry"],
    "genres" : ["Broadway"],
    "year" : 2007
  },
  {
    "title" : "Purple Rain",
    "artists" : ["Prince"],
    "genres" : ["Rock", "Soul"],
    "year" : 1984
  },
  {
    "title" : "Despacito",
    "artists" : ["Luis Fonsi", "Daddy Yankee"],
    "genres" : ["Latin", "Pop"],
    "year" : 2007
  }
]
```

```
document.write(JSON.stringify(songs))
```

```
</script>
```

```
</body>
```

```
</html>
```

## json2.html

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Read JSON Demo</title>
<script src="https://code.jquery.com/jquery-3.6.4.js"
integrity="sha256-a9jBBRygX1Bh5lt8GZjXDzyOB+bWve9Ei07tR0Utj/E=" crossorigin="anonymous"></script>
</head>

<body>
  <table>
    <tr><th>Title (Year)</th><th>Artists</th><th>Genres</th></tr>

  </table>

  <script language="javascript">

    songs = []
    $.get("https://mirarj.github.io/CS20/Assignment7_JSON/songs.json", function (data) {
      songs = data.songs;

      // Part 2
      part2 = "<h1>Part 2</h1>" + JSON.stringify(songs);

      // Part 3
      part3 = "<h1>Part 3</h1>";
      part3 += "<table><tr><th>Title (Year)</th><th>Artists</th><th>Genres</th></tr>";
      songs.forEach(song => {
        part3 += "<tr><td>" + song.title + " (" + song.year + ")</td>";
        part3 += "<td><ul>";
        song.artists.forEach(a => {
          part3 += "<li>" + a + "</li>";
        })
        part3 += "</ul></td>";
      });
    });
  </script>

```

```

        part3 += "<td><ul>";
        song.genres.forEach(g => {
            part3 += "<li>" + g + "</li>";
        })
        part3 += "</ul></td>";
    })
    part3 += "</table>";

    // Part 4
    // create html
    possible_genres = new Set();
    songs.forEach(song => {
        song.genres.forEach (genre => {

            possible_genres.add(genre);
        })
    });

    select_html = "<select id='genreselect'>";
    possible_genres.forEach(g=>{
        select_html += "<option>" + g + "</option>";
    })
    select_html += "</select>";

    button_html = "<input type=button value='Filter' id='filterbutton'></input>";
    song_list_html = "<div id='songlist'></div>";

    part4 = "<h1>Part 4</h1>" + select_html + button_html + song_list_html;
    document.write(part2 + part3 + part4);

    // filter, display songs
    filter_button = document.getElementById("filterbutton");
    selected_genre = document.getElementById("genreselect");
    songdiv = document.getElementById("songlist");

    filter_button.addEventListener('click', function () {
        songs_html = "<h1>Songs</h1>"
        songs.forEach(song => {

```

```

        display_song = false;
        song.genres.forEach(genre => {
            if (genre == selected_genre.value) {
                display_song = true;
            }
        })
        if (display_song) {
            songs_html += "<h2>" + song.title + "</h2>";
            songs_html += song.year + "<br />";
            songs_html += "Artists:<br /><ul>";
            song.artists.forEach(a => {
                songs_html += "<li>" + a + "</li>";
            })
            songs_html += "</ul>";
            songs_html += "Genres:<br /><ul>";
            song.genres.forEach(g => {
                songs_html += "<li>" + g + "</li>";
            })
            songs_html += "</ul>";
        }
    })

    songdiv.innerHTML = songs_html;

});

</script>

</body>
</html>

```