**CS 20 Web Programming  
Assignment 6:   
Product List in XML and JSON**

## Objectives: Practice with XML and CSS

## Task1: XML

## Create a file called products.xml. products.xml is an XML document that represents a set of products. Each product should have the following:

## Name

## Description

## Price

## Category

## *Products need to be able to have more than one category*. Each category needs to be listed in its own tag. Ie, putting categories together in a string is not allowed for this assignment. Example product:

## Name: Vintage T-shirt Description: Tie-die Grateful Dead T-shirt Price: $35 Categories: clothing, vintage

## Create a tag called <product> which will contain all data. Think about the best organization for the rest of the data.

## Your file must include at least 8 products. There must be at least 3 categories across all products. At least 2 products should be in more than one category.

* Your XML file must be well-formed *and* valid. You do not need a schema.
* There should NO HTML code in your XML file – for ex, no heading tags.

## Create a CSS file (products.css) for an aesthetic display of the data (see the example files in canvas for inspiration)

## View all files online (you will need to use your cPanel hosting)

## Task 2: JSON

**Create a file called products\_json.html**

In a script, place a JSON to represent the same list of products from Task 1. The JSON should be assigned to a global variable. (Note: all requirements for the XML data also apply to the JSON data)

Convert the JSON to a string and display the string.

## Rubric

products.xml file works online and displayed properly using CSS – 50 points

products1.html works online - 30 points

All deliverables provided – 10 points

Creativity/effort – 10 points

**Deliverable Worksheet:**

* All code files uploaded to canvas (xml/html/css) – you may use a zip file
* URL of products.xml online https://oliverz.sgedu.site/homework6/products.xml
* URL for products\_json.html https://oliverz.sgedu.site/homework6/products\_json.html
* Answers to questions
  1. Discuss a case study for using a technology such as XML or JSON.  
       
     Most technologies that need one of these could probably use either. JSON and XML are both used to store data, so anything that needs data could be useful. For example, games could store player data in these, or things like online shopping could use these formats to store their stock, and use HTML and Javascript to parse through and display.
  2. Which do you prefer: XML or JSON? And why?

I prefer JSON, it is slightly more readable, and I find it easier to create JSON files as the HTML formatting of XML maens you have to type a lot more.