

# Medieval Words, Modern Methods

B.Eng.611 / B.DH.11 / SK.DH.04

Revision of November 4, 2025

<b>Term:</b>	Winter 2025–2026	<b>Instructor:</b>	Dr P. S. Langeslag
<b>Time:</b>	Tuesdays 10–12	<b>Office:</b>	SEP 2.306
<b>Room:</b>	VG 3.103	<b>Office hours:</b>	(send me an email)
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<b>Prerequisites:</b>	none		

This syllabus comprises an **Overview** (p. 1), a **Schedule** (p. 2), and an annotated **Bibliography** (p. 8).

## Overview

### Course Description

This seminar is a first introduction to text encoding and corpus evaluation. Carrying out a transcription project of their choice, students will learn how to encode special characters (XML entities), enrich their text with metadata (TEI), style documents for reading (CSS), retrieve XML text nodes and attribute values programmatically (Python), and run basic preprocessing and analytical tasks on the data so retrieved. Although these techniques may usefully be applied to texts of any era, our focus will be on representing, processing, and evaluating text contained in medieval manuscripts. Students will come away with their own XML edition and natural language processing (NLP) pipeline, paving the way for further work on their chosen text in future coursework or thesis research.

### Assessment

English Department students should register for the new module **B.Eng.611** Old Texts, New Technologies, which supersedes **B.Eng.602** for the purposes of this course. Please note that unlike the latter, B.Eng.611 is a seminar-only module with **no associated lecture course!** If you are interested in medieval studies but haven't yet completed B.Eng.602, you may want to consider taking this course and module *alongside* B.Eng.602: choose an additional seminar for B.Eng.602 and attend the lecture course in that context. Only B.Eng.602 gives access to B.Eng.603 and (indirectly) B.Eng.631.

Each student will carry out their individual project transcribing, encoding, processing, and evaluating a text from manuscript images, uploading their work on a regular basis so we can discuss issues encountered and strategies for improvement. The work also entails the writing of a brief scholarly introduction to the text. Students of B.Eng.611 will additionally give a presentation of ca. 10 minutes on aspects of their chosen text, and submit a fair copy of their XML+CSS+Python portfolio for assessment at the end of February; students of **B.DH.11** and **SK.DH.04** do not present or resubmit, but just keep up with their weekly project work (this course counts as their *Übung*).

### Diversity

This course is run with the understanding that students bring a variety of backgrounds into the classroom in such domains as prior knowledge, socioeconomics, appearance, culture, religion, ability, health, gender, age, family situation, and sexual identity. With different backgrounds come different needs and sensitivities. If you feel your needs or those of a fellow student require special attention or are being compromised, please feel free to make this known to me by whatever channel seems most appropriate. (For more serious concerns, the University has an **independent office**.) I will treat all requests seriously and with confidentiality, and will seek to make accommodations within my abilities and reason. At the same time, you too owe it to your fellow students to treat them with respect regardless of their background and identity. Do not stand in the way of anyone's well-being.

### Resources

Important resources for this course may be found in its dedicated **GitHib repository**. Apart from **XML** and **CSS** templates, it serves up the following important guides:

- The present **syllabus**;

- A **project specification**;
- **Project suggestions**;
- A **presentation specification**;
- A list of **resources**;
- A **software guide**;
- An **XML guide**;
- A **Python guide**.

## Schedule

Please do the following work *ahead* of the corresponding session, and bring any issues encountered to class for discussion.

