

Exercise 1: Download and preview the Quire project template

1. Download the project template

Steps:

- Use the link in the Tuesday session slides to download the zip file named 'quire_template.zip'
- Extract the contents of the file wherever you like on your system

2. Preview the project template

Steps:

- Open your console
 - If you are on macOS, this will be the Terminal. If you are on Windows, this will be PowerShell or Command Prompt
- Make sure your console is in the same directory as the project template. Do this by using the '**cd path/to/the/template**' command (change directory). For example, if your project is still in the Downloads folder, run '**cd Downloads/quire_template**'
- In the console, run the command '**quire preview**'
- Copy the URL provided and open it in your web browser

The URL is printed after 'Server at' in the console

```
my-project — node ◀ node --no-warnings ~/.nvm/versions/node/v20.14.0/...
rules will be changing to match the behavior specified by CSS in an upcoming
version. To keep the existing behavior, move the declaration above the nested
rule. To opt into the new behavior, wrap the declaration in '& {}'.

More info: https://sass-lang.com/d/mixed-decls

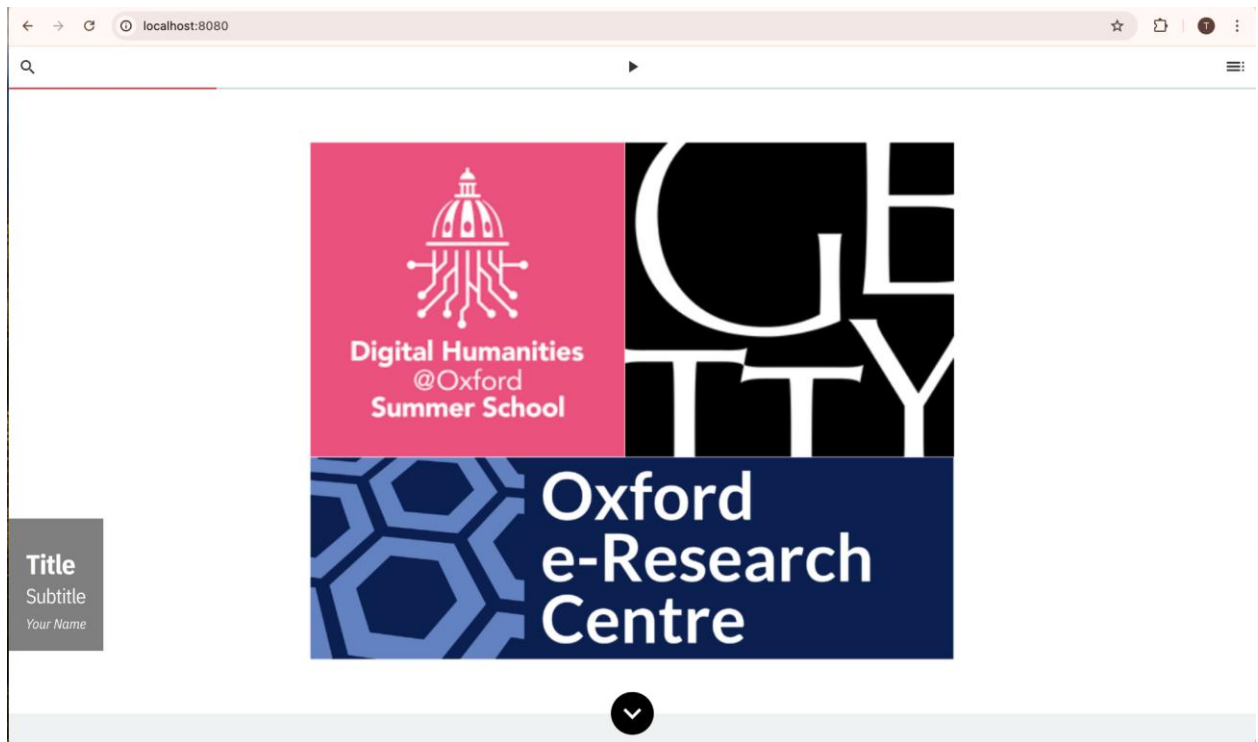
81 |         :last-child, section > :last-child {
82 |             margin-bottom: 0;
83 |         }
   |         nested rule
...
90 |         widows: 2;
   |         ^^^^^^^^^ declaration

content/_assets/styles/epub.scss 90:3  root stylesheet

WARNING: 1 repetitive deprecation warnings omitted.
Run in verbose mode to see all warnings.

[11ty] Copied 383 files / Wrote 10 files in 4.12 seconds (412.0ms each, v2.0.1)
[11ty] Watching...
[11ty] Server at http://localhost:8080/ ← URL to open project in browser
```

