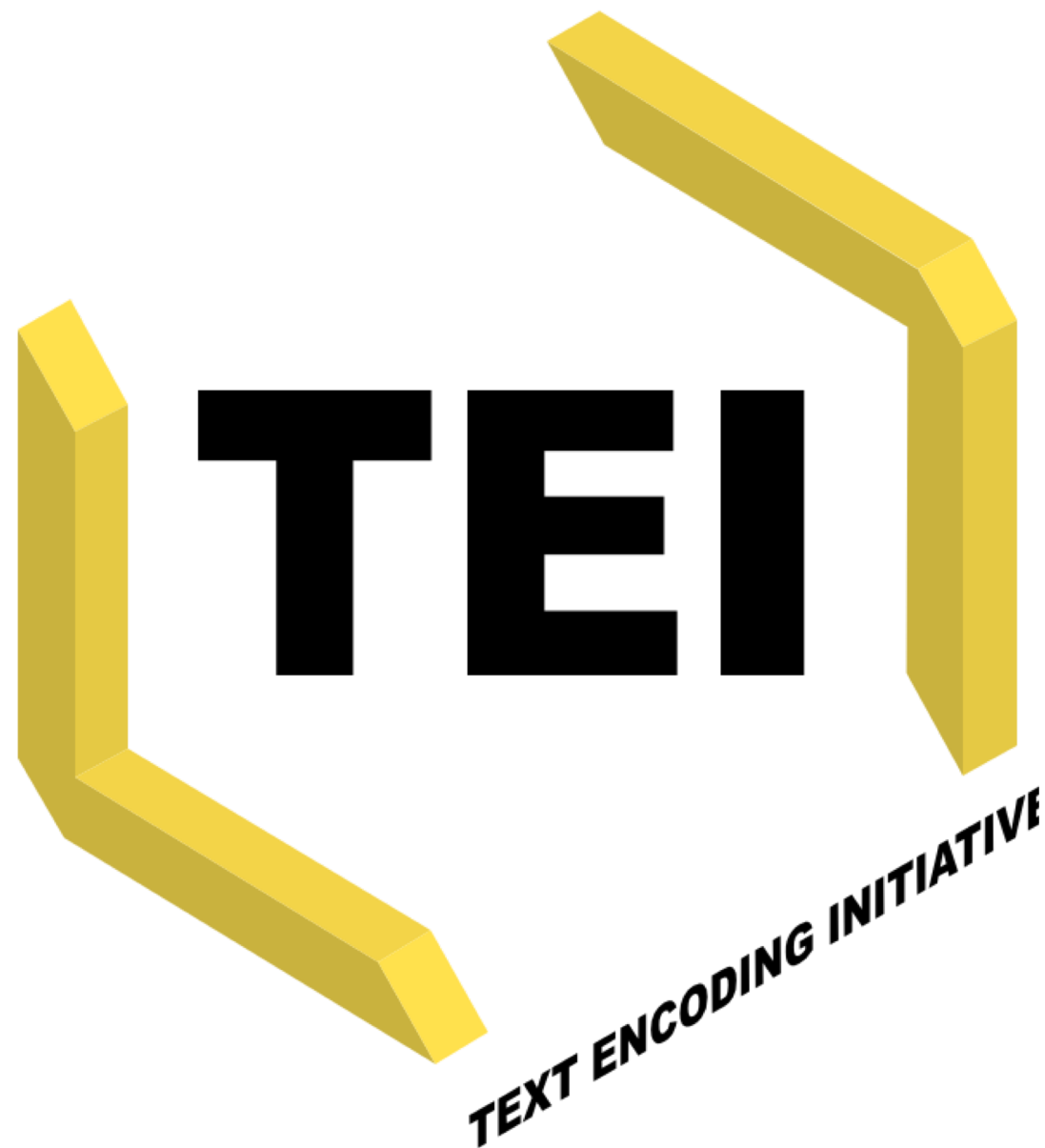


# WHAT IS THE TEI AND WHY SHOULD I CARE?

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Joey Takeda  
September 20<sup>th</sup>, 2018  
UBC DH Pixelating Mixer



# HI!

Joey Takeda, MA Student, Dept. of English Language and Literatures (Science and Technology Studies Program)

Undergrad in English Honours and Gender Studies @ Uvic

Digital Humanities programmer for projects such as *The Map of Early Modern London*, *Linked Early Modern Drama Online*, and *The Endings Project*

Specialize in TEI, XHTML, and Digital Humanities project development

<https://github.com/joeytakeda>

This workshop: <https://github.com/joeytakeda/teiworkshop>





# THIS WORKSHOP

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Brief conceptual introduction to encoding, XML, and TEI

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Examples of projects that use the TEI

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Pointers to further resources on learning about the TEI

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Brief conceptual introduction to encoding, XML, and TEI

Examples of projects that use the TEI

Pointers to further resources on learning about the TEI

Next workshop will focus on tools and resources for creating a TEI project (October 25)



# TEXT ENCODING AND THE TEI

---

**ENCODING, MARKUP, ET CETERA...**

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At its core, textual encoding is a way of identifying and differentiating bits of text from other bits of texts.



