# Assignment # 3 – XSLT Stylesheet

**Due Date:** February 24th 2014, 6:00 PM

# Objectives

Learn how to generate transforms using XSLT style sheets.

# Description

You've completed web page development and so now it is time to take the process of template generation to a new level: XSLT. This assignment requires you to create an XSLT stylesheet that transforms the provided XML document (named “bookstore.xml”) into a web page (XHTML strict, XHTML transitional, or HTML5).

# Requirements

Your XSLT stylesheet requirements:

* Must output XHTML strict, XHTML transitional, or HTML5 so as to conform to well-formedness rules
* Your XML document must include the stylesheet PI for output purposes
* The stylesheet must display all elements of the bookstore.xml document which include:
  + name
  + description
  + course applicability (plural)
  + authors (plural)
  + publisher
  + price
  + stock section which includes: category, copies in stock, (link to) cover image (images provided), availability
* Your stylesheet must make use of the following XSLT elements:
  + for-each
  + template
  + apply-template
  + choice
  + if
* Your stylesheet must offer the following in its outputted XHTML document:
  + A linkable list of books at the top of the page (see the bookstore-sample.xsl file in the examples folder on share out). Note that these links should work (I.e. hyperlink to the book listing lower on the page, so use the generate-id() function)
  + A div that has a border and wraps around the book image as well as contains all of the above listed information

Create the following:

1. Your XSL file
2. The XML document that gets translated
3. Any and all supporting CSS files and images

# Hints

* Refer to the web sites found at the back of slides for the week
* Use the documents that are posted on share out. Many of them demonstrate very similar (or even the same) examples as what you are being ask to do for this assignment
* refer to the PDF documents on share out – they contain many of the functions, axes, and elements that are commonly used
* You can perform browser based (client based) transforms for this (your web browser should do this for you (try both Internet Explorer and Firefox)

# Submission

You will work individually for this assignment.

Your submission will be one zip file containing one (1) XSL file with the extension being “.xsl” and any CSS files (with the extension “.css”)and image files that you need. **You will also include the images that are required to be viewed with your solution**. The naming convention will be lastname-firstname-assign6.xsl (e.g. Ferguson-Arron-assign5.xsl) and submitted to the drop box on D2L.

# Marks

The assignment is worth 10 marks in total.

* 2 marks – successfully linking within your output page (using the generate-id() function)
* 2 marks – successfully transforming to XHTML strict or XHTML transitional
* 6 mark – For adhering to the requirements given in this assignment