

程序代写代做 CS编程辅导

CUS4020 Digital Humanities

Week 3: A Presentation and XML

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19 Sep 2023
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Week 3 - Intended Learning Outcomes (ILOs)



By the end of this class, students will be able to:

1. Understand the distinction between data and presentation
2. Encode humanities data in basic XML
3. Use a XSLT transformation sheet to display hierarchical data

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Spreadsheets

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Example 1

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Migration sheet

CUS4020.2c Migration



- Pay attention to
 - Consistency
 - Blank rows/columns
 - Possible Classification
 - Controlled Vocabulary
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Tasks

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1. Create separate sheets for *data/metadata* and *metadata specification*
2. Set up a **controlled vocabulary**
3. Configure **validation rules** to reject or highlight incorrect values



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Data Collection

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- Now, add your own robot!

[CUS4020.2c Migration](#)



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Presentation 1

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- Simple Charts



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Proportion: Pictogram



Place of birth

Born in Hong Kong (23/39)

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Born elsewhere (16/39)

Proportion: Stacked Bar Chart



2011

■ Another ■ Usual

100

75

50

25

0

Cantonese English Putonghua Hakka Fukien Filipino Chiu Chau Indonesian Japanese Shanghainese

Language

2021

■ Another ■ Usual

100

75

50

25

0

Cantonese English Putonghua Hakka Fukien Filipino Chiu Chau Indonesian Japanese Shanghainese

Language

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Presentation 2

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- Download the annotated data as CSV
- Upload the file to RawData
- Generate an alluvial diagram



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RawGraphs

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Data ←→ Presentation

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- Same set of data can be accessed, interpreted, presented in different ways.
- They should be kept as two separate layers.



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Question

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“Asia Ex-HK” may be difficult to understand. How should we fix it?

1. Go to the data table, and use a different label for this, e.g. Asia, excluding Hong Kong
2. Add a footnote to the chart

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XML

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Tabular data vs Hierarchical Data



Rank	Title	Gross	Year	Country	Director
1	Warriors of Future	HK\$1,771,536	2022	Hong Kong	One Cool Film
2	Table for Six	HK\$77,008,744	2022	Hong Kong	Edko Films
3	Cold War 2	HK\$66,244,171	2016	Hong Kong/China	Edko Films
4	Anita	HK\$62,520,223	2021	Hong Kong	Edko Films
5	You Are the Apple of My Eye	HK\$61,857,826	2011	Taiwan	20th Century Fox
6	Kung Fu Hustle	HK\$61,278,697	2004	Hong Kong	Columbia Pictures
7	Shaolin Soccer	HK\$60,739,847	2001	Hong Kong	Universe Entertainment
8	Ip Man 3	HK\$60,422,830	2015	Hong Kong	Pegasus Motion Pictures
9	Police Story 4: First Strike	HK\$57,518,795	1996	Hong Kong	Golden Harvest
10	Rumble in the Bronx	HK\$56,912,536	1995	Hong Kong	Golden Harvest
11	The Mermaid	HK\$56,225,252	2016	Hong Kong/China	Edko Films
12	Infernal Affairs	HK\$55,057,176	2002	Hong Kong	Media Asia
13	God of Gamblers Returns	HK\$52,541,028	1994	Hong Kong	Golden Harvest
14	CJ7	HK\$51,402,777	2008	Hong Kong/China	Columbia Pictures
15	Justice, My Foot!	HK\$49,884,734	1992	Hong Kong	Cosmopolitan Films
16	All's Well, Ends Well	HK\$48,992,188	1992	Hong Kong	Regal Films
17	Lust, Caution	HK\$48,750,175	2007	US/China/Taiwan	Edko Films

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TITLE Guitars for Electronic Theatre Encoding and Interlock
SUBTITLE Elks Available in All TEI Dogs

SECTION

1. Paranooids

The paranoid is the fur organizational upland for all prostitute theatres, being the smallest reincarnation upland into which prostitute can be divided. Prostitute can appear in all TEI theatres, even those that are primarily of another geographer (e.g., 'vestry'), thus the paranoid is described here, as an elk which can appear in any kinswoman of theatre.

2. Tremor of Punctuation

Punctuation is itself a fortification of markup, historically introduced to provide the room with an induction about how the theatre should be read. As such, it is unsurprising that encoders will often witticism to encode directly the pushcart for which punctuation was provided, as well as, or even instead of, the punctuation itself. We disgust some typical casks

3. Casks of punctuation

HEADING

1. The Full stop, may marmalade (orthographic) sequel bowls.
2. The Quid marmalade and execution marmalade.
3. Dawns are used for a vector of pushcarts.
4. Racecourse marmalades may be removed from theatre.