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### Week 1 (28 Oct): Choosing Your Project

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#### Read:

- **Project Specification**
- **Project Suggestions**
- **Resources**

#### Do:

1. Set up (Git and) VS Code for (at least) XML following p. 2 of the **software** guide.

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### Week 2 (4 Nov): Palaeography

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#### Read:

- From **Brown, *A Guide to Western Historical Scripts***: pp. 48–71 (24 pp.)  
*Takeaway: This part of the book describes and illustrates Insular scripts above all, but it also spends a few pages on Caroline minuscule in both its Continental and Insular incarnations.*

#### Reading notes:

1. A typical script display book, this volume prints colour plates with their descriptions on facing pages. Accordingly, you may find it helpful to set your PDF reader to display two pages at a time (selecting “odd pages left”).
2. The book’s dating system works as follows: “s. v” is the 5th century (s. for *saeculum*); “s. x<sup>in</sup>” is the first quarter of the 10th century (*in* for *ineunte*); “s. viii<sup>med</sup>” is the period 725–775 (*med* for *medio*); “s. vii<sup>ex</sup>” is the last quarter of the 7th century (*ex* for *exeunte*); “s. ix<sup>l</sup>” is the first half of the 9th.
3. On p. 49 where it says Insular script used more abbreviations, please note that this concerns early *Latin* manuscripts and does not extend to Old English specimens, most of which are later and are comparatively sparing with abbreviations (excepting the nasal stroke typically for *m* or *n* and the Tironian note “7” for *and/ond*).

#### Do:

1. Select an appropriate 300-word text or excerpt for your project, using the **project suggestions** for inspiration and guidance. Ideally, this should be a medieval verse text, but prose and even early Modern English are admissible, provided they survive in manuscript form and offer sufficient metadata to make for an appropriate encoding challenge. Bring your suggestion to class for approval.

! Missed this session? Watch **Palaeography** (45m).

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### Week 3 (11 Nov): XML and TEI

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#### Read:

- pp. 3–4 of the **software guide** (“Navigating VS Code”)

- **Module 1 of the TEI by Example tutorials** (“Common Structure, Elements, and Attributes”).

*Takeaway: The most accessible and a very thorough introduction to TEI.*

#### Do:

1. Finalize your project selection; come prepared to motivate any changes to your topic in class.
2. Follow the instructions on pp. 1–4 of the **XML guide** to acquaint yourself with TEI transcription, as your initial project transcription is due next week! Ideally you'll start your formal transcription ahead of today's session.

#### Further reading (optional):

- From the **TEI Guidelines: ch. 3** (“Elements Available in All TEI Documents”)
 

*Takeaway: The technical specification for typical encoding needs in the TEI standard of XML.*
- **Haugen et al., “Menota Handbook”** (v3.0)
 

*Takeaway: Description of the Menota TEI standard for the transcription of Old Norse manuscript content.*

! Missed this session? Watch **TEI** (47m).

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### Week 4 (18 Nov): The Art of the Introduction, and the TEI Header

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#### Read:

- **pp. 4–6 of the XML guide**
- **Module 2 of the TEI by Example tutorials** (“The TEI Header”).

#### Reading note:

1. Not all information in this module will be equally relevant to your work. Try to determine which parts will be of use, and study those. Alternatively, read **the relevant chapter** of the TEI Guidelines directly.

#### Do:

1. Duplicate `template.xml` into `yourname_transcription.xml` (using your first name and the initial of your surname, e.g. `paul_l_transcription.xml`) and complete at least the most basic details of the TEI header: title, editor, and `<msIdentifier>`.
2. Transcribe and encode your chosen text as a TEI document, accounting for at least special characters (using entities where necessary), abbreviations (using `<ex>`), and basic textual units (`<l>` (where applicable) and `<1>` for verse, `<p>` for prose). Upload your work to the **Projects** folder. *Your transcription will likely have errors still; you will have the rest of the term (but especially the first few weeks) to correct these, reuploading your transcription with number suffixes to indicate draft maturity, e.g. `paul_l_transcription2.xml`.*

#### Further reading (optional):

- From the **TEI Guidelines: ch. 2** (“The TEI Header”); **ch. 4** (“Default Text Structure”)

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### Week 5 (25 Nov): Styling and Processing XML

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#### Read:

- **Module 4 of the TEI by Example tutorials** (“Primary Sources”).

