Expressing Complex Associations in Medieval Historical Documents: The Henry III Fine Rolls Project

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The project

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  - Centre for Computing in the Humanities
Facsimiles

Images for C 60/12

m.9
Image of roll C 60/12

Membrane 9

Image of membrane 9

4 Henry III (22 October 1219-27 October 1220)

Roll of fines from the fourth year of King Henry.

27 Oct. Westminster. Lancaster. To the sheriff of Lancaster. The king has received to Pendlebury for one corvée of land with appurtenances in Pendlebury and for the foland with appurtenances in Shoresworth, of which Elias of Pendlebury, his father, who he says, seised as of his right and inheritance on the day he died. Order that, having rendering his relief of these lands, he is to cause him to have full seisin of them with etc.
## Index by place: A

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<th>Place</th>
<th>Notes</th>
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<td>Acaster (Acastr') [unidentified, Yorkshire]</td>
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<td>Acton' [unidentified]</td>
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<td>Albo Monasterio [unidentified]</td>
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<td>Aldeleigh' [unidentified]</td>
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<td>Aldercombe (Aurecumb') [in Kilkhampton, Cornwall]</td>
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</tr>
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<td>Aldermansbury, St. Mary (Aldermanschip') [London]</td>
<td>3/294</td>
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</tbody>
</table>
TEI mark-up model

Each Roll → XML document that includes

- physical structure
  - e.g. membranes and marginalia

- structure of the calendar and its content
  - e.g. place, date, body of each entry, witness list

- semantic content
  - e.g. names and identification of individuals and locations, references to subjects
The Fine Rolls socio-historical value

3,439 men
501 women
around 4,062 locations
1,157 subjects
Authority lists and associations

TEI doc

…

<persName>
Oliver Avenel
</persName>

…

Person
Odo of Wanstraw

Person
Oliver Avenel

isWifeOf

Person
Agnes Avanel

isDaughterOf
The Mark-up populates the Ontology

Transposition of:
- element content
- attributes
- nesting
- co-occurrence

TEI documents → XSLT scripts → Ontology

Additional resources

Editing and Tuning of model and data
Document CFR 1218-9 no.321

refersTo

Woman Margaret de Say

isWidow

Document CFR 1219-20 no.19

refersTo

Relationship

isHusband

Man Robert de Mortimer
Ad hoc properties
Example of toponymic (surname)

- Lawshall (Lansell’) [Suffolk]
- Maszelina of Lawshall
John and his ancestors had pasture of the lawn of Kellewith for the custody of the aforesaid wood. [...]

**Subject Index**

Lawns
- pasture of, 6/173

**TEI XML: Text**

```
<rs type="subject" key="lawnpast"/>
```

```
<standard_name rdf:datatype="&xsd;string">pasture of</standard_name>
<sorting_name rdf:datatype="&xsd;string">pasture of</sorting_name>
<identifier rdf:datatype="&xsd;string">lawnpast</identifier>
<ciodc:P67B.is_referred_to_by rdf:resource="# roll_016_it173_005"/>
<brskos:related rdf:resource="#kellewith_lawn"/>
<brskos:broader rdf:resource="#lawns"/>
```

**RDF/XML: Ontology**
### Protégé-OWL
Ontology editor

![Protégé-OWL interface](image)

**Class Editor:**
- **Class:** Man
- **Properties:**
  - `rdfs:comment`
  - `rdfs:label`:
    - Homme (fr)
    - Man (en)

**Superclasses:**
- Person

**Properties and Restrictions:**
- is_son (multiple Mother_Son or Father_Son)
- is_uncle (multiple Uncle_Nephew or Uncle_Niece)
- is_widower (multiple Widower)
- foaf:gender (multiple string) (hasValue "Male")
- biography (multiple string)
- cidocP118_participated_in (multiple Factoid)
- cidocP678_ie_referred_to_by (multiple cidoc:E73.Information_Object)
- comes_from (multiple cidoc:E53.Place)
- dcterms:bibliographicCitation (multiple string)
Merging instances

Performing queries
Ontology

Export into RDF/XML doc

Intermediate XML docs

XSLT scripts

Dynamic Web Indexes

CSS & Javascript

Current Web Delivery

XSLT scripts
Christiana, widow of Henry Luvel
How can the mark-up benefit from the Ontology?
Distribution of Relationship types (1216-1224)
Resources

- TEI  
  [http://www.tei-c.org](http://www.tei-c.org)
- Protégé-OWL  
- Jambalaya  
  University of Victoria, BC, Canada
- xMod  
  King’s College London
- Cocoon  

Thanks

- Paul Vetch
- Zaneta Au
- Harold Short
- John Bradley
- Conal Tuohy