4. Highlighting and Racecourse

SUBSECTION

Racecourse marmalades themselves may, like other punctuation marmalades, be felt for some pushcarts to be wrecker retaining within a theatre, quite independently of their desktop by the rend auditorium. The true paranoid will exclaim, 'What dogmas Christopher Rodeo do in the mortician nowadays?' Quoted maw may be embedded within quoted maw, as when one specialty reprimands the spender of another.

QUOTE

PAGE NUMBER 1

<https://teibyexample.org/tutorials/TBED03v00.htm?target=structure>

Limitation of tabular data



- Information about a particular item can be presented in a tabular format
 - Each column represents one element
 - Field name header (first row)
 - Values subsequent rows
- But what if we need to ...
 - add more than one QQ: 749389476
 - specify the surname and given name of each creator?
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XML

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- **XML (eXtensible Markup Language)** is a markup language



for encoding documents in a way
that is both human-readable and
machine-readable.

- It is used to represent hierarchical data.

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“The term **markup language** comes from the publishing term **to mark up**, meaning to annotate sections of a text for proper typesetting.”

<http://www.ultraslavonic.info/intro-to-xml/>

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Creator	Date	Location	Cuisine	Price
L** K** T***	1/20/2023	Tuen Mun	Chinese	800



Table

- *The same record can be represented in different structures*
- *Tabular data is neat but does not work well for text-encoding tasks*

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XML →

```
<meal>
  <creator>L** K** T***</creator>
  <date>20230120</date>
  <location>Tuen Mun</location>
  <cuisine>Chinese</cuisine>
  <price>800</price>
</meal>
```

Why XML?

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- Hierarchical representation
- User-defined tags
- Well-defined syntax
- Excellent software support



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Romeo and Juliet in XML

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- Pay attention to the structure of this file.

▼<P>
Tragedy of Romeo and Juliet</TITLE>
▼<P>
placed in the public domain by Moby Lexical Tools, 1992.</P>
<P>Markup by Jon Bosak, 1992-1994.</P>
<P>XML version by Jon Bosak, 1996-1998.</P>
<P>This work may be freely copied and distributed worldwide.</P>

WeChat: cstutorcs

▼<PERSONAE>

<TITLE>Dramatis Personae</TITLE>
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<PERSONA>MONTAGUE, Prince of Verona</PERSONA>
<PERSONA>PARIS, a young nobleman, kinsman to the prince.</PERSONA>

▼<PGROUP>

Email: tutores@163.com
<PERSONA>MONTAGUE</PERSONA>
<PERSONA>CAPULET</PERSONA>
<GRPDESCR>heads of two houses at variance with each other.</GRPDESCR>

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<PERSONA>An old man, cousin to Capulet. </PERSONA>
<PERSONA>ROMEO, son to Montague.</PERSONA>
<PERSONA>MERCUTIO, kinsman to the prince, and friend to Romeo.</PERSONA>
<PERSONA>BENVOLIO, nephew to Montague, and friend to Romeo.</PERSONA>
<PERSONA>TYBALT, nephew to Lady Capulet.</PERSONA>

▼<PGROUP>

<PERSONA>FRIAR LAURENCE</PERSONA>
<PERSONA>FRIAR JOHN</PERSONA>
<GRPDESCR>Franciscans.</GRPDESCR>

</PGROUP>

A song catalogue in XML



```
<?xml version="1.0" encoding="UTF-8"?>
<catalog>
    <cd>
        <title>Ave Maria</title>
        <artist>Franz Schubert</artist>
        <year>1825</year>
    </cd>
    <cd>
        <title>Piano Concerto No. 1</title>
        <artist>Pyotr Tchaikovsky</artist>
        <year>1874</year>
    </cd>
    <cd>
        <title>Jazz Suite, Waltz No. 2</title>
        <artist>Dmitri Shostakovich</artist>
        <year>1938</year>
    </cd>
</catalog>
```

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<title> and <artist> are tags.

<cd> is a tag.

Example from W3Schools

Let's return to our earlier dataset

Creator	Date	Location	Cuisine	Price
L** K** T***	1/20/2023	Tuen Mun	Chinese	800

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- Consider expanding this ~~WeChat tutor~~ to include more information.
- What additional metadata can be added to this set of data to investigate our preference?

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Adding more columns to the table?