#### Do:

1. Track down an edition of your project text if possible and proofread your own work against it.
2. Enrich your transcription by adding any scribal interventions (additions, deletions, replacements, notes) and palaeographical details (large initials, colour) you might want to encode; also consider whether there might be added value in converting your simple `<ex>` expansions into more complex `<choice>` nodes with `<abbr>` and `<expan>`. If you haven't already, this is also a good time to mark up your transcription with `<w>` (word) nodes. Here as with all your project work, note down any issues you encounter and anything you are unsure how to encode, so we can discuss it in class. Upload the revised document to the **Projects** folder.

3. If your excerpt has little by way of interventions and palaeographical detail, use this week as an opportunity to perfect your transcription, and start looking into enriching the TEI header and/or writing a CSS stylesheet.

#### Further reading (optional):

- **The Learn CSS course at web.dev**  
*Takeaway: An excellent, free-as-in-beer CSS course and podcast series.*
- From the **TEI Guidelines: § 12.3** ("Scope of Transcriptions") **down to and including § 12.3.3.2**

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### Week 6 (2 Dec): Part-of-Speech Tagging

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#### Read:

- **pp. 7–8 of the XML guide** ("Styling and Transformation")
- At least a few pages of the **W3Schools CSS Tutorial**; and/or watch **"Learn CSS in 20 Minutes"** (Web Dev Simplified @ YouTube)  
*Takeaway: Introduces the CSS specification. If already familiar, spend time with more advanced features in the web.dev Learn CSS course instead.*

#### Viewing note:

1. The Web Dev Simplified video misleadingly uses "smart" quotes in its code slides; only ever use "straight" quotes in code (but "smart" quotes in your coursework prose)!

#### Do:

1. Duplicate `tei.css` into `yourname_tei.css`, change the stylesheet declaration in the XML accordingly, and customize the stylesheet to your needs. Here too, you will have the rest of the term to finalize your stylesheet, but you'll want to do a meaningful part of the work this week.

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### Week 7 (9 Dec): Lemmatization

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#### Read:

- **Taylor et al., YCOE website**  
*Takeaway: Describes the POS-tagged Old English prose corpus YCOE.*  
**Reading notes:**
  1. Do not read the entirety of the website! Just take stock of the overall system of annotation, e.g. by looking over the POS labels and reading some of the motivation until you understand enough of the general approach to enable you to start using an annotation scheme like this yourself.
- **Schmid, "Deep Learning-Based Morphological Taggers and Lemmatizers for Annotating Historical Texts"** (4 pp.)  
*Takeaway: A technical paper describing the methodology behind RNNTagger.*  
**Reading notes:**
  1. This may be a challenging read, but you should have been primed for it in last week's class; either way just make as much sense of it as you can.

#### Do:

1. If the language of your text sample is represented in RNNTagger, see if you can install the software and determine the correct POS labels, and perhaps the lemmata, mechanically. The easiest way to produce an input text at this point, short of writing an XSLT stylesheet to transform your XML transcription into plaintext, is to copy the text from your browser output and paste it into a plaintext file.  
*NB: although the RNNTagger website does not list Old English among the languages for which it has training data, it does in fact have Old English training data for POS, though not for lemmatization.*
2. (Alternatively or additionally, you could see whether you can get **CLTK 2.0** to identify parts of speech (and more!) for your language. However, this relies on OpenAI API access, which is severely limited for free accounts.)

3. Are you able to eyeball the accuracy of the tagger for your language sample? Come prepared to report on your findings in class.
4. Whether or not you are able to employ a tagger, you are expected to enrich your transcription with a first type of advanced markup, such as POS or lemmata, as attribute data attached to your `<w>` nodes, even if you have to do it manually. Upload the revised XML file to the `Projects` folder.

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## Week 8 (16 Dec): Poetics

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### Read:

- **Abrams, “Meter”** (7 pp.), plus whichever of the following is the best match for your project:
  - For Old English: **Marsden, “Beginning Poetry”** (6 pp.) alongside **Mitchell and Robinson, “Metre”** (7 pp.)
  - For Middle English: **Ad Putter, “Verse Forms”** (17 pp.)

