

# Manuscripts in the Digital Age

## XML-Based Catalogues and Editions

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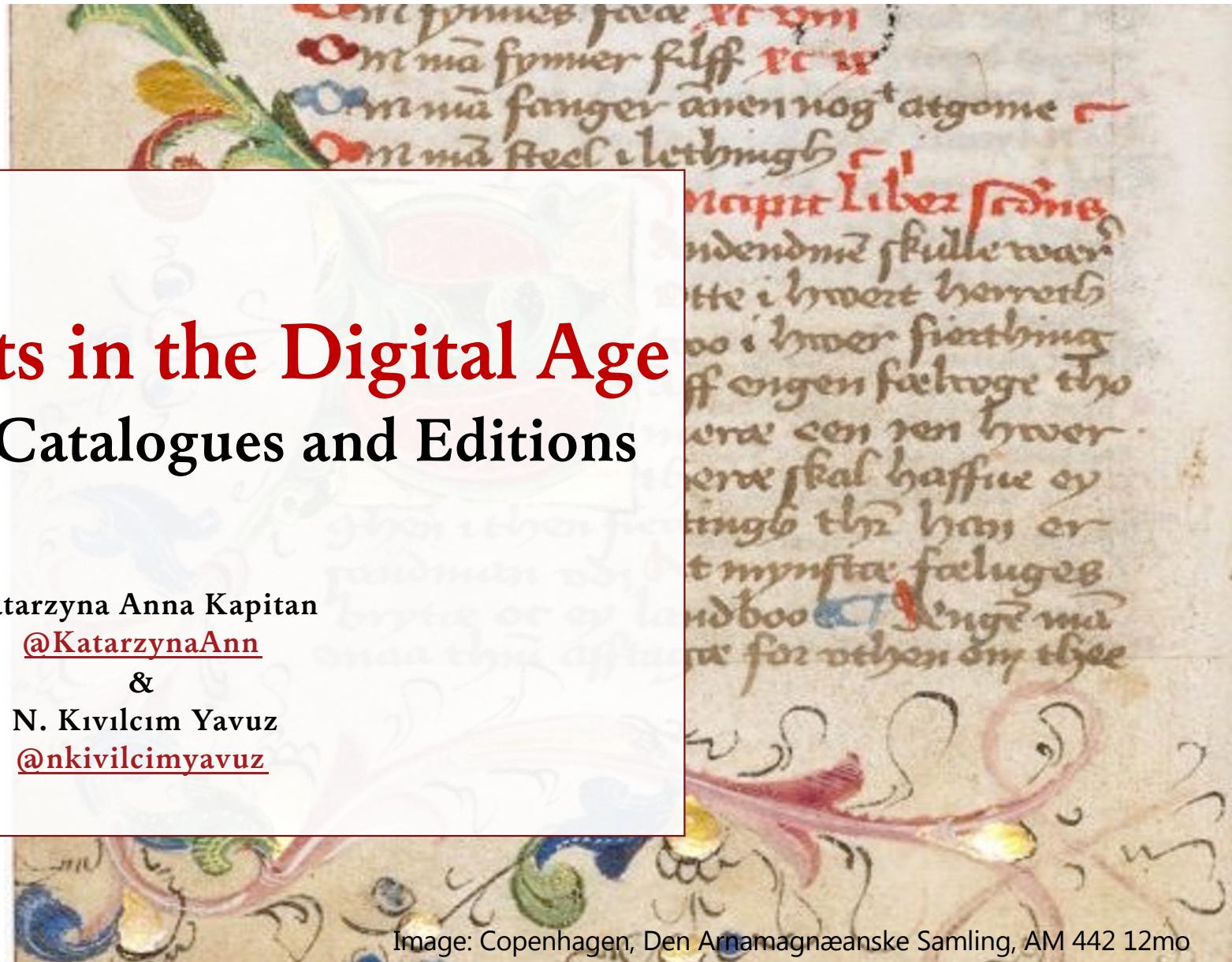