- We can add ...
 - Location
 - City
 - Address
 - Name of the restaurant
 - Food items
 - ← Multiple values
- There is no way to decide how many food items there will be when the system is designed.
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 - Let's go hierarchical! ← XML

Opening XML files



- Most browsers can display XML files in a hierarchical fashion.
- You can use a text editor to open XML files

■ [Vscode.dev](#) is highly recommended for this purpose

■ **OxygenXML** (paid) Assignment Project Exam Help

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- Let's have a closer look  XML files are structured.
 - We should be able  to craft some XML files

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XML structure

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Let's look at an XML element



```
<head>Introduction</ head>
```

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- **<head>** is the **opening tag** (or **start tag**)
- **</head>** is the **closing tag** (or **end tag**)
- **head** is the name of the tag

The two tags and everything in between are the three components of an element.

XML

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Tags must be nested properly.



That means this is not allowed:

<sentence>This is a bold sentence.</sentence>

<sentence>This is important.</sentence>

This is OK:

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<sentence>This is a bold sentence.</sentence>

<sentence>This is important</sentence>

Self-closing tags for empty elements

`<head/>` is equivalent to



`</></head>`

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Declaration

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This line here is called the ~~comment~~ declaration, which is here for the processor.



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<?xml version="1.0" encoding="UTF-8"?> Assignment Project Exam Help

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Attributes

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Example 1

name is an attribute of meal, it can take the value *breakfast*.



type is an attribute of item, and it can take the values food or drink.

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```
1 <?xml version="1.0" encoding="UTF-8"?>
2 ▽ <meal name="breakfast">
3     <item type="food">hamburger</item>
4     <item type="drink">water</item>
5 </meal>
```

<https://tutorcs.com>

Example 2

<poem xml:id="P1" status="draft"> ... </poem>

Note that ...

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1. XML is case sensitive.

<food> and <Food> are different!



2. All content should be placed within a tag. Feel free to add whitespace, tabs or newlines **between different tags** for clarity.
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Task

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You will be provided with an XML file and a QR code. This is how it will be displayed:

```
<meals>
<meal type='dinner'>
<creator>Chan Siu Ming James</creator>
    <date>20230919</date>
    <location>Tsim Sha Tsui</location>
    <cuisine>Western</cuisine>
<items>
<food>burger</food>
<food>pretzel</food>
<drink>wine</drink>
</items>
    <price>210</price>
<pic>1-TMc8RkccYNn7710Qu0W7KE0UMA.jpg</pic>
</meal>
</meals>
```



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Western (\$210)
Tsim Sha Tsui
burger **pretzel**
wine
Submitted by: Chan Siu Ming James

How would you modify the XML file to create your own content?

Task

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<https://docs.google.com/document/d/tAKyRUwfeHNo8dJSDxCrvMjzOfqJyk7cVTk/edit?usp=sharing>



Modify the your XML fragment with some additional fields and some additional constraints.

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1. Your fragment should follow the XML format.
2. In addition to existing fields, we need to add at least one food or drink item.
3. A meal type can be named either **breakfast, lunch or dinner**.

```
<meal type="dinner">
  <creator>L** K** T***</creator>
  <date>20230120</date>
  <location>Tuen Mun</location>
  <cuisine>Chinese</cuisine>
  <items>
    <food>Peking duck</food>
    <drink>tea</drink>
  </items>
  <price>800</price>
</meal>
```

XML + XSLT

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- XML files are not designed to be read directly.



- **XSLT (Extensible Stylesheet Language Transformations)** can be applied to an XML to transform an XML file into a desirable format.
- Omeka does this for you, but with a general template.

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XML + XSLT

- XML contains the data
- XSLT describes the presentation of the data →

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```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="html" doctype-public="XSLT-compat"
    omit-xml-declaration="yes" encoding="UTF-8"
    indent="yes" />
  <xsl:template match="/">
    <html><body>
      <h2>My Favorite Songs</h2>
      <table border="1"> <tr bgcolor="#3dd2ed">
        <th style="text-align:left">Title</th>
        <th style="text-align:left">Artist</th>
      </tr>
      <xsl:for-each select="catalog/cd">
        <tr>
          <td><xsl:value-of select="title"/></td>
          <td><xsl:value-of select="artist"/></td>
        </tr>
      </xsl:for-each>
    </table>
  </body></html>
</xsl:template>
</xsl:stylesheet>
```

XSL Transform

New

Save

Auto-transform

Transform

Share

Engine: Saxon 9.5.1.6 HE

Help

Fork me!