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We do this all the time!

- Italics for *emphasis*
- Underlining for titles
- Bold for **extra-emphasis**
- Quotation marks for “outside attribution” or “skepticism”
- All capitals to YELL

# ENCODING, MARKUP, ET CETERA

But these are contextual and local

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E.g. different types of punctuation for levels of quotation



# ENCODING, MARKUP, ET CETERA

But these are contextual and local

E.g. different types of punctuation for levels of quotation

And they are subject to varying interpretations

- E.g. I think these quotation marks denote a term, but maybe the author is just being sarcastic...

# WHY SHOULD WE ENCODE TEXTS?

# WHY SHOULD WE ENCODE TEXTS?

Computer-readable

Flexibility

Interoperability

Convertibility (i.e. from one format to another)

Output  $\neq$  Input

+++

# STOW'S *SURVEY OF LONDON*

## Cornhill VVarde.



The next ward towarde the south, is Cornhill ward, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of Leaden hall, stretching downe west on both the sides by the south end of Finckes lane, on the right hand, and by the north ende of Birchouers lane, on the left part of which lanes, to wit, to the middle of them is of this ward and so down to the Stockes market, and this is the bounds of this Ward. The vpper, or East part of this Ward, and also a part of Lymestrecte ward hath bene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in Lymestrecte ward, yet it appeareth of record, that in the yere 1522. the Rippars of Ric and other places solde their fresh fish in Leaden hall market, vpon Cornhil, but frozen Butchers were not admitted, there to sel flesh

Cornhill ward

# STOW'S *SURVEY OF LONDON*



## Cornhill VVarde.



The next ward towarde the south, is Cornhill warde, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of Leaden hall, stretching downe west on both the sides by the south end of Finckes lane, on the right hand, and by the north ende of Birchouers lane, on the

Cornhill ward

left part of which lanes, to wit, to the middle of them is of this ward and so down to the Stockes market, and this is the bounds of this Ward. The upper, or East part of this Ward, and also a part of Lymestrecte warde hath bene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in Lymestrecte warde, yet it appeareth of record, that in the yere 1522. the Rippars of Ric and other places solde their fresh fish in Leaden hall market, upon Cornhil, but forren Butchers were not admitted, there to sel flesh

# STOW'S *SURVEY OF LONDON*

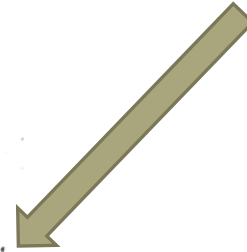


## Cornhill VVarde.



The next ward towarde the south, is Cornhill warde, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of Leaden hall, stretching downe west on both the sides by the south end of Finckes lane, on the right hand, and by the north ende of Birchouers lane, on the left part of which lanes, to wit, to the middle of them is of this ward and so down to the Stockes market, and this is the bounds of this Ward. The vpper, or East part of this Ward, and also a part of Lymestrecte warde hath bene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in Lymestrecte warde, yet it appeareth of record, that in the yere 1522. the Rippers of Ric and other places solde their fresh fish in Leaden hall market, upon Cornhil, but forren Butchers were not admitted, there to sel fleshy

Cornhill ward



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left part of which lanes, to wit, to the middle of them is of this ward and so down to the Stockes market, and this is the bounds of this Ward. The upper, or East part of this Ward, and also a part of Lymestrecte warde hath bene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in Lymestrecte warde, yet it appeareth of record, that in the yere 1522. the Rippers of Ric and other places solde their fresh fish in Leaden hall market, upon Cornhil, but forren Butchers were not admitted, there to sel flesh



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The next ward towarde the south, is Cornhill ward, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of Leaden hall, stretching downe west on both the sides by the south end of Finckes lane, on the right hand, and by the north ende of Birchouers lane, on the

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## Cornhill VVarde.



THE next ward towards the south, is *Cornhill warde*, so called of a corne Cornhill ward market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of *Leaden hall*, stretching downe west on both the sides by the south end of *Finckes lane*, on the right hand, and by the North ende of *Birchouers lane*, on the left part of which lanes, to wit, to the middle of them is of this ward and so down to the *Stockes market*, and this is the bounds of this Ward. The vpper, or East part of this Warde, and also a part of *Lymestreete warde* hath beene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in *Limestreete warde*, yet it appeareth of record, that in the yere 1522. the Rippars of *Rie* and other places solde their fresh fish in *Leaden hall* market, vpon *Cornhil*, but forren Butchers were not admitted, there to sel flesh

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## Cornhill VVarde.



