

Text as Data II – Final Project

Make your own *Frankenstein* digital edition 2023-2024

MA [Digital Text Analysis](#)

Exam project description

In the Text as Data I & II classes, we discussed what digital scholarly editing is and learned about various digital methods, tools, technologies, and programming languages that can be used to create a digital scholarly edition. Digital scholarly editions are usually based on texts, such as transcriptions of notebooks, drafts or manuscripts, annotated by the scholarly editor. These transcriptions are often based on images of the texts in question, which may be available through IIIF. The mark-up is added in the XML metalanguage (syntax) and most scholarly digital edition projects use (a selection of) the TEI guidelines (vocabulary) to encode the textual phenomena important to the project. XPath can then be used to navigate and query these TEI-XML encoded texts, or to select specific nodes. Because digital editions are presented on the Web, TEI-XML documents must be transformed into another XML-based markup language: HTML. This can be done using XSLT (which uses XPath to select nodes). Once transformed to HTML, the edition can be further styled using CSS, and additional functionality – such as different views of the same texts – can be added using JavaScript.

In this exam project, you are going to combine these skills in making a mini digital edition of chapter 7A of Mary Wollstonecraft Shelley's *Frankenstein* from the Bodleian MS. Abinger c.56 manuscript. We will host this edition using GitHub-pages.

Setting up the project:

We provide you the basic template of the edition in the zip-folder "Frankenstein_template" on Blackboard. This folder consists of:

- index.html – the homepage of the edition
- 10 html documents for every manuscript page in the edition: 21r.html, 21v.html, 22r.html, 22v.html, 23r.html, 23v.html, 24r.html, 24v.html, 25r.html, and 25v.html.
- 10 xml documents with the transcription of the manuscript pages encoded in TEI-XML, specifically following the guidelines for the [BDMP](#): 21r.xml, 21v.xml, 22r.xml, 22v.xml, 23r.xml, 23v.xml, 24r.xml, 24v.xml, 25v.xml, 25r.xml.
- 2 xsl files: "Frankenstein_text.xsl" and "Frankenstein_meta.xsl". The first transforms the text of the transcription and outputs it in the html file, the second transforms the information in the teiHeader and outputs some basic statistics.
- script.js – the functions in JavaScript: one that loads the IIIF manifest of the manuscript, one that applies the xsl "Frankenstein_text.xsl" and one that applies the xsl "Frankenstein_meta.xsl". Here you should also add other JavaScript functions, as indicated below.
- style.css – the css file for additional styling of the html pages.

This is your starting point for creating the edition. Follow the steps below to modify the edition further:

1. **Save the folder on a convenient location on your computer.**
2. **Run a local static server.**

As you are developing the digital edition, it is convenient to be able to immediately see the changes that you made. For this, you need to host your files in a “static” server (an HTTP server to serve files as-is from a directory). Since you all have Python installed, we will use the rather simple Python option. You do this as follows:

1. Open the command line.
2. Navigate in the command line to the folder with the project:
cd /path/to/your/project/Frankenstein
3. Enter the following command:
python3 -m http.server
4. This will give you a message like this:
Serving HTTP on :: port 8000 (http://[:]:8000/) ...
5. In your browser, go to:
<http://localhost:8000>
6. You can now see the edition and navigate through it.
7. You can change the files in oXygen XML editor or another basic text editor such as Sublime. When you save your changes and reload the page in the browser, you can immediately see the result of your changes. Note: browsers usually cache the CSS file, so if you change something in the CSS and it does not change immediately, hard reload the page, clear changes or open it in an incognito tab.
8. If you want to stop working on it for the day, you can quit the server by typing in the command line:
Ctrl C

The changes to make:

Although we provide you with the basic template of the edition, various changes are still needed, and you get the chance to really make it your own edition by styling it the way you like and adding extra functionalities.

There are a couple of things that are obligatory:

1. **Transcriptions:** although we provided you with the basic transcriptions, based on the transcription you made as homework. However, not all the transcription are corrected yet. Start with correcting the transcription and making them consistent by comparing it to the transcriptions of the [Shelley-Godwin Archive](#) and the first page (“21r.xml”).
 - a. Make sure the additions and deletions are encoded and that you indicate the hand, either Mary (#MWS) or Percy (#PBS), and the place for additions and the type for additions.
 - b. That all the line breaks are indicated with `<lb/>`.
 - c. That all the superscript and underlined text is indicated, using respectively: `<hi rend="sup">` and `<hi rend="u">`.

