TEXT ENCODING: AN INTRODUCTION

A tool for research and pedagogy

November 14, 2018

Olivia Wikle
Digital Initiatives Librarian
omwikle@uidaho.edu

- The process of adding **marks** (or codes or tags) to text to say specific things about specific parts of the text
- Text encoding is a way of "marking up" a text

Whatever our souls are made of, <i>his</i> and <i>mine</i> are the same.

FORGOTTENBOOKS

FORGOTTENBOOKS

FORGOTTEN BOOKS

FORGOT TEN BOOKS

Once upon a midnight dreary while I pondered weak and weary Over many a quaint and curious volume of forgotten lore While I nodded nearly napping suddenly there came a tapping As of some one gently rapping rapping at my chamber door Tis some visitor I muttered tapping at my chamber door Only this and nothing more Ah distinctly I remember it was in the bleak December And each separate dying ember wrought its ghost upon the floor Eagerly I wished the morrow vainly I had sought to borrow From my books surcease of sorrow sorrow for the lost Lenore For the rare and radiant maiden whom the angels name Lenore Nameless here for evermore

Once upon a midnight dreary, while I pondered, weak and weary, Over many a quaint and curious volume of forgotten lore— While I nodded, nearly napping, suddenly there came a tapping, As of some one gently rapping, rapping at my chamber door. "Tis some visitor," I muttered, "tapping at my chamber door— Only this and nothing more." Ah, distinctly I remember it was in the bleak December; And each separate dying ember wrought its ghost upon the floor. Eagerly I wished the morrow;—vainly I had sought to borrow From my books surcease of sorrow—sorrow for the lost Lenore— For the rare and radiant maiden whom the angels name Lenore— Nameless here for evermore.

Once upon a midnight dreary, while I pondered, weak and weary,

Over many a quaint and curious volume of forgotten lore—

While I nodded, nearly napping, suddenly there came a tapping,

As of some one gently rapping, rapping at my chamber door.

"'Tis some visitor," I muttered, "tapping at my chamber door—

Only this and nothing more."

Ah, distinctly I remember it was in the bleak December;

And each separate dying ember wrought its ghost upon the floor.

Eagerly I wished the morrow;—vainly I had sought to borrow

From my books surcease of sorrow—sorrow for the lost Lenore—

For the rare and radiant maiden whom the angels name Lenore—

Nameless here for evermore.

The Raven

By: Edgar Allan Poe

Once upon a midnight dreary, while I pondered, weak and weary,

Over many a quaint and curious volume of forgotten lore—

While I nodded, nearly napping, suddenly there came a tapping,

As of some one gently rapping, rapping at my chamber door.

"'Tis some visitor," I muttered, "tapping at my chamber door—

Only this and nothing more."

Ah, distinctly I remember it was in the bleak December;

And each separate dying ember wrought its ghost upon the floor.

Eagerly I wished the morrow;—vainly I had sought to borrow

From my books surcease of sorrow—sorrow for the lost Lenore—

For the rare and radiant maiden whom the angels name Lenore—

Nameless here for evermore.

MARKUP IS NOT NEW

Electronic Markup

- Standard Generalized Markup Language (SGML)
 - HTML
 - XML

XML

- XML = Extensible Markup Language
 - Both human- and machine-readable
 - International standard, non-proprietary
 - Hardware and software independent
- In XML, tags label portions of text:

Here he again fell faintly back. Again his mind wandered: but he rallied, and less obscurely proceeded.