T

He next ward towards the south, is *Cornhill warde*, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of *Leaden hall*, stretching downe west on both the sides by the south end of *Finckes lane*, on the right hand, and by the North ende of *Birchouers lane*, on the

Cornhill ward

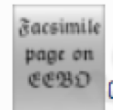
left part of which lanes, to wit, to the middle of them is of this ward and so down to the *Stockes market*, and this is the bounds of this Ward. The vpper, or East part of this Warde, and also a part of *Lymestreete warde* hath beene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in *Lymestreete warde*, yet it appeareth of record, that in the yere 1522. the Rippars of *Rie* and other places solde their fresh fish in *Leaden hall* market, vpon *Cornhil*, but forren Butchers were not admitted, there to sel flesh

L 2

till



## Cornhill VVarde.

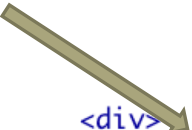


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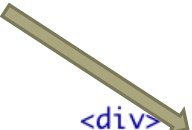
The next ward towards the south, is **Cornhill warde**, so called of a corne market, time out of mind there holden, and is a part of the principall high streete, beginning at the west end of **Leaden hall**, stretching downe west on both the sides by the south end of **Finckes lane**, on the right hand, and by the North ende of **Birchouers lane**, on the

left part of which lanes, to wit, to the middle of them is of this ward and so down to the **Stockes market**, and this is the bounds of this Ward. The vpper, or East part of this Warde, and also a part of **Lymestreete warde** hath bene (as I saide) a market place, especially for Corne, and since for all kinde of victuals, as is partly shewed in **Limestreete warde**, yet it appeareth of record, that in the yere 1522. the Rippars of Rie and other places solde their fresh fish in **Leaden hall** market, vpon **Cornhil**, but forren Butchers were not admitted, there to sel flesh