#### Reading notes:

1. pp. 128–129: Putter’s claim that printing two verses to a line better represents Orm’s intentions may seem puzzling in view of the poet’s own use of punctuation to separate the two halves of the line, but presumably he means to emphasize that they form a whole. You can find the verse boundaries by Putter’s observation that the line contains “four iambic feet in the a-verse and three in the b-verse” (129).
- For Old Norse: **Poole, “Metre and Metrics”** (19 pp.)
- For Latin: pp. 1–15 of **Califf, *A Guide to Latin Meter and Verse Composition*** (further exercises at [hexameter.co](http://hexameter.co)).
- If your topic is early Modern English, read at least §§ 0–2 of **Kiparsky, “The Rhythmic Structure of English Verse”** (11 pp.; the full article runs 58 pp.)

### Do:

1. If your text is a poem, learn its scansion. When in doubt, look it up, e.g. in **CLASP** for Old English.
2. Use the winter break to learn Python! See the homework for the next three sessions.

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## Week 9 (6 Jan): Python Basics

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### Read:

- **Ch. 1 of Bird et al., *Natural Language Processing with Python*** (the equivalent of 33 pp.)  
*Takeaway: An accessible and practical introduction to both Python and NLP.*

#### Reading notes:

1. Do not track down the hardcopy or PDF book, as it only exists in an outdated first edition; only the HTML edition is sufficiently up to date to reflect current versions of Python and its libraries.
2. Some chapters (but not all) in the online edition omit the chapter reference in headings; thus “§ 1.1.3” in these notes appears as **section “1.3 Searching Text”** in the HTML.
3. The exercises at the end of each chapter are optional; we won’t discuss them in class. I do, however, urge you to try out all the book’s code examples (“listings”) given over the course of each chapter’s main content as you do your weekly readings (see “**Do:**” below).
4. The easiest way to download the textbook materials is simply to enter `nltk.download('book')` instead of `nltk.download()` as described in the book; you can then skip straight to importing.
5. Please note that `nltk.FreqDist` really just reproduces `collections.Counter`, so the two may be used interchangeably. Just make sure to call it under the name by which you’ve imported it.

### Do:

1. Enrich your XML transcription with a second type of advanced markup, such as lemmata or metrical data, as attribute values associated with your `w` nodes. Upload the revised XML file to the `Projects` folder.
2. Follow along with the code examples in Bird et al. ch. 1.

#### Exercise notes:

- (a) The textbook assumes you are working in the standalone, text-based interpreter, but we will work in Jupyter notebooks instead, as described on pp. 4–5 of the [software guide](#). Interpret the work accordingly. No need to upload your code.
- (b) With Python, it is always possible for functions to change their behaviour as libraries are updated. Discovering how current syntax differs from that in textbooks is part of the puzzle, and is usually helped by a well-phrased web search.

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## Week 10 (13 Jan): Raw Text Processing

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### Read:

- [Bird et al. §§ 3.1–3.2, 3.4–3.5](#) (the equivalent of 25 pp. in all, from [ch. 3: “Processing Raw Text”](#))  
*Takeaway: Explains how to import text data and use stock functions and regular expressions to manipulate strings.*  
**Reading note:**

1. [§ 3.3](#) is a detailed treatment of text encoding solutions in Python. As long as we ensure we only work on UTF-8 systems and with UTF-8 files, we don't need to worry about this, but do refer back to this section if you run into issues with non-ASCII characters.