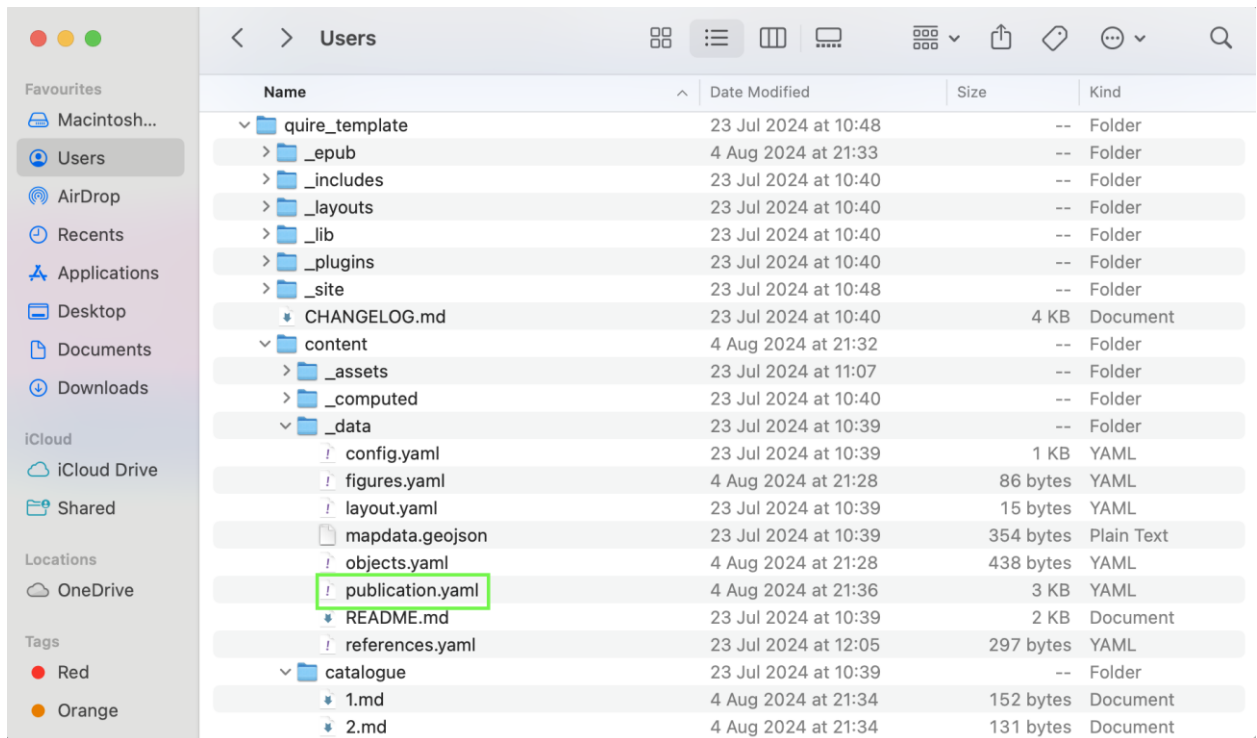
When you follow the URL in your browser, you should see the title page of project template



Exercise 2: Give your project a title and add your name

- Open publication.yaml in your code or text editor.¹
Steps:
 - a. Open the 'data' folder at the directory 'quire_template/content/data'. You will find the publication.yaml file there

¹ Getty recommends using an editor that offers auto-formatting as well as the ability to see and work in multiple text files at a time, such as [Visual Studio Code](#), [Brackets](#), and [Sublime Text](#). **A recommended editor is not required here. Your choice of editor will not have a significant impact on your experience doing these exercises.** We are using Visual Studio Code in our examples.