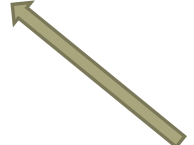
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rendition="#stow\_1598\_CORN1\_R">Corn  
 <lb rend="hidden" type="hyphenInWord"/>hill</hi> warde</ref>,<label place="margin-right"><ref target="mol:CORN1">Cornhill  
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 <lb/>weft end of <ref target="mol:LEAD1">Leaden hall</ref>, ftretching downe  
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 <lb/><hi rendition="#stow\_1598\_CORN1\_R"><ref target="mol:FINC1">Finckes lane</ref>,</hi> on the right hand, and by the  
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 <lb/>left part of which lanes, to wit, to the middle of them is of this  
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 <lb/>of this Ward. The vpper, or Eaft part of this Warde, and al  
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 <lb/>market place, efpecially for Corne, and fince for all kinde  
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 <lb/><ref rendition="#stow\_1598\_CORN1\_R" target="mol:CORN2">Cornhil</ref>, but forren Butchers were not  
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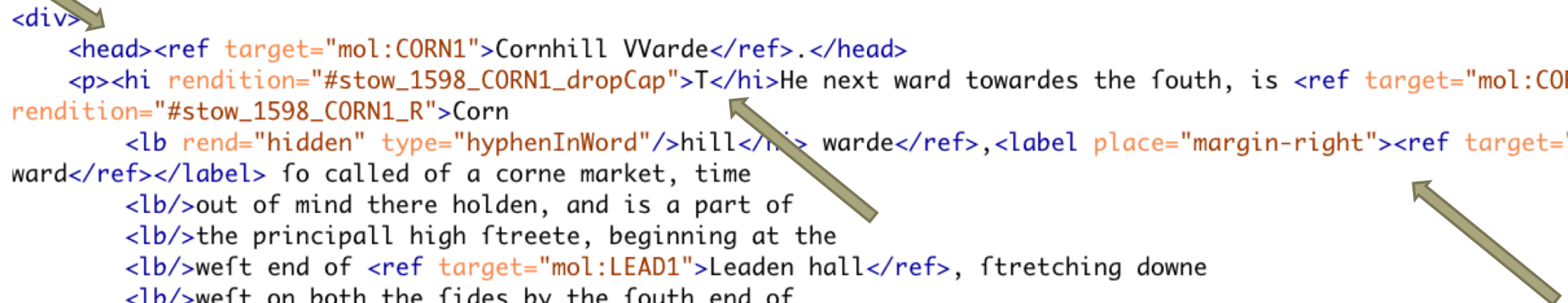
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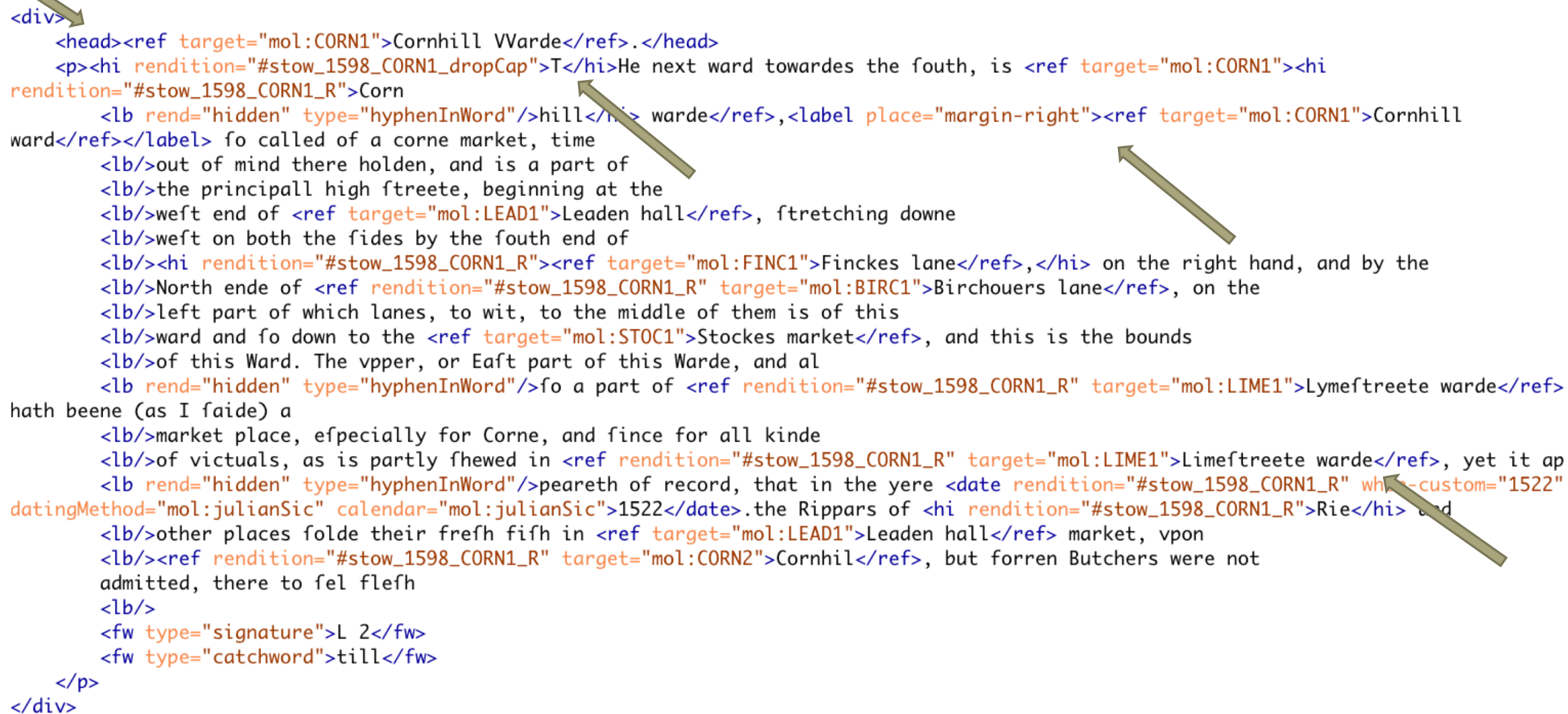
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  <lb/>other places folde their frefh fifh in <ref target="mol:LEAD1">Leaden hall</ref> market, vpon
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  <lb rend="hidden" type="hyphenInWord"/>fo a part of <ref rendition="#stow_1598_CORN1_R" target="mol:LIME1">Lymeftreete warde</ref>
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  <lb/>market place, efpecially for Corne, and fince for all kinde
  <lb/>of victuals, as is partly fhewed in <ref rendition="#stow_1598_CORN1_R" target="mol:LIME1">Limeftreete warde</ref>, yet it ap
  <lb rend="hidden" type="hyphenInWord"/>peareth of record, that in the yere <date rendition="#stow_1598_CORN1_R" what-custom="1522"
datingMethod="mol:julianSic" calendar="mol:julianSic">1522</date>.the Rippars of <hi rendition="#stow_1598_CORN1_R">Rie</hi> and
  <lb/>other places folde their frefh fifh in <ref target="mol:LEAD1">Leaden hall</ref> market, vpon
  <lb/><ref rendition="#stow_1598_CORN1_R" target="mol:CORN2">Cornhil</ref>, but forren Butchers were not
  admitted, there to fel flefh
  <lb/>
  <fw type="signature">L 2</fw>
  <fw type="catchword">till</fw>
</p>
</div>
```

```
<div>
  <head><ref target="mol:CORN1">Cornhill VVarde</ref>.</head>
  <p><hi rendition="#stow_1598_CORN1_dropCap">T</hi>He next ward towardses the fouth, is <ref target="mol:CORN1"><hi
rendition="#stow_1598_CORN1_R">Corn
  <lb rend="hidden" type="hyphenInWord"/>hill</hi> warde</ref>,<label place="margin-right"><ref target="mol:CORN1">Cornhill
ward</ref></label> fo called of a corne market, time
  <lb/>out of mind there holden, and is a part of
  <lb/>the principall high ftreete, beginning at the
  <lb/>weft end of <ref target="mol:LEAD1">Leaden hall</ref>, ftretching downe
  <lb/>weft on both the fides by the fouth end of
  <lb/><hi rendition="#stow_1598_CORN1_R"><ref target="mol:FINC1">Finckes lane</ref>,</hi> on the right hand, and by the
  <lb/>North end of <ref rendition="#stow_1598_CORN1_R" target="mol:BIRC1">Birchouers lane</ref>, on the
  <lb/>left part of which lanes, to wit, to the middle of them is of this
  <lb/>ward and fo down to the <ref target="mol:STOC1">Stockes market</ref>, and this is the bounds
  <lb/>of this Ward. The vpper, or Eaft part of this Warde, and al
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THE TEI