- d. You can also consider restructuring the metadata in `teiHeader`, and/or adding additional information, so that it can be shown differently in the HTML as well.
2. **Transformation to HTML:** write additional templates in "`Frankenstein_text.xml`" and "`Frankenstein_meta.xml`" to make sure that there is a template for every aspect of the text that is encoded in TEI that you want to visualise in the HTML as well:
 - a. In "`Frankenstein_text.xml`", the line breaks, the superscript text, the underlined text, the circled page number on the manuscript page, the text that was added by overwriting it.
 - b. In "`Frankenstein_meta.xml`", expand the list with other statistics, for example the number of corrections by Percy Shelley, the number of corrections by Mary Shelley, perhaps even the number of words on the manuscript page. In this same stylesheet, you can also make modifications to visualise the metadata differently.
3. **JavaScript:** In "`script.js`", write additional functions:
 - a. A function that highlights or changes the colour of the text that was added or deleted (corrected) by Percy Shelley, and the texts written and corrected by Mary Shelley. A starting point for this is already given in the file, but feel free to modify.
 - b. A function that will toggle the display of the deletions by clicking on a button.
 - c. EXTRA: write a function that will display the text as a reading text by clicking on a button or another dropdown list, meaning that all the deletions are removed and that the additions are shown inline (not in superscript).
4. **HTML:**
 - a. Add additional information on the homepage ("`index.html`"):
 - i. A photograph of Mary Shelley and Percy Shelley;
 - ii. A table/list with the pages in this digital edition;
 - iii. A link to the Bodleian Library (<https://www.bodleian.ox.ac.uk/home>)
 - iv. A link to the Shelley Godwin Archive, on which this digital edition was based (<http://shelleygodwinarchive.org/>)
 - v. The licence, including link: (<https://creativecommons.org/licenses/by-nc/4.0/>)
 - vi. A link to the encoding manual (<https://bdmpmanual.uantwerpen.be/>)
 - vii. Your name!
 - viii. Every other context or information you think is relevant to mention.
 - b. On every page, add buttons to easily navigate to the previous or next page.
 - c. Add other things to think of as relevant.
5. **CSS:** Style the HTML by expanding the CSS, be creative!
 - a. All the supralinear additions should be given in superscript, underlined text as underlined, try to put a circle around the page number, etc.
 - b. We used Bootstrap version 4.3 for the layout: <https://getbootstrap.com/docs/4.3/getting-started/introduction/>
6. **Additionally:** You can add `<notes>` to the TEI transcription, with editorial notes on the manuscript, or `<metamark>`'s, and find a way to visualise them in the HTML, such as a toggle to hide and show your notes.
7. **Bonus:** The project folder is now not very organised, with all the files together in one folder. Try storing all the HTML files in a dedicated folder called 'html', the XML files in another folder, etc. Can you make changes to the code and the HTML to make sure it can still find the necessary files? OR:

8. **Pro:** We now work with separate HTML files, but can you change the code so that we would not need separate html files for each page?

Publishing the edition on GitHub pages

If you are finished with your edition, you can host it on GitHub, using GitHub-pages. In the class of 15 December, we will run through the steps of making a GitHub page and provide a workshop on working with Git. It is therefore **highly recommended to attend this class**.

What to submit?

You are expected to submit a 1 to 2-page **reflection report** in which you will briefly explain the changes you made, the functionalities you added and the choices you made. You can also indicate what you found difficult or easy, and how you experienced the exercise. **Important:** mention the link to your GitHub-page!

The deadline of the edition project will be **Monday 15 January 12:00 am**. Please upload your reflection report and the link to your GitHub-page on Blackboard.

Good luck, and most of all, have fun!

If you have any questions, feel free to email us.

Evaluation Text as Data II

- **Individual Project (100%)**
 - Frankenstein Edition Project
 - Deadline: **Monday 15 January, before 12:00 am**

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