The Basics of XML

The aim of this tutorial is to help you to practice your understanding of the basics of XML.

```xml
<?xml version="1.0"?>
<ancient_wonders>
 <wonder>
      <name>Colossus of Rhodes</name>
      <location>Rhodes, Greece</location>
      <height units="feet">107</height>
 </wonder>
</ancient_wonders>
```

1. Create a new document `wonders.xml` and copy and paste the above code. You can also find the code in the text file on Stream. Make sure your indentation is correct.

    In the above XML document, add another ancient wonder element for the Great Pyramid of Giza located at Giza in Egypt and with the height of 455 feet. Save file `wonders.xml`

2. For each `<wonder>` in this XML document, just below the `<name>` element, add the `<main_image>` elements with attributed filename whose values are `colossus.jpg"` and "`pyramid.jpg`" respectively.

3. The research on the two wonders of the world came in part from the sectionid of the newspaper (and the newspaper's id) identified in the *sources* below:

    - Colossus of the Rhodes: `sectionid 56` and `newspaperid 21;`
    - Pyramid of Giza: `sectionid 29` and `newspaperid 112`

    Add the `<source>` element as a child of each `<wonder>` element with attributes `sectionid` and `newspaperid` and as an empty element.

4. The Colossus of Rhodes also has the Greek name, Κολοσσός της Ρόδου. Add a language attribute to the `<name>` element and add a new `<name>` element for the Greek name of the Colossus. Also make the necessary addition to the entry for the Pyramid. Save the XML document `wonders.xml.`

5. Using your favourites graphics application, draw the structure of your XML document as a tree with its root at the top. The nodes of the tree should be of various types including *elements, attributes, comments and text* but do not include the full text in the diagram to avoid clutter – use the word, `text`, as a place-holder for full text. Save the diagram as `wonders-design.png`

6. Create a CSS stylesheet, `wonder.css`, to display the data in the XML stylesheet in a Web browser. Link your stylesheet to the XML document. (To learn how to do this, study example in `xml_worked_example.zip`)

7. Upload your XML document to your hosted website.