Image: Copenhagen, Den Arnamagnæanske Samling, AM 442 12mo



Transformations & Searching



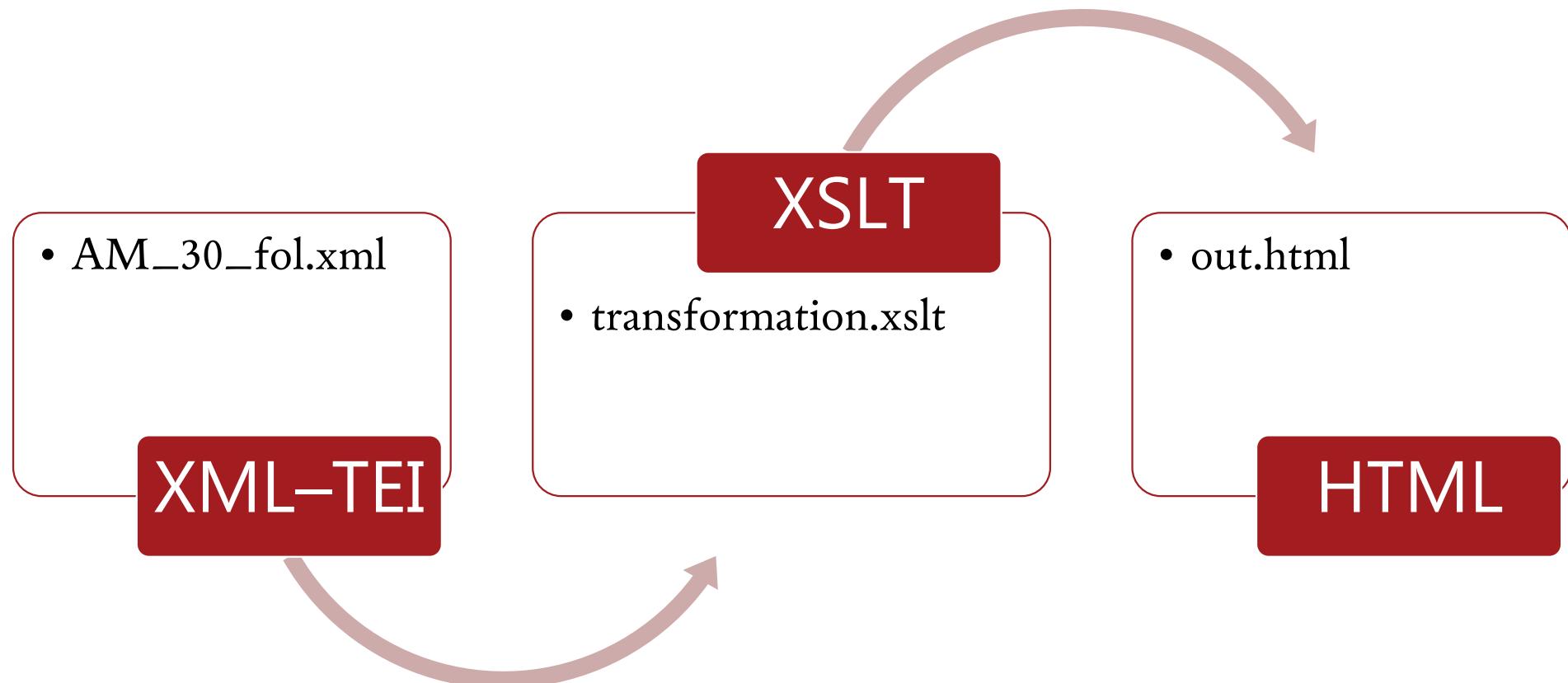
Hands-on



Feedback & Questions

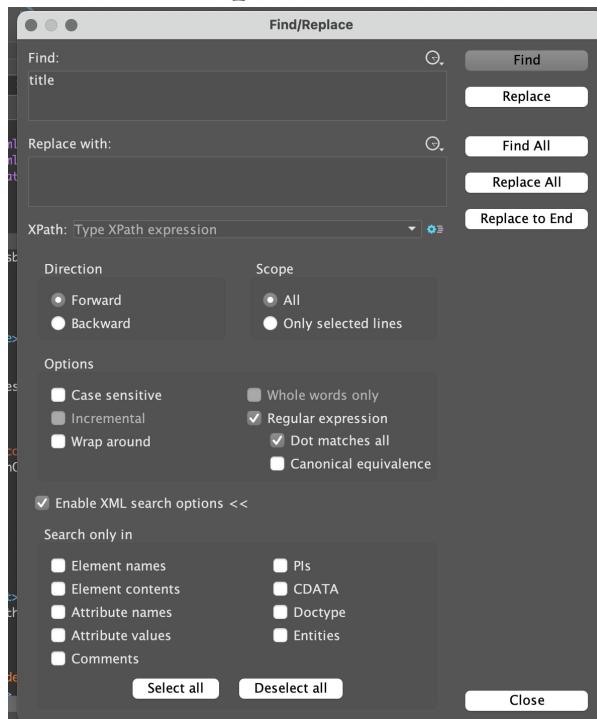
Image: Copenhagen, Den Arnamagnæanske Samling, AM 415 12mo

