

Creative Computing

Homework 1

Encode a real world thing into XML (HTML)

This can be anything that has a “nested” structure, physical or abstract. For example:

- your bookshelf, makeup container, spice rack in the kitchen
- schools of design, art movements, plant species relationships

But must satisfy requirements:

1. The structure should be interesting: not repetitive, notice in the GOOD example below, leaf nodes are at two different levels. (3-deep, 2-deep)
2. Aim for between **15-20 leaf nodes**. (more is okay)
3. Your layout should have good tab spacing.

helpful notes:

- XML doesn't allow spaces, substitute spaces with a character like a dash.
- In the example below, for clarity I've colored the leaf nodes green.
- In reality, my bookshelf is just 1 bookshelf, but notice how I invented containers, like a “non-fiction” section, it's not a physical container.

```
<bookshelf>
  <non-fiction-section>
    <science-section>
      <Origin-of-Species />
      <Six-Easy-Puzzles />
    </science-shelf>
    <philosophy>
      <Plato's-Rupublic />
      <Thus-Spake-Zarathustra />
      <Principia-Mathematica />
    </philosophy>
  </non-fiction-shelf>
  <sheet-music>
    <Bach-inventions />
    <Debussy-Arabesque />
    <Well-Tempered-Klavier />
  </sheet-music>
</bookshelf>
```

Good: diverse layout

```
<bookshelf>
  <Fahrenheit-451 />
  <Brave-New-World />
  <Alas-Babylon />
  <Binti />
  <The-Fifth-Season />
  <Plato's-Rupublic />
  <Thus-Spake-Zarathustra />
  <Principia-Mathematica />
  <Critique-of-Pure-Reason />
  <Origin-of-Species />
  <Six-Easy-Puzzles />
</bookshelf>
```

Bad: boring layout