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A set of guidelines for encoding text



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- **Metadata:** various classification schemes, provenance, manuscript description, etc
- ++++++

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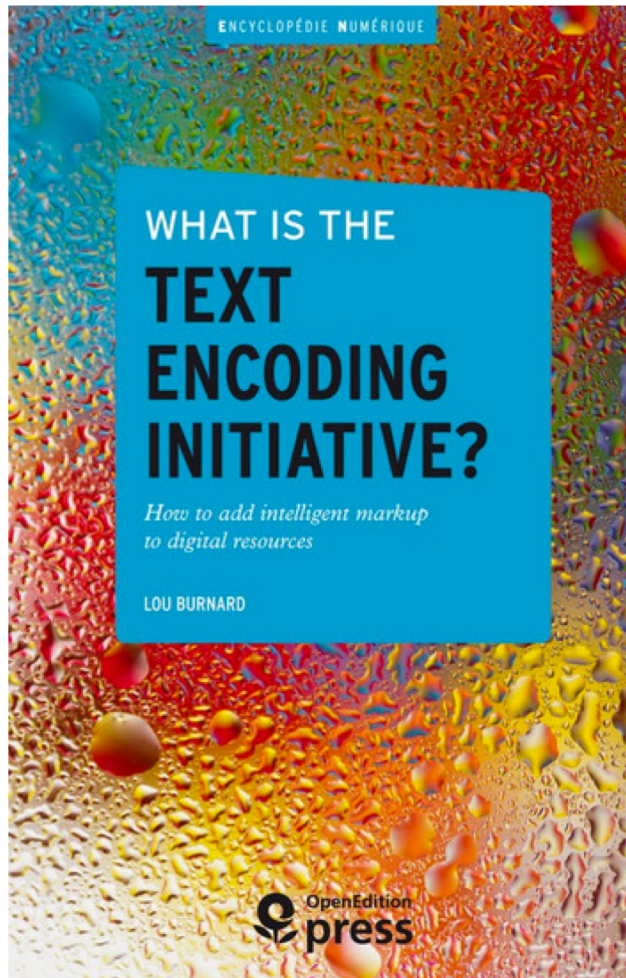
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The Text Encoding Initiative (originally called the Guidelines for Text Encoding and Interchange)

Started in the late 1980s in response to the boom in “humanities computing”

Wanted to provide a framework and a set of principles for encoding texts that could be widely adopted



Within the noisy market place of the *Digital Humanities*, the TEI is a kind of senior member, an annoying parental figure for some, a benevolent one for others, something just too old-fashioned even to be considered for others. Yet, over the last decade, it has become increasingly clear that the TEI is part of what makes the digital humanities happen.

(Burnard, “Conclusion”, para. 1)

# WHAT THE TEI IS **NOT**



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- Caveat: There are many, many tools for transforming TEI into other formats (Word documents, PDFs, and, of course, websites)



**XML**

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Anyone can conceive of an XML dialect (e.g. it is *extensible*)

# XML

Think of the hierarchy of the book:

# XML

Think of the hierarchy of the book:

Book



# XML

Think of the hierarchy of the book:

Book

- Chapters

# XML

Think of the hierarchy of the book:

Book

- Chapters
  - Sections

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Think of the hierarchy of the book:

## Book

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  - Sections
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Think of the hierarchy of the book:

## Book

- Chapters
  - Sections
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      - Sentences
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          - Letters



**XML**

# XML

<book>

</book>



# XML

```
<book>  
  <chapter>
```

```
    </chapter>  
</book>
```

# XML

```
<book>  
  <chapter>  
    <section type="subsection">
```

```
      </section>  
    </chapter>  
</book>
```

# XML

```
<book>  
  <chapter>  
    <section type="subsection">  
      <paragraph>  
  
        </paragraph>  
      </section>  
    </chapter>  
</book>
```

# XML

```
<book>
  <chapter>
    <section type="subsection">
      <paragraph>
        <sentence>

                                </sentence>
      </paragraph>
    </section>
  </chapter>
</book>
```

# XML

```
<book>
  <chapter>
    <section type="subsection">
      <paragraph>
        <sentence>
          <word>

                                </word>
          </sentence>
        </paragraph>
      </section>
    </chapter>
  </book>
```

# XML

```
<book>
  <chapter>
    <section type="subsection">
      <paragraph>
        <sentence>
          <word>
            <letter></letter>
          </word>
        </sentence>
      </paragraph>
    </section>
  </chapter>
</book>
```



# **XML EXPLAINED**

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The two pointy brackets is called an **element**

- E.g. <book> would be called the book element



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All elements have **start** and **end tags**

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Elements can also have **attributes** and **each attribute must have a value**

- E.g. `<book type= "primary">` has a **type attribute with the value of primary**
- (Think of attributes as you would in everyday life; people don't have "height" or "age" without a value)



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- I.e this bit of XML

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<book>
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```
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```

```
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Can be described as “chapter is a child of book” OR “book is a parent of chapter”

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```

```
  <chapter></chapter>
```

```
</book>
```

Can be described as “chapter is a child of book” OR “book is a parent of chapter”

## There is **always** a **root** element

- That is, there is always one element that encloses everything

# THE PROBLEM

I just wrote that XML to describe a book

How else could it be written?



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I just wrote that XML to describe a book

How else could it be written?

