

# Test 01: XML (due Wed, 2021-09-08)

Instructions: Answer the following questions and upload your answers to Canvas. All tests in this course are open book, so you can look things up, but you cannot receive help from another person.

Create your answers in <code>oxygen</code> as a plain-text document, which you can do by creating a new document (using the File → New menu) and typing “text” into the “Type filter text” box. Do not use a word processor (like Microsoft Word) because word processors do things like changing your straight quotation marks to curly ones, which you don’t want. Your answer file must follow our file-naming conventions ([http://dh.obdurodon.org/file-naming\\_conventions.xhtml](http://dh.obdurodon.org/file-naming_conventions.xhtml)), using “.txt” as the filename extension (to indicate that you are submitting a plain-text file).

## Required questions

1. The following elements do not follow proper naming conventions. For each element, explain why this is the case and suggest an alternative element name that does not violate well-formedness. (2 points)
  - a. `<3musketeers> </3musketeers>`
  - b. `<phone book> </phone book>`
2. Name two XML well-formedness requirements (other than the element naming restrictions above). (2 points; name more than 2 for extra credit)
3. Describe how descriptive markup differs from presentational markup and give an example of each. (2 points)
4. XML elements may have 1) element content, 2) text content, or 3) mixed content, or they may be 4) empty. Give an example of each. (4 points)

## Extra-credit questions

1. What is the difference between a well-formed and well-balanced XML document? (1 point)
2. Why is the formal model of XML described as a tree? Include a small example to illustrate your explanation. (2 points)