- Tags
 - Elements
 - Attributes

Elements

■ Elements are the basic, named structural units of an XML document

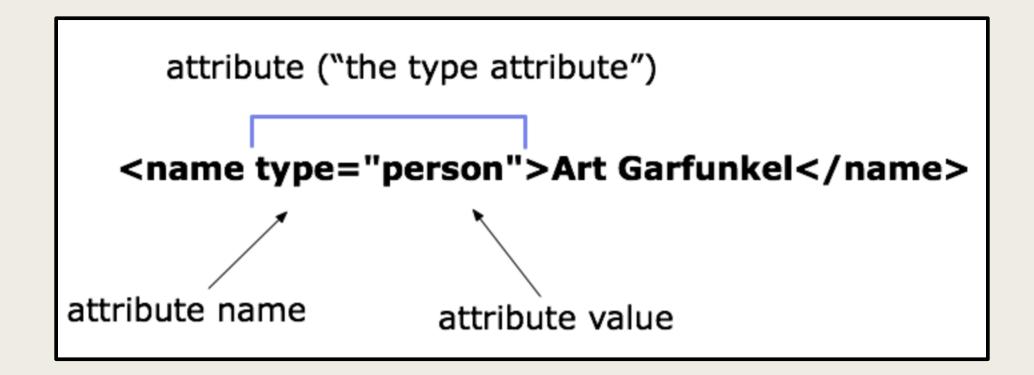
<title>The Odyssey</title>

Attributes

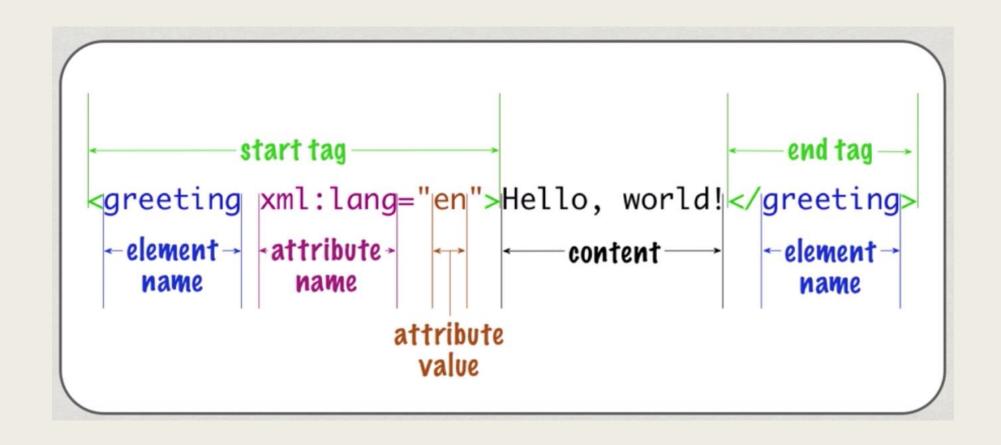
Attributes are name-value pairs (name="value") associated with elements

```
<q who="#dumbledore">
    I sometimes find, and I am sure you know the feeling, that I simply have too
    many thoughts and memories crammed into my mind.
</q>
```

Attributes



Anatomy of an XML Tag



Other Features of XML Documents

- Tags are nested
 - Each XML document has one "root" tag

Other Features of XML Documents

XML Declaration:

```
<?xml version="1.0" encoding="utf-8"?>
```

Comments:

```
<!-- XML and HTML share the same syntax for comments -->
```

Entities:

```
< &gt; &quot; &apos; &amp;
```

XML Example

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
    <chapter>
       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
    </chapter>
    <chapter>
       <title>Chapter II.</title>
        It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
    </chapter>
</book>
```

XML Example

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <ti/tle>Ruth Hall: A Domestic Tale of the Present Time</title>

<chapter>

       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
   </chapter>
   <chapter>
       <title>Chapter II.</title>
       It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
   </chapter>
</book>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
   ≼chapter>
       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
   </chapter>
   <chapter>
       <title>Chapter II.</title>
       It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
   </chapter>
</book>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
   <chapter>
       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
   </chapter>
   <chapter>
       <title>Chapter II.</title>
       It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
   </chapter>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
    <title>Ruth Hall: A Domestic Tale of the Present Time</title>
    <chapter>
       <title>Chapter I. </title>
        The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
    </chapter>
    <chapter>
       <title>Chapter II.</title>
        It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
    </chapter>
</book>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
   <chapter>
       <title>Chapter I.</title>
        The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... (
   </chapter>
    <chapter>
        <title>Chapter II.</title>
       İt was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother—in—
           law, old Mrs. Hall, as she untied her cap-strings... 
    </chapter>
</book>
```

XML in itself is not a vocabulary...

It provides rules (syntax) for structuring encoding

Basic Syntactic Rules of XML

Start tags must have corresponding closing tags:

```
<name>Harry</name>
```

An XML document must have one and only one root element

Attribute values must be quoted with matching single or double quotation marks:

```
<note type="#pencil" place='margin'>...</note>
```

Basic Syntactic Rules of XML

■ Elements must be properly nested:

```
That is a <b><i>very</i></b> interesting problem.
That is a <b><i>very</b></i> interesting problem.
```

Special characters must be escaped:

```
&It; for < and &amp; for &
```

When a document follows xml's syntactic rules, that document is considered "well-formed"

Is this XML document well-formed?

Encoding Languages

■ Text Encoding Initiative (TEI): http://www.tei-c.org/

Music Encoding Initiative (MEI): https://music-encoding.org/

Comic Book Markup Language (CBML): http://dcl.slis.indiana.edu/cbml/

Text Encoding Initiative (TEI)

<q> (quoted) contains material which is distinguished from the surrounding text using quotation marks or a sime to: direct speech or thought, technical terms or jargon, authorial distance, quotations from elsewhere, and passa < said > (speech or thought) indicates passages thought or spoken aloud, whether explicitly indicated in the soul or fictional characters.

@direct may be used to indicate whether the quoted matter is regarded as direct or indirect speech.

@aloud may be used to indicate whether the quoted matter is regarded as having been vocalized or signed.

<quote> (quotation) contains a phrase or passage attributed by the narrator or author to some agency externa att.global.source provides an attribute used by elements to point to an external source.

@source specifies the source from which some aspect of this element is drawn.

<cit> (cited quotation) contains a quotation from some other document, together with a bibliographic reference one occurrence of the word form, used in the sense being described, or a translation of the headword, or an exa <mentioned > marks words or phrases mentioned, not used.