```
<book>
  <ch>
    <para>
      <w>
        <c></c>
      </w>
    </para>
  </ch>
</book>
```



# THE TEI SOLUTION

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All texts must be called <text>

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A <teiHeader> that describes both the *file* and the *primary source* that you are transcribing (if applicable)

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Root <TEI> element

A <teiHeader> that describes both the *file* and the *primary source* that you are transcribing (if applicable)

A <text> that contains the text of the document

- Within text, you can have a <front>, <body>, or <back>

# TEI IS FOR DATA AND METADATA

<TEI>

<teiHeader>

</teiHeader>

<text>

</text>

</TEI>

metadata

data

# BASIC TEI FILE

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <TEI xmlns="http://www.tei-c.org/ns/1.0">
3   <teiHeader>
4     <fileDesc>
5       <titleStmt>
6         <title>The Most Basic TEI File</title>
7       </titleStmt>
8       <publicationStmt>
9         <p>Not for publication, really.</p>
10      </publicationStmt>
11      <sourceDesc>
12        <p>No source, born digitally for demonstrative purposes.</p>
13      </sourceDesc>
14    </fileDesc>
15  </teiHeader>
16  <text>
17    <body>
18      <p>Hello, world!</p>
19    </body>
20  </text>
21 </TEI>
```



**TEI**

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Note that the TEI is huge (569 elements)

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No one uses the entirety of the TEI tagset



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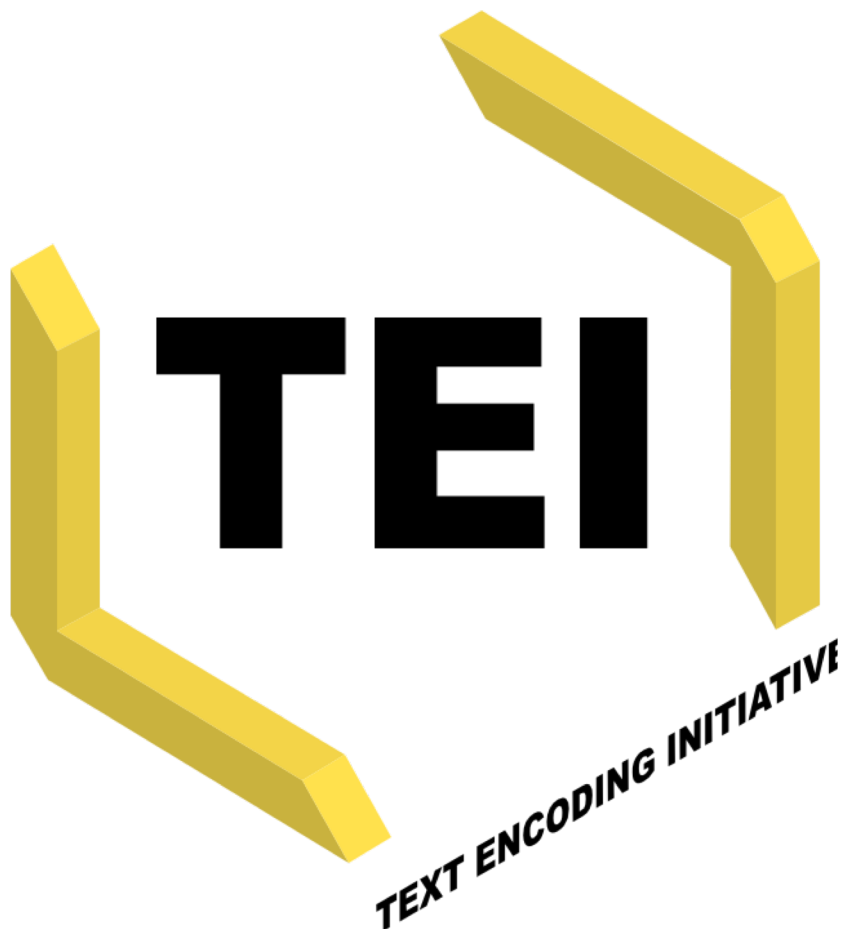
No one uses the entirety of the TEI tagset

Individual projects *customize* the TEI for their own needs, usually using a small subset of the overall tagset (more on this in Workshop #2 in October!)

- E.g. Drama projects will use the drama tagset (<sp> for speech, <speaker> for speaker, et cetera) and discard the linguistic/dictionary tagset (<entry> for dictionary entries, <m> for morpheme, etc).

**THAT WAS A LOT OF INFORMATION IN A VERY  
SHORT TIME**

Any questions?