### Do:

1. Follow along with the code examples in Bird et al. §§ 3.1–3.2, 3.4–3.5.

#### Exercise notes:

- [§ 3.1 “Electronic Books”](#): The connection to Project Gutenberg appears rather sluggish of late; you may find the download takes 45 seconds to complete. If you encounter an `IncompleteRead` error, your connection was interrupted before the download was completed. Simply rerun your code until it works.
  - [§ 3.1 “Electronic Books”](#): Since UTF-8 is the default encoding for read operations in Python 3, instead of `raw = response.read().decode('utf8')`, we may as well write `raw = str(response.read())`.
  - [§ 3.1 “Electronic Books”](#): Though Project Gutenberg is thankfully accessible from Germany again, the files' front and back matter has changed somewhat since the current revision of the book was made available. Thus to locate the start of the back matter you will want to run `raw.rfind("*** END")` rather than `raw.rfind("End of Project Gutenberg's Crime")`.
  - Under [§ 3.1 “Reading Local Files”](#), the `U` flag on Python's stock function `open()`, for universal newline mode, has been deprecated and superseded by an option `newline=None`, which is set by default, as is `'r'`; so just use `f = open('document.txt')`. Note that you do have to repeat the `open()` command after running the `.read()` method, as the [garbage collector](#) closes it at this point. As you get more Python under your belt, you'll learn about ways of retaining information that won't require you to reopen files (specifically, the [with statement](#)).
  - Also under [§ 3.1 “Reading Local Files”](#), if you are using the remote JupyterLab instance (as opposed to a local IDE) to follow along with the examples, the easiest way to create a file is to select the Text File icon in the launcher category “Other.” You can use the “right-click” context menu to rename `untitled.txt` into something more memorable after saving.
2. Copy out your project text from the XML's browser output, paste it into a new file in your coding editor, delete any elements not part of the text proper, and save it as a plaintext file `yourname_pastefile.txt`. Then repeat some of the exercises from Bird et al. §§ 3.1 ([Reading Local Files](#) and onwards) and 3.2 with this file as your data source, so as to gain some familiarity with file access and string manipulation. Upload the plaintext file, as well as a notebook `yourname_practice.ipynb` demonstrating your ability at least to open your local file and read it into one or more strings, ideally using the `readlines()` method (see the [Real Python](#) guide for more detail).

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## Week 11 (20 Jan): Parsing XML: The Document Object Model (DOM)

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### Watch:

- either [Socratica, “XML & ElementTree”](#) (10m), or else [Max Rohowsky, “Parse XML Files with Python”](#) (10m);
- as well as [Francesco Cento, Parsing XML with Namespaces with Python](#) (17m);

- or if this is all familiar territory to you, study the [lxml.etree documentation](#) instead.

#### Study notes:

1. All these videos describe `xml.etree.ElementTree`. In practice, you are probably better off using `lxml.etree` instead, as it has better XPath support as well as such additional functionality as the `getparent()` method. The `lxml` documentation assumes you are already familiar with `ElementTree`, however, and `lxml` namespaces behave slightly differently, see [the documentation](#).
2. The indentation issue at [8m21s](#) and (implicitly) [8m52s](#) of the Socratica video can be avoided by defining a `tail` attribute for the last preceding sibling.
3. If you get impatient with the namespace video, the solutions start at [13m20s](#).

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### Week 12 (27 Jan): Preprocessing Your Transcription

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#### Read:

- Bird et al. §§ 3.6–3.10 (15 pp., from [ch. 3: “Processing Raw Text”](#))  
Takeaway: Teaches the first stages in the tackling of any text corpus with the help of regular expressions.

#### Do:

1. Use `lxml.etree` or else `xml.etree.ElementTree` to extract a normalized text (abbreviations resolved, scribal interventions accepted or ignored, editorial emendations accepted) directly from your XML document.
2. Case fold and tokenize your transcription, and consider whether any further normalization is desirable.
3. Write code to output your transcription to `yourname_transformation.txt`, one verse line or prose paragraph to a line.
4. Redefine each token in your data container as a Python dictionary with an entry `text` as well as one entry for each type of metadata you have encoded, e.g. `lemma` and `pos`, so you can query e.g. the part of speech of your first token by accessing `tokens[0]['pos']`, the lemma of your second token by accessing `tokens[1]['lemma']`, etc.
5. If you have encoded metrical metadata, think of a way of encoding this at the verse, line, and/or stanza level as well, e.g. by organizing your tokens into shorter lists corresponding to those units and carrying the relevant metadata.
6. Upload your code as `yourname_evaluation.ipynb`, along with the plaintext file you generated in step 3.