<soCalled> contains a word or phrase for which the author or narrator indicates a disclaiming of responsibility,

Connecting a document to a vocabulary

Schemas

- A language for expressing constraints about XML documents
 - A schema declares the elements and attributes and the allowable content for those elements and attributes.

```
Apples
Apples

Bananas
```

```
  <name>African Coffee Table</name>
  <width>80</width>
  <length>120</length>
```

```
<root xmlns:h="http://www.w3.org/TR/html4/"</pre>
xmlns:f="https://www.w3schools.com/furniture">
<h:table>
  <h:tr>
    <h:td>Apples</h:td>
    <h:td>Bananas</h:td>
  </h:tr>
</h:table>
<f:table>
  <f:name>African Coffee Table</f:name>
  <f:width>80</f:width>
  <f:length>120</f:length>
</f:table>
</root>
```

Valid XML Document:

■ Correct Vocabulary: all elements and attributes actually exist in the specified encoding language

■ Correct Grammar: elements are used in the right place, in the right order

Different Types of Encoding:

Presentational

Concerned with formal properties of a text

Descriptive

- Concerned with content of a text
- Describes what the text is, not how it should be formatted

Presentational Markup

```
This is heathen Greek to you still? Your <i>lapis philosophicus</i>?

She sat down to read Hardy's <i>Jude the Obscure</i>.

A pretty common case, I believe; in all <i>vehement</i> debatings.
```

Descriptive Markup

```
This is heathen Greek to you still? Your <foreign xml:lang="la">lapis philosophicus</foreign>?

She sat down to read Hardy's <title>Jude the Obscure</title>.

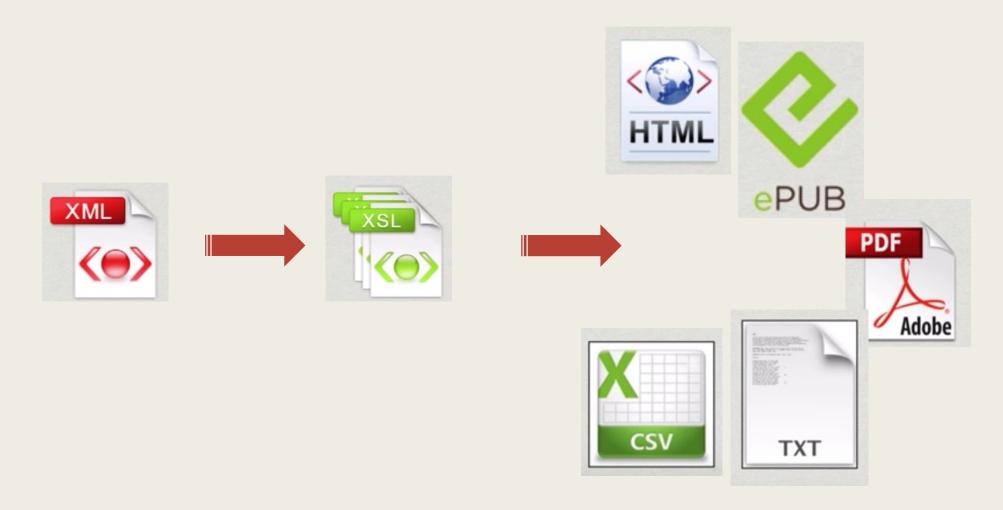
A pretty common case, I believe; in all <emph>vehement</emph> debatings.
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
    <chapter>
       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          Ruth started... 
       Ruth was not sighing because she was about to leave her
          father's roof... 
   </chapter>
   <chapter>
       <title>Chapter II.</title>
       It was so odd in Ruth to have no one but the family at the
          wedding... 
       "Well, I hope Harry will be happy," said Ruth's mother-in-
          law, old Mrs. Hall, as she untied her cap-strings... 
   </chapter>
</book>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
   The old church clock rang solemnly out on the midnight air.
      Ruth started... 
   Ruth was not sighing because she was about to leave her
      father's roof... 
   It was so odd in Ruth to have no one but the family at the
      wedding... 
   "Well, I hope Harry will be happy," said Ruth's mother-in-
      law, old Mrs. Hall, as she untied her cap-strings... 
</book>
```

```
<?xml version="1.0" encoding="utf-8"?>
<!-- this novel is by Fanny Fern -->
<book>
   <title>Ruth Hall: A Domestic Tale of the Present Time</title>
   <chapter>
       <title>Chapter I.</title>
       The old church clock rang solemnly out on the midnight air.
          <name>Ruth started... 
       <name>Ruth</name> was not sighing because she was about to leave her
          father's roof... 
   </chapter>
   <chapter>
       <title>Chapter II.</title>
       It was so odd in <name>Ruth</name> to have no one but the family at the
          wedding... 
       "Well, I hope <name>Harry</name> will be happy," said <name>Ruth's</name>
           mother-in-law, old <name>Mrs. Hall</name>, as she untied her cap-strings... 
   </chapter>
</book>
```

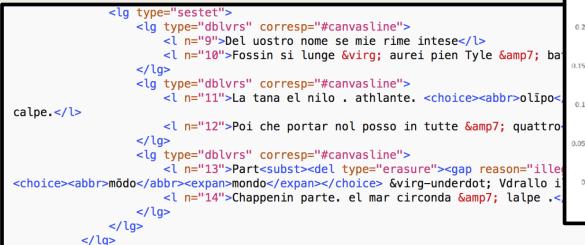
Transforming XML



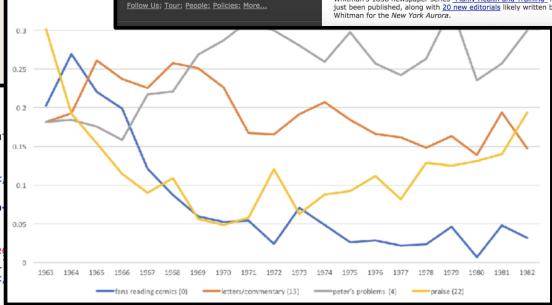
Uses of Text Encoding

- Digital Scholarly Editions
- Research (text analysis, data visualization)