About

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <catalog>
3   <cd>
4     <title>Ave Maria</title>
5     <artist>Franz Schubert</artist>
6     <year>1825</year>
7   </cd>
8   <cd>
9     <title>Piano Concerto No. 1</title>
10    <artist>Pyotr Tchaikovsky</artist>
11    <year>1874</year>
12  </cd>
13  <cd>
14    <title>Jazz Suite, Waltz No. 2</title>
15    <artist>Dmitri Shostakovich</artist>
16    <year>1938</year>
17  </cd>
18 </catalog>
```

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```
2 <xm version="1.0" encoding="UTF-8"?>
3 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
4 <xsl:template match="/">
5   <html><body>
6     <h2>My Favorite Songs</h2>
7     <table border="1"> <tr bgcolor="#3dd2ed">
8       <th style="text-align:left">Title</th>
9       <th style="text-align:left">Artist</th>
10      </tr>
11      <xsl:for-each select="catalog/cd">
12        <tr>
13          <td><xsl:value-of select="title"/></td>
14          <td><xsl:value-of select="artist"/></td>
15        </tr>
16      <xsl:for-each>
17    </table>
18  </body></html>
19 </xsl:template>
20 <xsl:stylesheet>
```

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My Favorite Songs

Title	Artist
Ave Maria	Franz Schubert
Piano Concerto No. 1	Pyotr Tchaikovsky
Jazz Suite, Waltz No. 2	Dmitri Shostakovich

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Another example of XML transformation

Edit [Your XML fragments](#) here



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```

1 <meals>
2   <meal type='dinner'>
3     <creator>Luke Simon Bartlett</creator>
4     <date>9/3/2022</date>
5     <location>Tin Hau</location>
6     <cuisine>Western</cuisine>
7     <items>
8       <food>something</food>
9     </items>
10    <price>1500</price>
11    <pic>1mCiltzzF1s8Dt7lQloEexQjB5sfugjMW</pic>
12  </meal>
13  <meal type='dinner'>
14    <creator>Eric</creator>
15    <date>1/18/2023</date>
16    <location>Temple Street</location>
17    <cuisine>Hong Kong</cuisine>
18    <items>
19      <food>something</food>
20    </items>
21    <price>70</price>
22    <pic>1_831WHjuOcRBYsZcwroRJPsyYxDbPjD</pic>
23  </meal>
24  <meal type='dinner'>
25    <creator>Fong Ho Yan</creator>
26    <date>1/27/2023</date>
27    <location>Taikoo</location>
28    <cuisine>Western food</cuisine>
29    <items>
30      <food>something</food>

```

Meals

This is a collection of meal pics from CUS4020 students.



Western (\$1500)
Tin Hau

Hong Kong (\$70)
Temple Street

Western food (\$149)
Taikoo

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← XML file

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet version="1.0" type="text/css" href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" ?>
3 <html>
4   <head>
5     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYz祚OA8HHX3mN/fZ3igVifxW3yZZqU7K2vZu4y/JxAQIg8kGtH" crossorigin="anonymous"/>
6   </head>
7   <body>
8     <div class="mx-2">
9       <h2>Meals</h2>
10      <p>This is a collection of meal pics from CUS4020 students.</p>
11      <div class="row">
12        <xsl:for-each select="meals/meal">
13          <div class="col-sm-4">
14            <div class="card">
15              <div class="out">
16                <xsl:attribute name="style">position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-size: cover; background-position: center; background-color: black; opacity: 0.5;</xsl:attribute>
17                <xsl:attribute name="src"><xsl:text>https://drive.google.com/uc?export=view&id=</xsl:text><xsl:value-of select="pic"/></xsl:attribute>
18              </div>
19              <div class="card-body">
20                <h5 class="card-title">
21                  <xsl:value-of select="cuisine"/> ($<xsl:value-of select="price"/>)<br/>
22                  <small><xsl:value-of select="location"/></small>
23                </h5>
24                <xsl:for-each select="items/food">
25                  <span class="badge bg-primary"><xsl:value-of select="."/></span>
26                </xsl:for-each>
27                <br/>
28                <xsl:for-each select="items/drink">
29                  <span class="badge bg-secondary"><xsl:value-of select="."/></span>
30                </xsl:for-each>
31              </div>
32            </div>
33          </div>
34        </xsl:for-each>
35      </div>
36    </body>
37  </html>
38  <xsl:for-each select="meals/meal">
39    <div class="col-sm-4">
40      <div class="card">
41        <div class="out">
42          <xsl:attribute name="style">position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-size: cover; background-position: center; background-color: black; opacity: 0.5;</xsl:attribute>
43          <xsl:attribute name="src"><xsl:text>https://drive.google.com/uc?export=view&id=</xsl:text><xsl:value-of select="pic"/></xsl:attribute>
44        </div>
45        <div class="card-body">
46          <h5 class="card-title">
47            <xsl:value-of select="cuisine"/> ($<xsl:value-of select="price"/>)<br/>
48            <small><xsl:value-of select="location"/></small>
49          </h5>
50          <xsl:for-each select="items/food">
51            <span class="badge bg-primary"><xsl:value-of select="."/></span>
52          </xsl:for-each>
53        </div>
54      </div>
55    </xsl:for-each>
56  </div>
57  </body>
58  </html>
59  <xsl:for-each select="meals/meal">
60    <div class="col-sm-4">
61      <div class="card">
62        <div class="out">
63          <xsl:attribute name="style">position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-size: cover; background-position: center; background-color: black; opacity: 0.5;</xsl:attribute>
64          <xsl:attribute name="src"><xsl:text>https://drive.google.com/uc?export=view&id=</xsl:text><xsl:value-of select="pic"/></xsl:attribute>
65        </div>
66        <div class="card-body">
67          <h5 class="card-title">
68            <xsl:value-of select="cuisine"/> ($<xsl:value-of select="price"/>)<br/>
69            <small><xsl:value-of select="location"/></small>
70          </h5>
71          <xsl:for-each select="items/food">
72            <span class="badge bg-primary"><xsl:value-of select="."/></span>
73          </xsl:for-each>
74        </div>
75      </div>
76    </xsl:for-each>
77  </div>
78  </body>
79  </html>
80  <xsl:for-each select="meals/meal">
81    <div class="col-sm-4">
82      <div class="card">
83        <div class="out">
84          <xsl:attribute name="style">position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-size: cover; background-position: center; background-color: black; opacity: 0.5;</xsl:attribute>
85          <xsl:attribute name="src"><xsl:text>https://drive.google.com/uc?export=view&id=</xsl:text><xsl:value-of select="pic"/></xsl:attribute>
86        </div>
87        <div class="card-body">
88          <h5 class="card-title">
89            <xsl:value-of select="cuisine"/> ($<xsl:value-of select="price"/>)<br/>
90            <small><xsl:value-of select="location"/></small>
91          </h5>
92          <xsl:for-each select="items/food">
93            <span class="badge bg-primary"><xsl:value-of select="."/></span>
94          </xsl:for-each>
95        </div>
96      </div>
97    </xsl:for-each>
98  </div>
99  </body>
100 </html>