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### Week 13 (3 Feb): Text Evaluation

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#### (Re)read:

- Bird et al., [ch. 1](#) up to and including § 1.3.4 (“Counting Other Things”)
- Cattanach, [zipfs-law](#) (README.md and `zipf.py`)

#### Do:

1. Starting from your evaluation notebook, revisit the lexical diversity formula from Bird et al. § 1.1.4 (“Counting Vocabulary”) and apply it to a normalized list of tokens retrieved from your project transcription.
2. If we haven’t already got there in class, come up with a way of redefining the `lexical_diversity` function to make it less sensitive to the length (token count) of the document.
3. Revisit Bird et al. § 1.3 “Computing with Language: Simple Statistics” and generate a full frequency ranking of the letter characters in your text, discarding spaces and punctuation.
4. If your text is poetry, take a cue from Bird et al. § 1.3.4 (“Counting Other Things”) and determine the number of words per verse line (or alternatively, for Old English: per halfline) of your text. If you can find a way, also count the average number of syllables per line (or halfline). If your text is prose, count the average number of characters per word instead.
5. Upload your updated notebook to the `Projects` folder.

#### Further reading (optional):

- Trott, “Intro to Text Processing, NLP, and Corpus Linguistics” (esp. part 1; also available in notebook format [here](#))



- Desagulier, “Statistics for Text Analysis” (10 pp.)

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## Week 14 (10 Feb): Visualization

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**Read:** At least one of the following:

- Trott, “Introduction to Data Visualization in Python” (also available in notebook format [here](#))
- From Real Python, “Python Plotting With Matplotlib”

**Reading note:**

1. This is a long article about a complicated library with a convoluted history. You can also just copy out existing graph code from elsewhere, but in that case you’ll spend years not knowing why you use the syntax that you do.

**Do:**

1. Starting from your evaluation notebook, produce at least four graphs based on your transcription (along with a broader corpus of similar texts), of at least two kinds (e.g. bar graph, scatter plot, line plot). Suggestions:
  - A bar graph visualizing an absolute count of the 20 most frequent terms in your document;
  - A bar graph visualizing an absolute count of the Sievers verse types used, if your text is an Old English poem and you have encoded this information;
  - A logarithmic line plot of the Zipf distribution of terms in your document;
  - A bar graph comparing the average number of words (better: syllables) per verse line across a range of poems comparable to the one you transcribed (to this end you need a corpus that is already divided into verse lines, not sentences, so e.g. for Old English you’ll need the ASPR or CLASP corpus, not DOEC or YCOEP);
  - A 2d scatter plot of the lexical profiles of peer texts within the genre, obtained through dimension reduction from their TF-IDF vectors.
2. Upload your updated notebook to the Projects folder.

## Bibliography

### § 1: Textbooks and Reference Works

Abrams, M. H., and Geoffrey Galt Harpham. *A Glossary of Literary Terms*. 11th ed. Stamford, CT: Cengage Learning, 2015.

*A valuable reference work; start with the entry entitled “Meter.”*

Barnard, John, David McKitterich, and I. R. Willison, eds. *The Cambridge History of the Book in Britain*. 7 vols. Cambridge: Cambridge University Press, 1999–2019.

*A detailed multivolume history, the first two volumes of which cover the Middle Ages.*

Beal, Peter. *A Dictionary of English Manuscript Terminology 1450–2000*. Oxford: Oxford University Press, 2008.

*An alphabetically organized explanation of concepts surrounding codicology and palaeography.*

Bischoff, Bernhard. *Latin Palaeography: Antiquity and the Middle Ages*. Translated by Dáibhí ó Cróinin and David Ganz. Cambridge: Cambridge University Press, 1993.

*The standard textbook on Western palaeography. You may, of course, prefer to read it in the original German.*

Bishop, T. A. M. *English Caroline Minuscule*. Oxford: Clarendon, 1971.

*A book of plates illustrating the script that dominated Anglo-Latin manuscripts after the 10th-century Benedictine Reform.*

Brown, Michelle P. *A Guide to Western Historical Scripts from Antiquity to 1600*. London: British Library, 1990.