## SAMPLE TEI PROJECTS

---

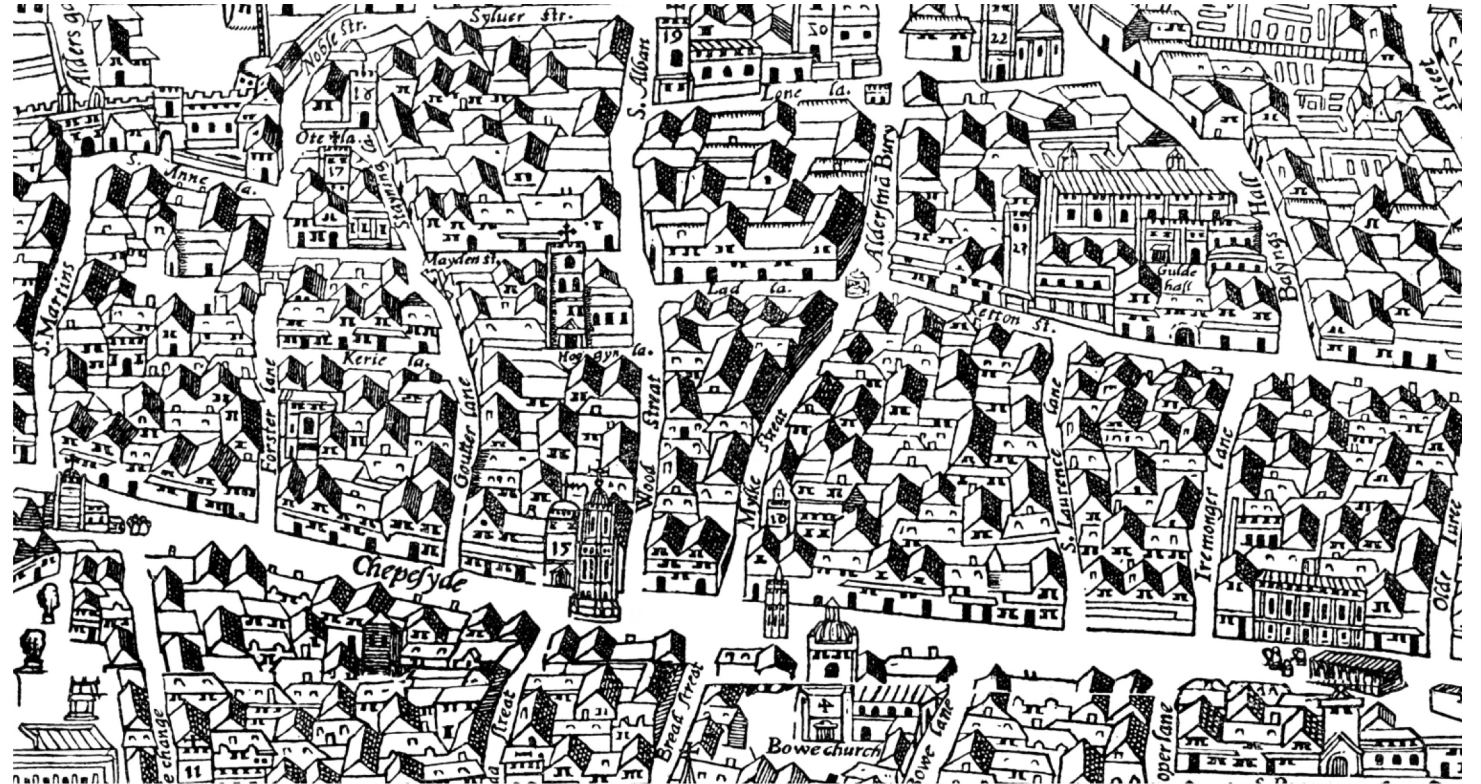
# THE SHELLEY- GODWIN ARCHIVE

that vanishes among the reewless gales. —  
far, far above, piercing the infinite sky  
Mont Blanc appears, still, snowy & serene,  
to subject mountains their unearthly forms  
like sound it — ice & rock — broad chambers  
of frozen waves, unfathomable deeps  
blue as the overhanging Heaven, that spread  
and wind among the accumulated steep,  
fast descents, peopled by the storms alone  
save when the eagle brings some hunter's horn  
and the wolf watches her — how hideously  
the rocks are heaped around, rude base & high  
chastly & scarred & given — is this the same  
when the old Earthquake domes thought to  
ruin? were these their toys? or did a sea <sup>young</sup>  
fire envelope once this silent snow?  
none can reply — all seems eternal now.  
This wilderness has a mysterious tongue  
which teaches awful doubt, or faith so mild,  
so simple, so serene that man may be  
such a faith with Nature reconciled.