■ Teaching







Uses of Text Encoding: Digital Scholarly Editions

- Goals and Motivations:
 - Textual scholarship
 - Preservation
 - Access
 - Interpretation & reading
 - Computational manipulation and analysis



Uses of Text Encoding: Digital Scholarly Editions

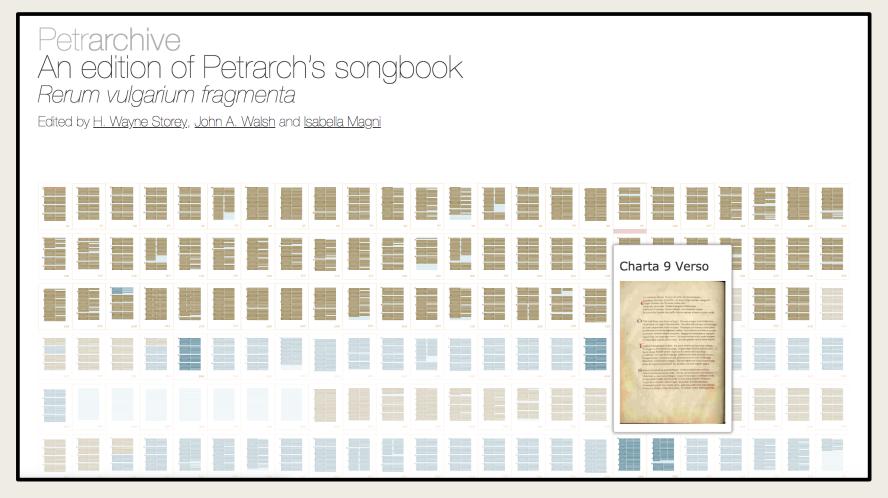
■ Examples:

- William Blake Archive: http://www.blakearchive.org
- Walt Whitman Archive: https://whitmanarchive.org
- Dante Gabriel Rossetti Archive: http://www.rossettiarchive.org
- Mark Twain Project Online: http://www.marktwainproject.org
- Petrarchive: http://dcl.slis.indiana.edu/petrarchive/

Digital Edition: William Blake Archive

```
<change who="#el" when="2014-11-07">converted to P5</change>
         <change who="#el #al" when="2007-03-21">proofread</change>
         <change who="#el" when="2006-01-23">transcribed and encoded</change>
      </revisionDesc>
   </te>
   <text>
      <body>
         <pb facs="per.00068.004.jpg per.00068.004 cropped.jpg" xml:id="leaf01r" type="recto"/>
         <ld>type="poem">
            <head type="main-authorial">Ah, Not This Granite Dead and Cold.<note type="editorial" resp="wwa"</pre>
xml:id="n1">Reprinted as "Washington's Monument, February, 1885" in the "Sands at Seventy" annex to <hi rend="italic">Leaves
of Grass</hi> (1888).</note></head>
            <l>Ah, not this granite, dead and cold!</l>
            <l>Far from its base and shaft expanding-the<lb/> round zones circling, comprehending;</l>
            <\z>Thou, W<hi rend="smallcaps">ASHINGTON</hi>, art all the worlds, the<\ld>\ldots continent's entire-not yours
alone, < lb/> America; </l>
            <!>Europe's as well, in every part, castle of lord<lb/> or laborer's cot,</l>
            <!>On frozen North, or sultry South—the Arab's in<!b/> his tent—the African's;</!>
            <!>Old Asia's there with venerable smile, seated<lb/> amid her ruins;</l>
            <!>(Greets the antique the hero new? 'tis but the<!b/> same—the heir legitimate, continued<!b/> ever,</!>
            <l>The indomitable heart and arm—proofs of the<lb/> never—broken line,</l>
            <l>Courage, alertness, patience, faith, the same-<lb/> e'en in defeat defeated not, the same:)
            <!>Wherever sails a ship, or house is built on land,<lb/> or day or night,</l>
            <l>Through teeming cities' streets, indoors or out,<lb/> factories or farms,</l>
            <!>Now, or to come, or past—where patriot wills<!b/> existed or exist,</!>
            <\>Wherever Freedom, poised by Toleration,<\lb/> swayed by Law,</l>
            <l>Stands or is rising thy true monument.</l>
```