## Transformation from XML to HTML with XSLT

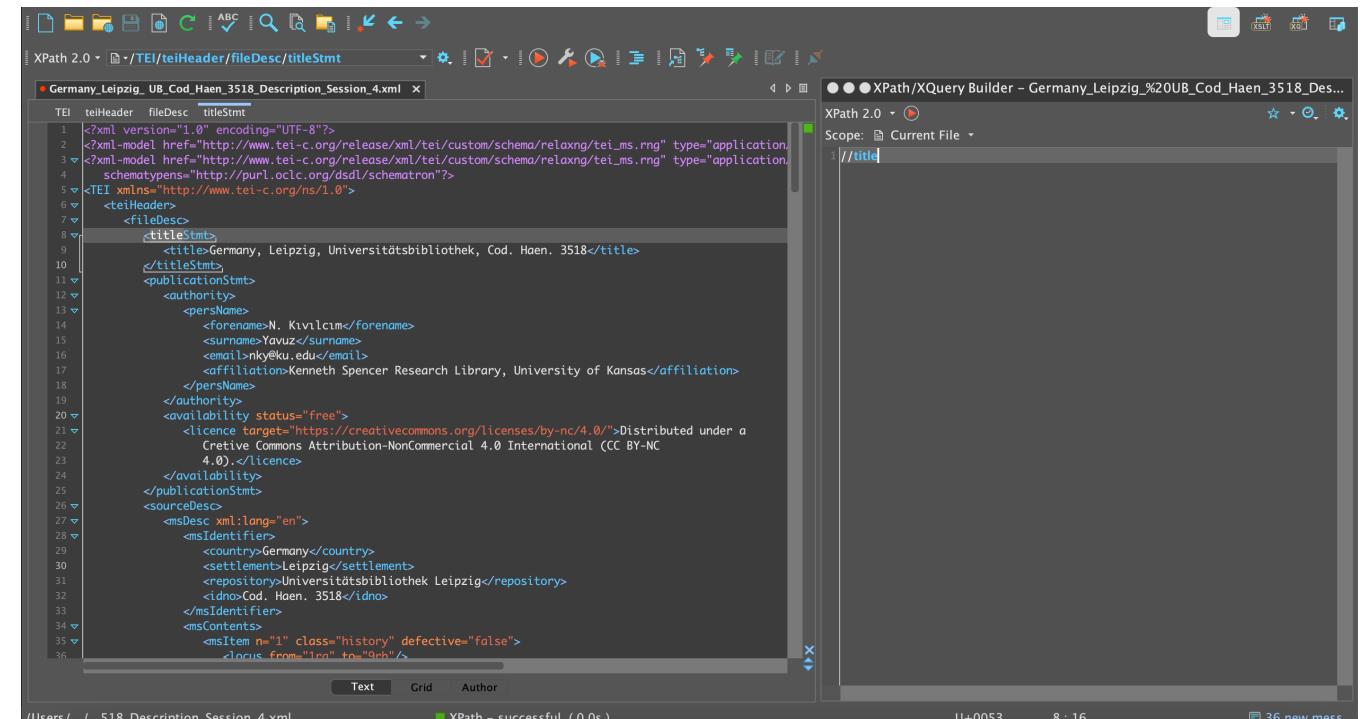


# Searching XML files

## Find/Replace



## XPath



## Exercise 1: Search

- Go to Workshop's Google Folder
- Go to subfolder Exercises/Week 1/Day5
- Download the entire **Transformations** folder.
- Open **France\_Paris\_BnF\_Latin\_5691\_Description\_Session4.xml**
- Using Find/Replace
  - search for title – how many results do you get?
  - search for title in element names – how many results do you get?
  - search for title in element contents – how many results do you get?
  - search for title in comments – how many results do you get?
- **How would you find only titles of msItems?**

## XPath

[...]

```
<sourceDesc>
    <msDesc xml:id="Ms-Paris-BNF-Lat-5691" xml:lang="en">
        <msIdentifier>
            <country>France</country>
            <settlement>Paris</settlement>
            <repository>Bibliothèque nationale de France</repository>
            <idno>Latin 5691</idno>
        </msIdentifier>
        <msContents>
            <msItem n="1" class="history" defective="false">
```

/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msContents/msItem

## XPath

- `//msItem`
  - `//msItem[@n='1']`
  - `count("//msItem")`
  - `//msItem[not(parent::msItem)]`
- ```
<msItem n="1" class="history" defective="false">
    <locus from="1r" to="20v"/>
    <author xml:lang="la">Dictys
        Cretensis</author>
        <author xml:lang="en">Dictys of
            Crete</author>
            <title type="uniform">Ephemeridos belli
                Troiani</title>
            <textLang mainLang="la"/>
        [...]
    </msItem>
```

## Exercise 2 XPath

- In the same file use Xpath to
  - search for all titles in the document: `//title` – how many are there?
  - search for titles within a msItem: `//msItem/title` – how many?
  - search for uniform titles within a msItem  
`//msItem/title[@type="uniform"]` – how many?
  - count number of uniform titles:  
`count('//msItem/title[@type="uniform"]')` – how many?
  - What is the difference between 3 and 4 searchers.