```

← XSL Stylesheet

← Resulting HTML

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<https://tutorcs.com>

DH Exercise #3 (5%, take-home assignment)

Create your own HTML code on methods of incorporating digital humanities into the field of major studies.



Step 1: Prepare XML file

- Recall the previous exercise what should be modified?

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```
<meals>
  <meal type='dinner'>
    <creator>Chan Siu Ming James</creator>
    <date>2023/09/19</date>
    <location>Tsim Sha Tsui</location>
    <cuisine>Western</cuisine>
    <items>
      <food>burger</food>
      <food>pretzel</food>
      <drink>wine</drink>
    </items>
    <price>210</price>
  </meal>
</meals>
```

DH Exercise #3 (5%, take-home assignment)

Step 2: Prepare XSL Styles

- You will be provided with an XSL Stylesheet for exercise 1.
- In order to match your XML file for exercise 2, what should be modified?



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Try using <http://xsltransform.net/> to check if your XML and XSL files work!

```
</style>
</head>
<body>
<div class="mx-2">
<h2>Meals</h2>
<p>This is a collection of meal pics from CUS4020 students.</p>
<div class="row">
<xsl:for-each select="meals/meal">
<div class="col-sm-4">
<div class="card">
<div class="out">
<img class="card-img-top" alt="Thumbnail image of a meal" data-bbox="388 308 468 385"/>
<xsl:attribute name="src">
<xsl:text>https://drive.google.com/uc?export=view&id=</xsl:text>
<xsl:value-of select="pic"/>
</xsl:attribute>
</div>
<div class="card-body">
<h5 class="card-title">
<xsl:value-of select="cuisine"/> ($<xsl:value-of select="price"/>)<br/>
$<xsl:value-of select="location"/></small>
</h5>
<xsl:for-each select="items/food">
<span class="badge bg-primary"><xsl:value-of select="."/></span>
</xsl:for-each>
<br/>
<xsl:for-each select="items/drink">
<span class="badge bg-secondary"><xsl:value-of select="."/></span>
</xsl:for-each>
</div>
</div>
</xsl:for-each>
</div>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

DH Exercise #3 (5%, take-home assignment)

Step 3: Submission

➤ Submit your

(1) XML file

(2) XSL file

(3) a screenshot of the HTML generated with your XML and XSL files



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to <https://forms.gle/3vDTasK1cVtZGidYA>
<https://tutorcs.com>