



Named Entities

Encoding Names, Persons, Places and Dates







Content

- Names. Places
 ↓ (22-28)
- Dates \((29-32)

TEI NAMES. PERSONS

Identifying what are now often referred to as *named entities* from the rest of a sea of words is just as important a task for today's computational linguist building a language understanding system, or today's digital historian tracing social networks within a corpus of 18th century correspondence

- Lou Burnard (2014), What is the Text Encoding Initiative?, Marseille: OpenEdition Press.

Persons, Places, Dates

"I was born in the year 1632, in the city of York, of a good family, though not of that country, my father being a foreigner of Bremen, who settled first at Hull. He got a good estate by merchandise, and leaving off his trade, lived afterwards at York, from whence he had married my mother, whose relations were named Robinson, a very good family in that country, and from whom I was called Robinson Kreutznaer"

- Daniel Defoe, The Life and Adventures of Robinson Crusoe, 1719

Persons, Places, Dates

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Referring string

"I was born in the year 1632, in the city of York, of a good family, though not of that country, my father being a foreigner of Bremen, who settled first at Hull. He got a good estate by merchandise, and leaving off his trade, lived afterwards at York, from whence he had married my mother, whose relations were named Robinson, a very good family in that country, and from whom I was called Robinson Kreutznaer"

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Names in TEI

The TEI provides several ways of marking up names and nominal expressions.

Core module

- <rs> contains a string which refers to a person or place: "my mother", "he".
- <name> contains a proper noun: "Robinson Kreutznaer", "Bremen".
- @type differentiates persons and places.

More precise (extended module)

<persName>, <placeName>, <orgName>, <surname>,<forename>.

Encoding of names using the element name

I was born in the year 1632, in the city of <name>York</name>, of a good family, though not of that country, my father being a foreigner of <name>Bremen</name>, who settled first at <name>Hull</name>. He got a good estate by merchandise, and leaving off his trade, lived afterwards at <name>York</name>, from whence he had married my mother, whose relations were named Robinson, a very good family in that country, and from whom I was called <name>Robinson
Kreutznaer</name>

Add the attribute otnames

I was born in the year 1632, in the city of <name type="place">York</name>, of a good family, though not of that country, my father being a foreigner of <name type="place">Bremen</name>, who settled first at <name type="place">Hull</name>. He got a good estate by merchandise, and leaving off his trade, lived afterwards at <name type="place">York</name>, from whence he had married my mother, whose relations were named Robinson, a very good family in that country, and from whom I was called <name type="person">Robinson Kreutznaer</name>

More precise tagging: namesdates module

Components of personal names

- <forename>, a forename or given name.
- <surname>, a family name.
- <roleName>, role or position in society (President, Queen).
- <addName>, nickname, pseudonym, alias.
- <nameLink>, connecting phrase or link (de, of, van, von).

```
<persName>
  <forename>Marie-Henri</forename>
    <surname>Beyle</surname>
    <addName type="pseudonym">Stendhal</addName>
  </persName>
```

Signs in the text vs. the thing signs refer to

Signifiant (signifier) vs. Signifié (signified)

"[...] and from whom I was called Robinson Kreutznaer; but, by the usual corruption of words in England, we are now called —nay we call ourselves and write our name— Crusoe; and so my companions always called me."

Robinson Crusoe

TEI distintion: <persName> vs. <person>

Encoding of references

I was called <persName>Robinson Kreutznaer </persName>; but, by the usual corruption of words in <placeName>England</placeName>, we are now called -nay we call ourselves and write our name- <persName>Crusoe</persName>

Encoding of referenced entities

Reason for encoding entities

- To standardise references to the same thing: "Robinson Kreutznaer", "Crusoe", "castaway".
- To facilitate a more detailed encoding of source documents (historical materials).
- To represent implicit data in a uniform way.
- To enable fine-grained searching of data-centric projects:
 - to set references to authority files and gazeteers (INSI, GeoNames, VIAF);
 - biographical dictionaries;
 - geographical dictionaries;
 - extracted indices.

Organising named entities

Usually stored in the <teiHeader>

```
<teiHeader>
         <fileDesc>...</fileDesc>
         c>
            <particDesc>
               <listPerson>
                  <person>...</person>
 6
                  <person>...</person>
               </listPerson>
            </particDesc>
            <settingDesc>
               <listPlace>
11
                  <place>...</place>
12
               </listPlace>
13
            </settingDesc>
14
         </profileDesc>
15
16 </teiHeader>
```

Create a separate XML file using < listPerson > entries.

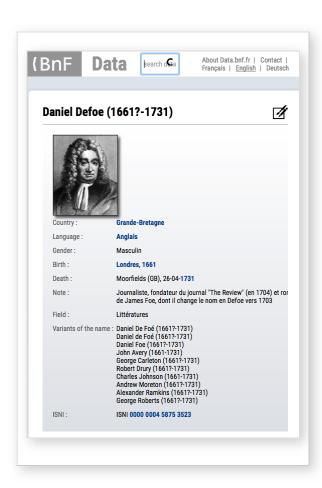
Linking the association with @xml:id ← @ref

```
1 c>
        <particDesc>
           <listPerson>
              <person xml:id="RC">
                 <persName>
                    <forename>Robinson</forename>
                    <surname type="corrupted">Crusoe</surname>
                    <surname type="birth">Kreutznaer</surname>
                 </persName>
                 <birth when="1632">1632</pirth>
10
              </person>
12
           </listPerson>
        </particDesc>
13
    </profileDesc>
14
```

and from whom I was called <persName ref="#RC">Robinson
Kreutznaer</persName>; but, by the usual corruption of words in England,
we are now called -nay we call ourselves and write our name- <persName
ref="#RC">Crusoe</persName>; and so my companions always called me.

