



Encoding, Analysis and Visualization of Demotic Accounts from the Temple of Dime

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Encoding, Analysis and Visualization of Demotic Accounts from the Temple of Dime

Nathalie Prévôt (Ausonius, CNRS - Université Bordeaux Montaigne)



Project Detail

The aim of the project DimeData is to renew our knowledge of the economic life of Egyptian temples under the provincial Roman administration through the study of the archives of the temple of Soknopaios in Dime, alias Soknopaiou Nesi, in the Fayyum. DimeData will publish online the demotic papyri recording the daily expenses of the temple of Dime. This will make available more than 40 long rolls still unpublished, kept mainly in the collections of Berlin, Vienna, Paris and London, for sharing with the already existing digital platforms.

Project Directors :

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- Martin Andreas Stadler,
Julius-Maximilians-Universität Würzburg

(ANR-17-FRAL-0004-01 / 02-DFG 389429869)

Semi Lemmatization

Tokenization

Word segmentation

```
<entry id="d640">
<form><orth>irp</orth></form>
<gramrp><term>substantive/substantive_masc</term></gramrp>
<sense>
<cit type="translation" xml:lang="de">
<quote>Wein; Wein(steuern); Weinlieferung</quote>
</cit>
<cit type="bibl">Erichsen, Glossar 89</bibl></sense>
</entry>
```

7

7

4

IN

```
<measure commodity="vin" unit="count" quantity="2">
<w lemmaRef="#d640">irp</w>
<num type="cardinal">2</num>
</measure>
```

7

IN

```
<lb n="5"/>
<date when-custom="9">sw-9</date>
<measure
    commodity="pain"
    unit="count"
    quantity="16">
    <w lemmaRef="#snsn">snsn</w> 16
</measure>
<space dim="horizontal"/>
<measure
    commodity="currency"
    unit="bole"
    quantity="12">db'.t 12
</measure>
```

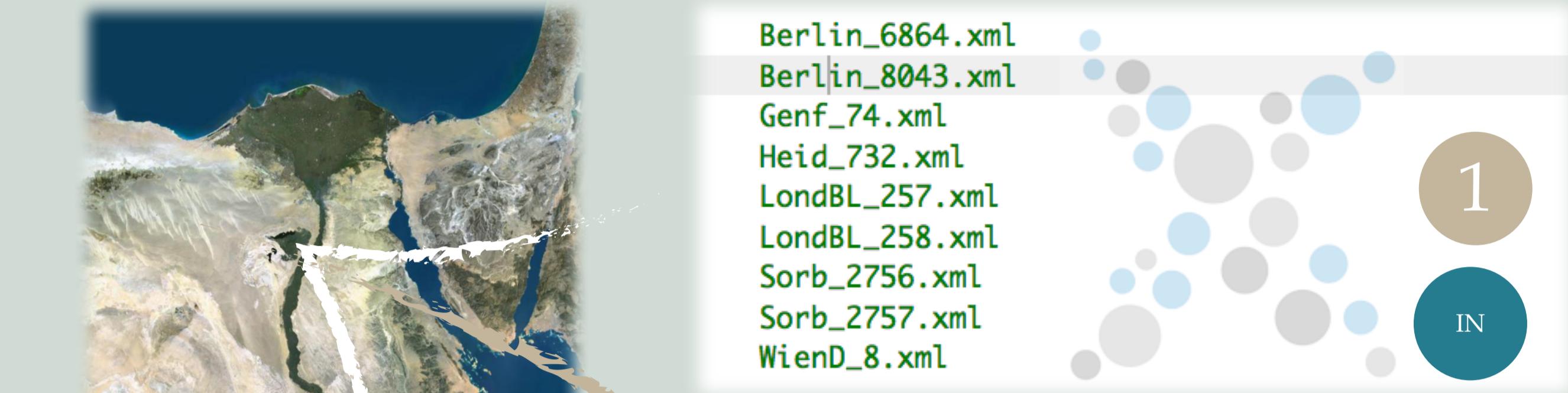


```
<person id="DD_Marres1" sex="1">
<persName>
    <name xml:lang="egy-Egyd" ref="http://www.trismegistos.org/name/443">M3'.t-R</name>
    <name xml:lang="fr">Marres</name>
    <name xml:lang="en">Marres</name>
</persName>
<rs type="person" ref="#DD_Satabous1">
    <persName>
        <name supplied="lost">Htbs</name>
    </persName>
    <rs type="filiationMark">s</rs>
    <rs type="person" ref="#DD_Marres1">
        <persName><name M3'.t-R</name></persName>
    </rs>
```

4

IN

5



```
declare function local:quantity($elem as node(), $code-product as xs:string?) as element(div)*
{
    let $total-product :=
        for $ref in $elem//tei:w[@lemmaRef=concat("#",$code-product)]
        let $count := $ref/ancestor::tei:measure[@unit="count"])[1]
        return
        if ($count/>0) then (
            <quant>{data($count)/$quantity}</quant>
        ) else (
            <quant>{data($count)}</quant>
        )
    let $quant:= sum($total-product/$count)
    return
    <div class="col-md-12">
        <div class="col-md-9">
            <a href="#{$code-product}">{local:product($code-product)}</a>
        </div>
        <div class="col-md-3">{$prod-tot}</div>
    </div>
}
```

3

3

- 1 Native XML Database with eXist-db
 2 Interactive web application with xQuery
 3 Linked Open Data methodologies
 4 TEI encoding of toponyms, personal names, dates, accounting data
 5 Transcription based on EpiDoc Guidelines
 6 Demotic Transliteration in Unicode
 7 Semantic annotation with the demotic lemma list from TLA (Thesaurus Linguae Aegyptiae)
 8 Encoding of the determinatives taken from DWL (Demotische Wortliste online)
 9 Bibliography with API Zotero.org

Technical Layer

Generate automatic index

Calculate daily expenses

Produits	Personnes
acacia (lmjt/lmj/lmj)	28.5 ob.
aromes (lmyt)	1 ob.
bière (lmq)	42 ob. (3.5 kite)
bld (woe)	24 ob. (2 kite)
bois (lp)	2 ob.
coffre (rlt)	1 ob.
cuisse (lmt)	115 ob. (19 ob+8 kite)
eau (mw)	113.5 ob.
fruit-swb (swb)	41 ob.
huile (nlb)	223 ob.
mèche de lampe (sl)	11 ob.
olive (gjt)	33.5 ob.
pain-sn (sns)	225 ob.
pigeon (gpy)	36 ob. (3 kite)
Lieux	
Bâton (l-m-p-y) TM Geo 2127	
Bâton (l-m-p-y) TM Geo 2128	
Krokodilope (l-w-l-k-b) TM Geo 3227	
Nilope (l-w-p-y) TM Geo 1432	
Pélusion (p-h-d) TM Geo 1662	
Pisatis (p-h-y) TM Geo 1836	

Upcoming Development

- Advanced Faceted Search and Navigation
- Quantitative Analyses
 - Products, daily expenses, etc.
- Data Visualization
 - Prosopographical data, Phyle, etc.
- Product Notices
- Interoperability
 - Papyri.info, Trismegistos.org

