

IMY 210

Unit Assignment 3: XSLT and FO

During this assignment you will be creating a **XSLT stylesheet documents** (**a3-style.xsl**, **a3-fo.xsl**) to stylise the provided XML document (**pokemon.xml**). The assignment will not only test your ability to create a stylesheet document but also your understanding of the XSLT, XPath, XML-FO and their implementations.

At the end of this assignment the marker should be able to:

- Open your xml file and be given a layout similar to screenshots **xslt_001.png** and **xslt_003.png**.
- Generate a pdf (similar to **fo_demo.pdf**) using the FOP command.

Important!

- Make frequent backups of your working files in different locations.
- This is an individual assignment.
- In terms of the class notes, the scope of this assignment is unit 2, Themes 4 - 6.

Warning!

- If your final XSLT file is **not well-formed**, you will receive no higher than 50% for this assignment.
- Your style sheet **must** be **data-agnostic**. In other words, it must work on any XML source with the same tag set, regardless of the data.
- 10% of this assignment's mark go towards styling. Spend some time making your assignment presentable.

Provided Files

- **pokemon.xml**: An XML file that holds information about Pokemon (a much larger file will be used when marking your submission).
- **image.zip**: All the image you could possibly need. Do **not** change the image names. Do **not** re-upload this zip file. Do **not** change the directory of the images (refer to the **folder_structure.png**).
- **screenshot.zip**: All the guiding image you need to setup your XSL files

Note

- You are **welcome to include additional images, font, and CSS files**. All additional files need to be place inside a src folder (refer to folder_structure.png)
- Your final styling does not have to be exactly the same as the one shown in the example. Styling contributes 10% of the final mark so take some time to stylise your final submission.

Task

- Study the given xml and images (screenshots) to get a general idea on how to layout the provided data.
 - raw_000.png provide the general layout without styling
 - 000.png provided a layout with an included CSS
- **Complete the definition in a3-style.xsl.**
- Stylised your stylesheet by adding colours and images.
- **Complete the definition in a3-fo.xsl.**
- Refer to the **fo_demo.png** to understand the general layout.
- **Ensure your a3-fo.xsl is able to generate a pdf file with the given XML.**
- Once you have completed these tasks refer to the next section (Requirements) to complete your assignment.

Requirements

You will be evaluated on the following criteria:

- Applications of templates.
- Use of literal elements.
- Use of logic conditions.
- Sorting entries alphanumerically.
- Page formatting.
- Styling and formatting of content.
- Appropriate use of functions.
- Similarity to the given results.
- The data-agnostic capability of your XSLT file.

Notes:

- Here are a few attributes to be used for basic styling; the format is the same as that of CSS.
 - font-weight
 - font-size
 - color
 - margin
 - padding
- Other styling details
 - Page dimension: width-60mm, height-65mm
 - The backdrop colour is #49D0B0.
 - Margins are all 5mm.
 - Use default font size, small font should be 3mm.

Warning:

- The inability to generate a pdf from the provided XML will limit the final mark of this section to 50%.
- When referencing an image, keep in mind all images will be located in the folder structure provided.
- You will be penalised if your final file's format is not the same as the file required.

Submission

- Double-check that you adhered to the **Warning** statements at the start of this specification.
- Double-check that you have included your details within each XSL.
- Compress all relevant files (xsl, css, images, etc.) into an archive named **a3.zip**. Do **not** re-upload the images provided. You should include all additional images you used, but keep in mind your upload should not exceed **1MB**.
- Make a final backup of all your files and keep them in a safe place.
- Submit your ZIP file to link provided on clickUP.