Attribute @ref as pointing mechanism

Authority files: catalogs of names



- VIAF: Virtual International Authority
- ISNI: International Standard Name Identifier (ISO Standard)
- Most national libraries:
 Bibliothèque nationale de France;
 Deutsche Nationalbibliothek
- Perseus Digital Library: Classic authors

(other way of) Referencing authority files

Identifier in the <idno> element

more info for person?

```
<birth>, <death>, <event>, <langKnowledge>, <faith>,
  <nationality>, <sex>, <age>, <occupation>, <note>, ...
```

TEI PLACES

TEI distintion: <placeName> vs. <place>

Encoding of references

```
I was born in the year 1632, in the city of <placeName>York</placeName>, of a good family, though not of that <rs>country</rs>
```

Encoding of referenced entities

```
ofileDesc>
        <particDesc>
                <listPerson>...</listPerson>
        </particDesc>
        <settingDesc>
                <listPlace>
                        <place xml:id="york">
                                <placeName>York</placeName>
                                <location>
                                        <!--lat, long-->
                                         <geo>53.95767,-1.082304</geo>
                                </location>
                                <idno type="GeoNames">2633352</idno>
                        </place>
                </listPlace>
        </settingDesc>
</profileDesc>
```



En tibi, formofæ fub forma Europa puellæ Viuida fæcundos pandit vt illa finus. MERIDIES. Ridens Italiam dextra Cimbros finistra Obtinet, Hispanum fronte gerit folum.

Pectore habet Gallos, Germanos corpore gestat Ac pedíbus Graios, Sauromatas fouet,

3.3

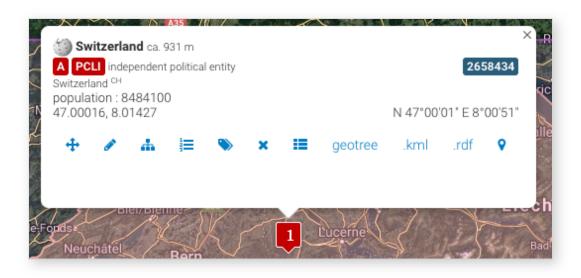
Components of place names

- <bloc> geo-political unit containing two or more nation states: Europe.
- <country> geo-political unite: Italy.
- <region> administrative unite: Lazio.
- <settelment> name of a settlement: Rome.
- <district> subdivision of a settlement: Trastevere.

Components of place names

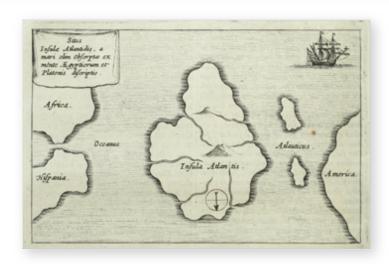
- <location>
 - geographical coordinates
 - < <geo>
 - place name components
 - an address
 - <address>

Gazetteers: catalogs of places



- GeoNames
- Pleiades (ancient places)
- Peripleo (hub of gazetteers)
- European Comision (batch geocoding)
- Geolocation via gazetteers APIs

Fictional places



TEI DATES

Core module: 3.5.4 Dates and Times

- <date> a date in any format
- <time> a phrase defining a time of day in any format

I was born in the year <date when="1632">1632">1632</date>, in the city of <placeName ref="#york">York</placeName>, of a good family, though no t of that country

Attributes for date

To normalize elements that contain dates, times, etc. in standard form (jjjj-mm-dd):

- @when value of the date or time.
- @notBefore the earliest possible date.
- @notAfter the latest possible date.
- @from indicates the starting point of a period.
- @to indicates the ending point of a period.

when a useful way of normalizing or disambiguating

```
<birth when="1788-02-22">22 February 1788</birth>
<birth when="1788-02-22">22 de febrero de 1788</birth>
<birth when="1788-02-22">22 février 1788</birth>
<birth when="1788-02-22">22/02/1788</birth>
```

References

- A Gentle Introduction to XML, Guidelines for Electronic Text Encoding and Interchange, TEI P5: Version 3.5.0.
- digital.humanities @ Oxford, TEI @ Oxford Teaching Pages.
- Lou Burnard (2014), What is the Text Encoding Initiative? How to add intelligent markup to digital resources, Marseille: OpenEdition Press.
- Christof Schöch (2014), Digitale Textedition mit TEI, DARIAH TEI-Tutorial.
- Martina Scholger (2017), Names, dates, people and places.

José Luis Losada Palenzuela, Named Entities. Encoding Names, Persons, Places and Dates, http://editio.github.io/presentations/named-entities.html, 2019.