Digital Edition: Petrarchive



Petrarchive: http://dcl.slis.indiana.edu/petrarchive/visindex_2up.php

Digital Edition: Petrarchive

```
<body>
         <pb n="charta 33 recto" facs="../images/vat-lat3195-f/vat-lat3195-f-033r.jpg" />
         <lq type="sonnet" xml:id="rvf146" n="146">
             <lg type="octave">
                 <lq type="dblvrs" corresp="#canvasline">
                      <l n="1"><hi rendition="#red #fs24pt">0</hi><hi rendition="#small-caps">d</hi>ardente uertute ornata et
calda.</l>
                      <l n="2">Alma gentil chui tante carte uergo .</l>
                 </lg>
                 <lq type="dblvrs" corresp="#canvasline">
                      <l n="3">0 sol gia donestate intero albergo .</l>
                      <l n="4">Torre in alto ualor fondata et salda .</l>
                 </lg>
                 <lg type="dblvrs" corresp="#canvasline">
                      <l n="5">0 <choice><abbr>fiāma</abbr><expan>fiamma</expan></choice> &virg; o rose sparse in dolce falda
</l>
                      <l n="6">Di uiua neue &virg; &in; chio mi specchio &amp7; tergo.</l>
                 </lg>
                 <lg type="dblvrs" corresp="#canvasline">
                      <l n="7">0 piacer. onde lali al bel uiso ergo &virg;</l>
                      <l n="8">Che luce soura quanti il sol ne scalda .</l>
                  </lg>
              </lg>
```

```
<body>
          <pb n="charta 33 recto" facs="../images/vat-lat3195-f/vat-lat3195-f-033r.jpg" />
           <lq type="sonnet" xml:id="rvf146" n="146">
               <ld>type="octave">
                    <lq type="dblvrs" corresp="#canvasline">
                        <l n="1"><hi rendition="#red #fs24pt">0</hi><hi rendition="#small-caps">d</hi>ardente uertute ornata et
calda.</l>
                        <l n="2">Alma gentil chui tante carte uergo .</l>
                    </lg>
                    <lg type="dblvrs" corresp="#canvasline">
                        <l n="3">0 sol gia donestate intero albergo .</l>
                        <l n="4">Torre in alto ualor fondata et salda .</l>
                    </lg>
                    <lq type="dblvrs" corresp="#canvasline">
                        <l n="5">0 <choice><abbr>fiāma</abbr><expan>fiamma</expan></choice> &virg: o rose sparse in dolce falda
</l>
                                                 \equiv
                                                                                        Petrarch's Rerum vulgarium fragmenta
                                                       charta 33 recto / Rvf 146-149
                        <l n="6">Di uiua neue
                    </lg>
                    <lg type="dblvrs" corresp</pre>
                        <l n="7">0 piacer. on
                        <l n="8">Che luce sou
                                                146
                                                            Opardente uertute ornata et calda.
                    </lg>
                                                                                                 Alma gentil chui tante carte uergo.
               </lg>
                                                             O sol gia donestate intero albergo.
                                                                                                 Torre in alto ualor fondata et salda.
                                                             O fiāma / o rose sparse in dolce falda
                                                                                                     Di uiua neue / ī chio mi specchio 7 tergo.
                                                       5
                                                             O piacer. onde lali al bel uiso ergo /
                                                                                                 Che luce soura quanti il sol ne scalda.
                                                             Del uostro nome se mie rime intese
                                                                                                  Fossin si lunge / aurei pien Tyle 7 battro.
                                                       9
                                                             La tana el nilo . athlante. olipo.7 calpe.
                                                                                                     Poi che portar nol posso in tutte 7 quattro
                                                             Parti del modo / Vdrallo il bel paese.
                                                                                                    Chappenin parte. el mar circonda 7 lalpe.
```

```
<ld>type="sestet">
                   <lg type="dblvrs" corresp="#canvasline">
                        <l n="9">Del uostro nome se mie rime intese</l>
                        <l n="10">Fossin si lunge &virg; aurei pien Tyle &amp7; battro .</l>
                   </lg>
                   <lg type="dblvrs" corresp="#canvasline">
                        <l n="11">La tana el nilo . athlante. <choice><abbr>olipo</abbr><expan>olimpo</expan></choice>.&amp7;
calpe.</l>
                        <l n="12">Poi che portar nol posso in tutte &amp7; quattro</l>
                   </lg>
                   <lq type="dblvrs" corresp="#canvasline">
                        <l n="13">Part<subst><del type="erasure"><gap reason="illegible"/></del><add>i</add></subst> del
<choice><abbr>modo</abbr><expan>mondo</expan></choice> &virg-underdot; Vdrallo il bel paese .</l>
                        <l n="14">Chappenin parte. el mar circonda &amp7; lalpe .</l>
                   </lg>
               </lg>
          </lg>
                                                 \equiv
                                                                                        Petrarch's Rerum vulgarium fragmenta
                                                       charta 33 recto / Rvf 146-149
                                                           Opardente uertute ornata et calda.
                                                146
                                                                                                 Alma gentil chui tante carte uergo.
                                                             O sol gia donestate intero albergo.
                                                                                                Torre in alto ualor fondata et salda.
                                                             O fiāma / o rose sparse in dolce falda
                                                                                                    Di uiua neue / ī chio mi specchio 7 tergo.
                                                       5
                                                             O piacer. onde lali al bel uiso ergo /
                                                                                                 Che luce soura quanti il sol ne scalda.
                                                             Del uostro nome se mie rime intese
                                                                                                  Fossin si lunge / aurei pien Tyle 7 battro.
                                                       9
                                                             La tana el nilo . athlante. olipo.7 calpe.
                                                                                                     Poi che portar nol posso in tutte 7 quattro
                                                             Parti del modo / Vdrallo il bel paese.
                                                                                                   Chappenin parte. el mar circonda 7 lalpe.
```