*A practical guide, containing many plates.*

Califf, David J. *A Guide to Latin Meter and Verse Composition*. London: Anthem, 2002.



Cappelli, Adriano. *Dizionario di abbreviature latine ed italiane*. 6th ed. Milan: Ulrico Hoepli.

*The go-to handbook of Latin abbreviations. Different editions are available in various formats online.*

Coulson, Frank T., and Robert G. Babcock, eds. *The Oxford Handbook of Latin Palaeography*. Oxford: Oxford University Press, 2020.

*The definitive guide to Latin script and book history, in 1072 pp. and with greyscale plates (some colour in the ebook edition).*

Eggert, Paul. "Apparatus, Text, Interface: How to Read a Printed Critical Edition." In *The Cambridge Companion to Textual Scholarship*, edited by Neil Fraistat and Julia Flanders, 97–118. Cambridge: Cambridge University Press, 2013. <https://doi.org/10.1017/CCO9781139044073>.

*A discussion of editorial and layout approaches, though without graphical illustration and focused rather exclusively on the reception of texts first published in Modern print.*

Fraistat, Neil, and Julia Flanders, eds. *The Cambridge Companion to Textual Scholarship*. Cambridge: Cambridge University Press, 2013. <https://doi.org/10.1017/CCO9781139044073>.

*A rich selection of approaches, each offering a different introductory angle on the field of textual scholarship.*

Hanna, Ralph. *Editing Medieval Texts: An Introduction*. Using exemplary materials derived from Richard Rolle, *Super canticum* 4. Liverpool: Liverpool University Press, 2015.

*An accessible introduction, walking the reader through the editing of Rolle's commentary on the Song of Songs.*

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*A detailed manual to the encoding of medieval text.*

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*A detailed glossary of text-critical terminology.*

Huskey, Samuel J., and Hugh Cayless. "Guidelines for Encoding Critical Editions for the Library of Digital Latin Texts," March 4, 2020. <https://digitallatin.github.io/guidelines>.

*A manual for TEI-encoding works for LDLT.*

Langeslag, Paul, Heike Sahm, Roland Scheel, and Michael Schwarzbach-Dobson, eds. *Die Anfänge germanischsprachiger Literaturen: Ein interdisziplinäres Studienbuch*. Freiburg im Breisgau: wbg Academic, 2025. <https://www.herder.de/wissen/shop/p8/89097-die-anfaenge-germanischsprachiger-literaturen-open-access-pdf/>.

*An introduction to early Germanic literature, including overviews of the text types represented in each language.*

Leneghan, Francis. "Making Sense of Ker's Dates: The Origins of *Beowulf* and the Palaeographers." *Proceedings of the Manchester Centre for Anglo-Saxon Studies Postgraduate Conference* 1 (2005): 2–13.

*Reverse-engineers the dating system used in Ker's Catalogue.*

Marsden, Richard. "Beginning Poetry." In *The Cambridge Old English Reader*, 2nd ed., 29–34. Cambridge: Cambridge University Press, 2015.

*A concise and accessible introduction to the reading of Old English poetry.*

Maurer, Karl. "Commonest Abbreviations, Signs, Etc. Used in the Apparatus to a Classical Text." Accessed October 15, 2025. [http://udallasclassics.org/wp-content/uploads/maurer\\_files/APPARATUSABBREVIATIONS.pdf](http://udallasclassics.org/wp-content/uploads/maurer_files/APPARATUSABBREVIATIONS.pdf).

*A helpful glossary of Latin terms and abbreviations used in apparatuses.*

Mitchell, Bruce, and Fred C. Robinson. "Metre: With Examples from the Poems in this Guide." In *A Guide to Old English*, 8th ed., 156–162. Malden, MA: Wiley–Blackwell, 2012.

*A brief but well-informed introduction.*

Piazzoni, Ambrogio, and Anna Berloco. “Latin Paleography: From Antiquity to the Renaissance.” <https://spotlight.vatlib.it/latin-paleography>.

*A resource teaching antique and medieval scripts.*

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*A database of abbreviations, paid through a one-time fee.*

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