**CS 20 Web Programming  
Assignment: JSON Song List**

## Deliverables

## PDF file with a listing of the code and URL of the file working online

## Objectives

Practice with JSON and Javascript

## Tasks

**Part 1: Create a JSON**

Your assignment is to create a JSON to represent your song list (use the same songs as for the xml assignment). Each entry should have space to describe the artist(s), title, music genre(s), and year the song was released.

Note: The JSON object you create should allow each song to have multiple genre's

You must include at least 15 songs. The data must be real. *You may add to the data from the XML assignment if needed.* You must have songs from at least 3 genres (genre could be country, rock, pop, metal, ska, etc) and at least 3 artists. At least one song must have more than oner genre. At least one song must have more than one artist.

Place the JSON object at the top of a file and display the raw data using Javascript.

Save this file as json1.html

**Part 2: Serialize and display**

Move the data to a separate file. The file should have data only – you may not have any variable assignments.

Read the file.

Display all data on the page as a raw string

Save this file as json2.html

**Part 3: User-friendly display**

Add the following functionality to json2.html:

Display all data in a user-friendly format in a table or something similar to -

Who Loves You

Artist: The Four Seasons

Genre: rock, disco

Released 1975

**Part 4: Filter the data**

Create a form that allows the user to pick a genre. The form should have a drop-down box (<select>) listing the possible genres plus a button labeled "Filter". You must read the genres from the JSON song list.

When the user clicks the button, display only song titles from the selected genre in a user-friendly format.

*Note: All items MUST be displayed on the page - not in an "alert"*

## Questions

## Which do you prefer: XML or JSON? And why?

## Rubric

All deliverables provided – 10 points

All parts of the assignment completed – 60 points

Quality of code + effort – 30 points