Uses of Text Encoding: Research

```
Dates

<date when="1837-04-05">April the 5th, 1837</date>
People

<persName>Joe Vandal</persName>
Places

<placeName xml:id="pal">The Palouse</placeName>
```

Uses of Text Encoding: Research

- Text Encoding is Never Simple:
 - Text encoding is not simple data entry: it is part of research
 - Text encoding is not neutral or objective
 - Text encoding is a strategic representation of the text

Flanders, Julia. "Overview of Descriptive Markup and the TEI."
 Intensive Introduction to TEI, GSLIS, University of Illinois at Urbana-Champaign, 2011.
 http://wwp.northeastern.edu/outreach/seminars/_current/presentations/overview/overview.xml

Research: Comic Book Readership Archive



Research: Comic Book Readership Archive





THE SPIDER'S WEB

c/o MARVEL COMICS GROUP 575 Madison Avenue

New York, New York 10022

MARY WOLFMAN EDITOR MARK GRUENWALD ASSISTANT EDITOR

Dear Mary, Sai, & Jim:

Naturally, the question of the month is: What's going to happen in SPIDER-MAN #200? Whatever it is, it's sure to be a landmark. For the first time in years, I'm totally in the dark about what's going to take place in an anniversary issue.

Rather than try to guess, I'm going to focus on an issue which many people will forget in the rush... SPIDER-MAN #199. First of all, note that it's well-crafted, hardly dull, and enhanced by excellent artwork (those underwater scenes make me wonder if Sal and Jim wouldn't be the perfect team for the new SUB-MARINER book you keep talking about). Yet, at the same time, what really happened this issue? Mysterio may as well have shot Spider-Man with that dart last issue! But there's the catch; because no mysteries were cleared up in Issue #199, because Spider-Man had naught but another frustrating when he found out that the trap he'd endured was all an Illusion), SPIDER-MAN #199 will result in nearly twice as good a story in issue #200: in the great Marvel tradition, you've made the reader empathize with our hero, so that his discouragement at being unable to catch Mysteric becomes the reader's as well. Very subtle, but a big plus; #199 did more than just mark time until #200.

Before I forget, I'd like to compilment John Byrne and Terry Austin on this year's SPIDER-MAN ANNUAL. It was great to see Doctor Octopus back; no longer the nice old guy who courted Aunt May, but once more rotten to the core. It was the best annual for Spider-Man since 1966, and you deserve a lot of praise for it.

Matt Kaufman 303 West Pennsylvania Urbana, IL 61801 reason why this cover looked so good was that there was a good Inker embellishing Keith's pencils, namely Pablo Marcos. Keith's (and Sal's) interior work has been shoddy to say the least, and Jim's inks don't really work all that well with either of these artists. All I can ask is that either you give the book a good inker like Pablo — or maybe Bob McLeod (he really looked good over Keith on the cover of the newest annual) — or finally make John Byrne drop the X-Men so that he can take over this book (he also looked great in the annual).

Unless something phenomenal happens — like a miracle — next issue to make this epic memorable, I can safely day that this epic has been very disappointing. And considering that this book is Marvel's mainstay, I can only neiterate: it's a shame.

Kurt Oisson Leonard, Box 1184 Colby College Waterville, ME 04901

It would appear that we have a bit of a disagreement here. Mr. Kaufman enjoyed SPIDER-MAN \$199. Mr. Olsson loathed it. Matt likes the build-up. Kurt doesn't think there's been enough. And both gentlemen disagree with each other on the quality of issue \$199's art (though they both seem to have liked the art on this year's annual). One issue, two very different opinions. But then, that's what makes horse races... and comicbooks, it would seem.

Dear Marvel

SPIDER-MAN #199 was definitely one of the most exciting comics I have read in a long time. Mysterio has to