## Exercise 3 XPath on working sets

- Create a working set with two xml files in it  
**France\_Paris\_BnF\_Latin\_5691\_Description\_Session4.xml**  
& **Germany\_Leipzig\_ UB\_Cod\_Haen\_3518\_Description\_Session4.xml**
- Use XPath to (write down your XPath):
  - Show all the texts that are defective
  - Show all historical texts
  - Show all not historical texts
  - Show all texts in Latin
  - Count all historical texts
  - Count all defective texts
  - Count all texts in Latin

## XSLT & XPath

- Extensible Stylesheet Language Transformations
  - To HTML
  - To XML
  - To plain text
  - To other formats which can be converted into pdf, PostScript, PNG etc.
- ```
<xsl:template match="msItem/incipit">
<li>
<b>
<xsl:text>Incipit: </xsl:text>
</b>
<xsl:apply-templates/>
</li>
</xsl:template>
```

## Exercise 3 – XML to HTML with XSLT

- Open your newly download **Transformations** folder.
- Using Guidelines from Day 2, associate **msDescToHTML\_transform.xsl** with two xml descriptions **France\_Paris\_BNF...** and **Germany\_Leipzig\_UB....**. But instead of naming your output out.html, name it  **`${cfn}.html`**

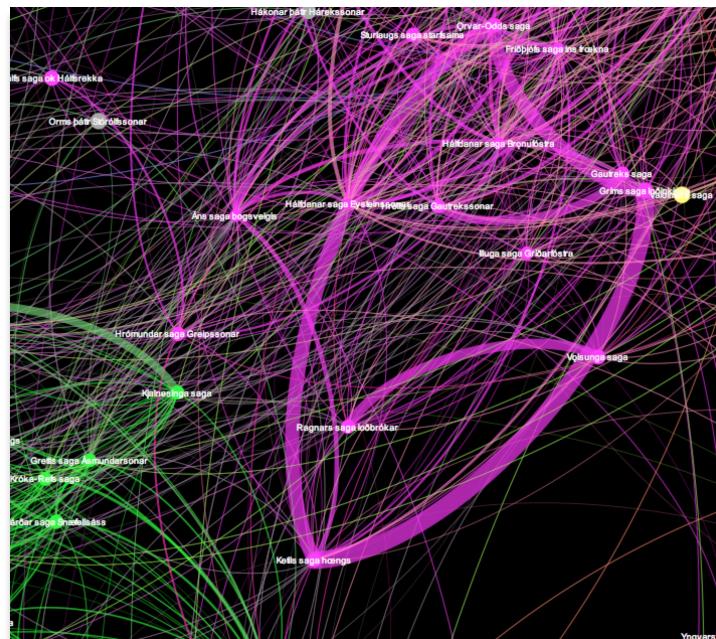
# Other possibilities: XML to PDF

1. Germany, Leipzig, Universitätsbibliothek, Cod. Haen. 3518 Parchment. Written in unknown number of hands.

## Contents:

- (i) *De excidio Troiae historia* (1ra-9rb) Dares Phrygius.
  - i. *Prologue* (1ra) Rubric: “Incipit prologus”. Incipit: “Cornelius nepos salustio suo salutem”. “Cornelius nepos salustio suo salutem”. Explicit: “Nunc ad pollicitum revertamur”. “Nunc ad pollicitum revertamur”.
  - ii. *History* (1ra-9rb) Incipit: “Pelias rex fuit in peloponense habuitque”. “Pelias rex fuit in peloponense habuitque”. Explicit: “Huc usque historia daretis scribitur qui Frigius fuit”. “Huc usque historia daretis scribitur qui Frigius fuit”.
- (ii) *Historia regum Britannie* (10ra-59vb) Galfridus Monemutensis.
  - i. *Prologue* (10ra-10rb) Rubric: “Incipit prologus in libro de gestis britonum”. Incipit: “Cvm multa mecum et de multis”. “Cvm multa mecum et de multis”. Explicit: “alterrum henricum adepta in terno gratulatur affectu”. “alterrum henricum adepta in terno gratulatur affectu”.
  - ii. *Description of Britain* (10rb-10va) Rubric: “Incipit descriptio Britanniæ insulæ”. Incipit: “BRITANNIA insula rvm optima occi dentali”. “BRI-TANNIA insula rvm optima occi dentali”. Explicit: “Qualiter et unde applicuerunt restat nunc perara re ut in sequentibus explicabitur”. “Qualiter et unde applicuerunt restat nunc perara re ut in sequentibus explicabitur”

# Other possibilities: XML to ....?



Kapitan, Katarzyna Anna. "Perspectives on Digital Catalogs and Textual Networks of Old Norse Literature." *Manuscript Studies: A Journal of the Schoenberg Institute for Manuscript Studies*, vol. 6 no. 1, 2021, p. 74-97, doi:10.1353/mns.2021.0002.

## Questions



## Hands-on: Individual Projects



# Feedback