My own, my human mind — which has  
now renders & receives fast influence  
Holme an unforeseeing interchange  
With the clear universe of things —  
A legion of swift thought, whose waves  
Now float above the darkness, & now  
Near the still cave of the witch Po  
Seeking among the shadows that  
Ghost of the things that are, some form  
Some spectre, some faint image; till  
From which they fled recalls them — the

Some say that gleams of a remoter  
Visit the soul in sleep — that death  
And that it shapes the busy thoughts  
Of those who wake & live. I look on  
Has some unknown omnipotence uny  
The veil of life & death? or do  
In dream, & does the mightiest too  
Spread far around, & inaccessible  
Its circles? — for the very spirit  
Drown like a homely cloud from steep

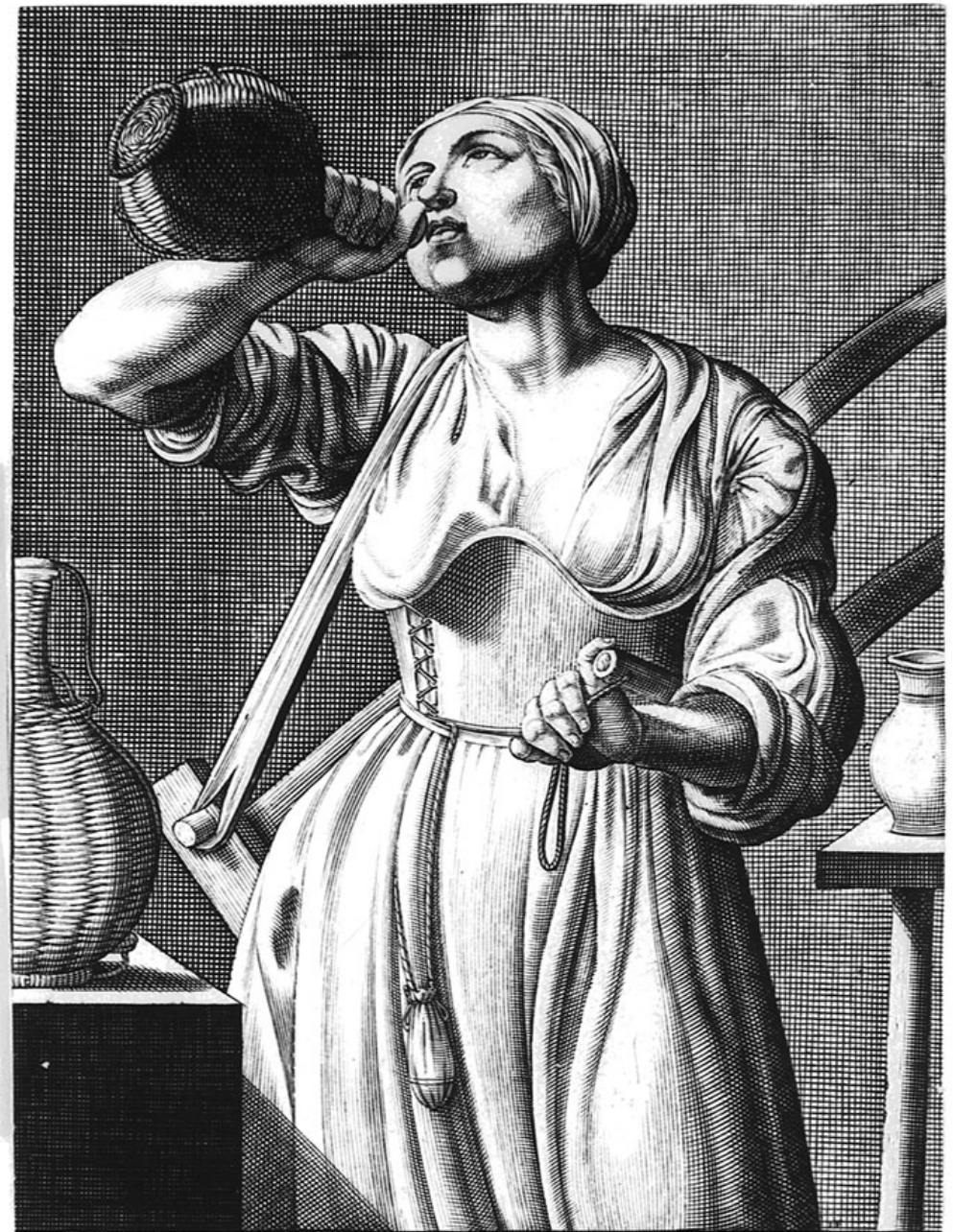






# LE MARIAGE

Collection HENNIN tome 27.



*J'ay les crochets de mon mary, | Sil-en veult faire le marri,  
Son baston, ses larges bouteilles, | Je luy froteray les oreilles.*

# HE DO THE POLICE IN DIFFERENT VOICES



# RESOURCES

The TEI's website: <https://tei-c.org>

TEI by Example: <http://teibyexample.org/>

Lou Burnard, *What is the Text Encoding Initiative?*:  
<https://books.openedition.org/oep/679?lang=en>

Teach Yourself TEI: <http://www.tei-c.org/support/learn/teach-yourself-tei/>

DHSI @ Uvic: <http://www.dhsi.org/courses.php>



# NEXT WORKSHOP

October 20, 2018

Focus will be on tools for working with and deploying TEI

Please bring a text (doesn't have to be a primary source text—it can be a journal article or an essay!)

# THANKS!

UBC Libraries, esp. Allan Cho for the invitation!

Martin Holmes, Janelle Jenstad, The Endings Project, and Uvic's Humanities Media and Computing Center