Research: Comic Book Readership Archive

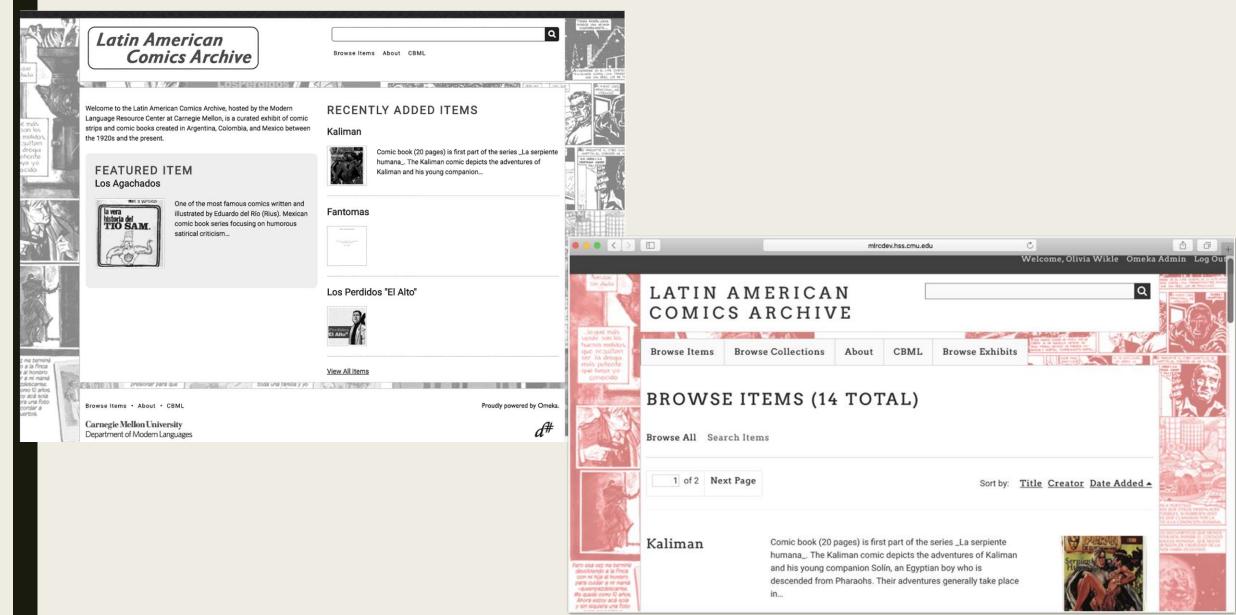
- Why was text encoding helpful?
 - Multiple names (Spider-Man, Spidey, Web Head, Peter Parker, Petey; Mary Jane, MJ; Doctor Octopus, Otto Octavius, Doc Ock)
 - Separating incoming letters from replies and other editorial content
 - Distinguishing Spider-Man, the character, from Spider-Man, the comic book

Research: Comic Book Readership Archive

```
•<div type="group">
•<div type="letter">
•<div type="reply">
•<persName key="spider-man">Spidey's</persName>
•<persName key="mj">M.J.'s</persName>
•<persName key="len_wein">Len Wein</persName>
•<persName key="steve_ditko">Steve Ditko</persName>
•<bibl>
  <title>Spidey</title>
  <biblScope unit="issue">#130</biblScope>,
  <biblScope unit="page">page 23</biblScope>,
  <bis><bis>Scope unit="panel">panel<br/>spanel<br/>3</bis><br/>/biblScope></br/>
 </bibl>
```

```
<div type="letter">
 <opener>
    <salute>Dear <orgName>Marvel</orgName>,</salute>
 </opener>
  With <bibl><biblScope unit="issue">issue #174</biblScope>, <title</p>
        rendition="#uppercase">The Amazing <persName>Spider-Man</persName></title></bibl>
    improved 100%!
 I always did like the <persName>Punisher</persName>, and when
     <persName>Hitman</persName> made his appearance in <persName rendition="#uppercase"</pre>
     >Peter Parker</persName>, I hoped that the two would meet.
 <persName>Len</persName> forgot all about melodrama in this issue and concentrated on
   fast-moving action with just the right amount of plot. It was great.
  Now a few notes to <persName>Len</persName>:
 It's about time that <persName>Pete</persName> and <persName>Mary Jane</persName>
    either got together or split. I'm sick and tired of "<persName>Pete</persName> runs
    off, <persName>MJ</persName> gets mad, <persName>Pete</persName> explains,
     <persName>MJ</persName> accepts, but stays mad." It's boring!
     <persName>MJ</persName> hasn't talked to <persName>Pete</persName> since
       <bibl><bibl>cope unit="issue">#168</biblScope></bibl>. Are we through with
    her?
 Maybe you should introduce a new girl to be <persName>Pete's</persName> new love? Not
    a <persName>Gwen</persName> and not a <persName>Betty</persName> and not a
     <persName>Liz</persName> and not an <persName>MJ</persName>. Somebody totally
   new.
  Do you realize the entire supporting cast has dwindled to nothing. Let's get some new
    blood!
 Final thought: Let's have some real continuity between <title rendition="#uppercase"</p>
     >Marvel Team-Up</title>, <title rendition="#uppercase">Peter Parker</title> and this
    book. Like a three-book cross-over?
  Just keep up the good work <persName>Len</persName>!
 <closer>
    <signed><persName>Tony R. Rose</persName></signed>
   <address>
     <addrLine>Box 14A Dooley Rt.</addrLine>
     <addrLine>Boles, AR 72926</addrLine>
   </address>
 </closer>
</div>
```

Uses of Text Encoding: Teaching



Uses of Text Encoding: Teaching



El Eternauta,

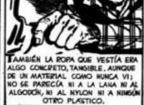
Héctor G. Oesterheld,
 Solano López





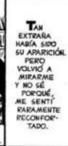


AQUELLAS MANOS DE PIEL AL-GO RUGOSA, CON LAS VENAS NETAMENTE MARCADAS, ERAN BIEN REALES, BIEN DE ESTE MUNDO.













ESTO
OLTIMO LO
DIJO MIRANDO LOS
LIBROS SOBRE LA
MESA, Y LAS
REVISTAG:
NABIA UN
MAGAZINE
DE ACTUALIDAD CON
LA FOTO DE
KRUSHCKEY,
EN LA



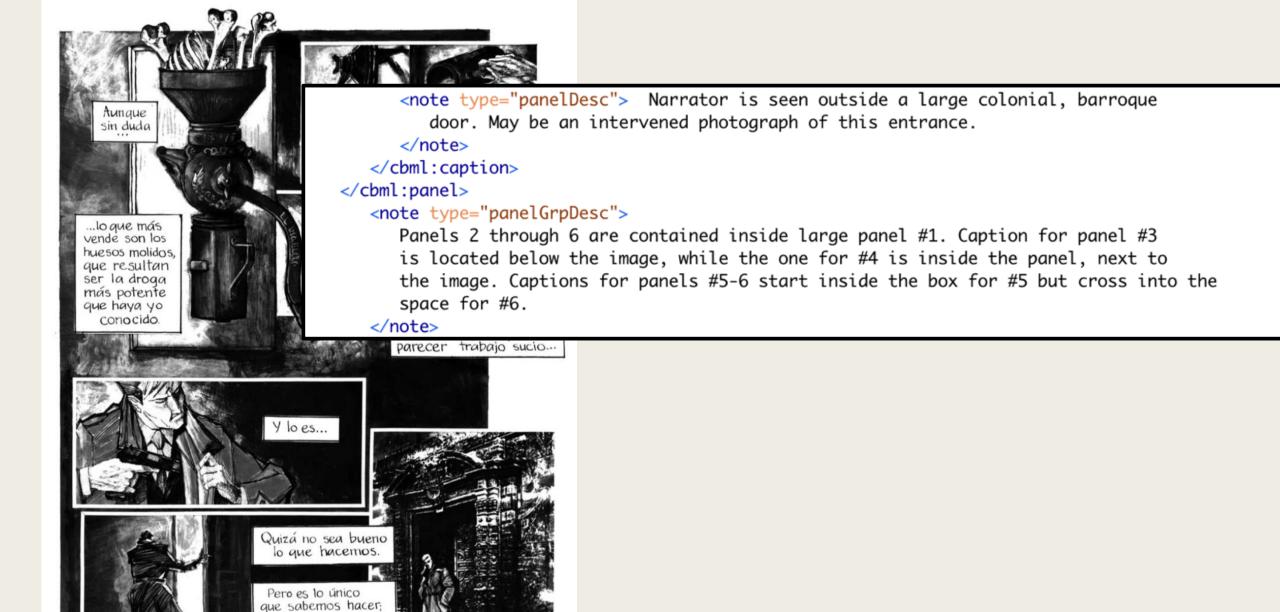
GUIONIGTA DE HISTORIETAS ESTO SÍ QUE ES UNA CAGUA-LIDAD. ENTRE TANTAS OTRAG CAGAS, VENIR A DAR JUSTA-MENTE CON ESTA...

Uses of Text Encoding: Teaching





Operación Bolivar, - Edgar Clement



y lo haremos mientras haya gente que paque..

"... one of the oldest strains of digital humanities, text encoding, is fundamentally an exercise in close reading"

-- Gailey, Amanda. "Teaching Attentive Reading and Motivated Writing Through Digital Editing." CEA Critic 72.2 (2014): 191-9. DOI: 10.1353/cea.2014.0011.

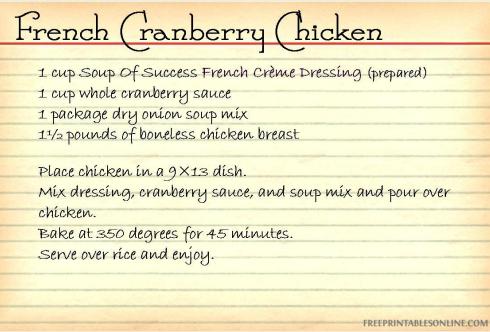
"... the exercise defamiliarizes the act of reading, reveals its continuity with digital text mining, and offers insights that may not solely exist in either realm"

-- Fyfe, Paul. "Digital Pedagogy Unplugged." Digital Humanities Quarterly 5, no. 3 (2011): http://digitalhumanities.org/dhq/vol/5/3/000106/000106.html.

Activity: Creating Well-Formed XML

Design your own meaningful tags (elements and attributes) to describe the content of these documents:





French (ranberry (hicken

- 1 cup Soup Of Success French Crème Dressing (prepared)
- 1 cup whole cranberry sauce
- 1 package dry onion soup mix
- 11/2 pounds of boneless chicken breast

Place chicken in a 9×13 dish.

Míx dressing, cranberry sauce, and soup mix and pour over chicken.

Bake at 350 degrees for 45 minutes.

Serve over rice and enjoy.



XML Validator

Encode your texts here: https://tinyurl.com/y8hskjgf

Check for well-formedness here: https://codebeautify.org/xmlvalidator

Resources

- Women Writers Project: Resources for Teaching and Learning Text Encoding. http://wwp.northeastern.edu/outreach/resources.html
- "A Gentle Introduction to XML." *Text Encoding Initiative: Guidelines for Electronic Text Encoding and Interchange*. http://www.tei-c.org/release/doc/tei-p5-doc/en/html/SG.html
- Walsh, John, and Michelle Dalmau. "Indiana University Text Encoding Workshop Series." http://dcl.slis.indiana.edu/teiworkshop/index.html