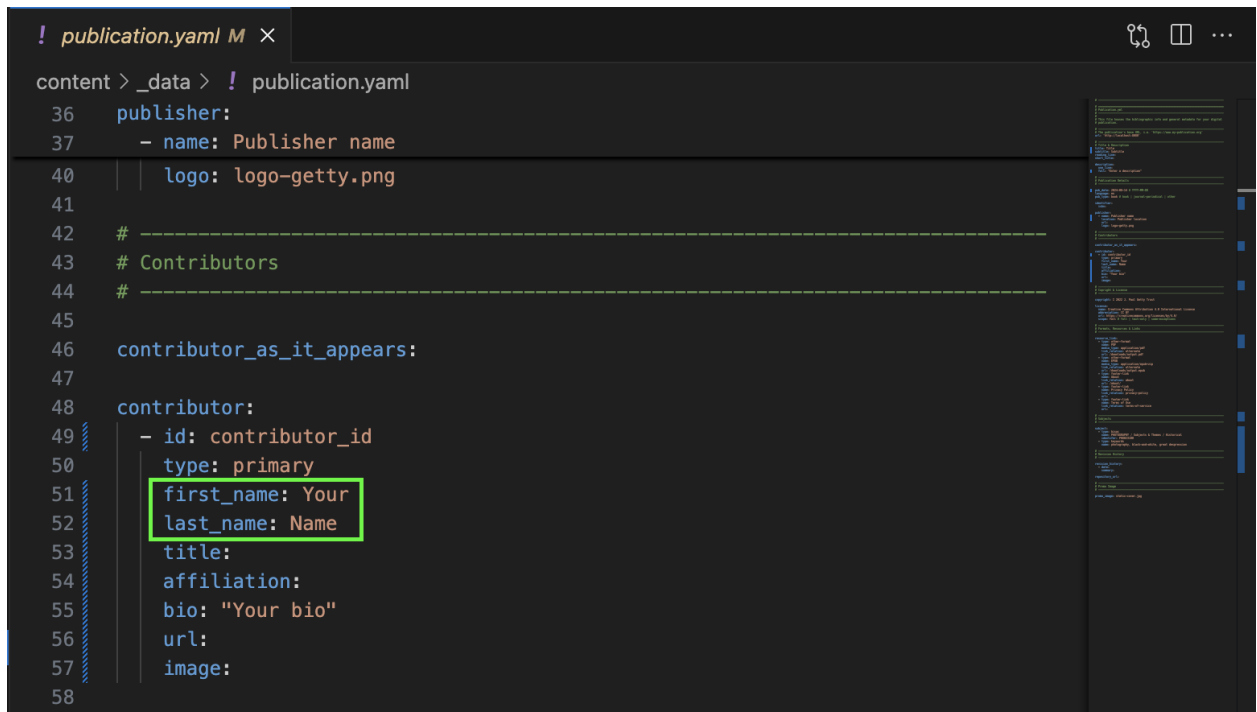
- Enter a title and subtitle in the 'Title & Description' section
- Steps:
- Find the 'Title & Description' section of the publication.yaml file
 - Give your project a title, and, optionally, a subtitle

```
! publication.yaml M X
content > _data > ! publication.yaml
1  # -----
2
3  # =====
4  # Publication.yml
5  # -----
6  #
7  # This file houses the bibliographic info and general metadata for your digital
8  # publication.
9
10 # -----
11 # The publication's base URL, i.e. 'https://www.my-publication.org'
12 url: 'http://localhost:8080'
13
14 # -----
15 # Title & Description
16 title: Title
17 subtitle: Subtitle
18 reading_line:
19 short_title:
20
21 description:
22   one_line:
23   full: "Enter a description"
24
```

- Enter your name in the 'Contributors' section

Steps:

- Find the 'Contributors' section of the publication.yaml file
- Enter your first and last name



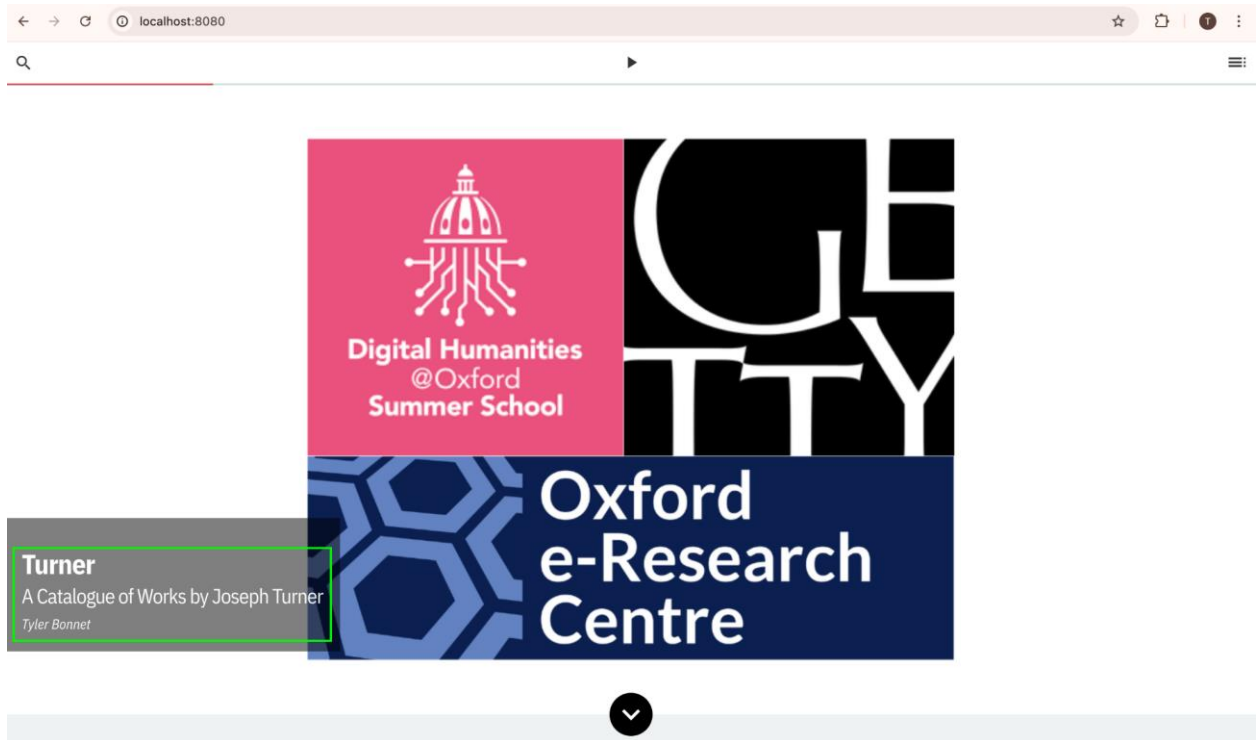
```
! publication.yaml M x
content > _data > ! publication.yaml
36 publisher:
37   - name: Publisher name
40     logo: logo-getty.png
41
42   # -----
43   # Contributors
44   # -----
45
46   contributor_as_it_appears:
47
48   contributor:
49     - id: contributor_id
50       type: primary
51       first_name: Your
52       last_name: Name
53       title:
54       affiliation:
55       bio: "Your bio"
56       url:
57       image:
58
```

- Save the file and view the changes

Steps:

- Save the publication.yaml file
- Stop the current preview by pressing **ctrl + c** in the console
- Run the command '**quiere preview**'
- Check the title page and make sure the title and name you entered in publication.yaml appear

Note: It is not always necessary to stop the current preview and rerun the preview command to see changes. This time it is, but for future changes, try simply saving the file and looking for the changes first. They may appear without you having to rerun the preview command

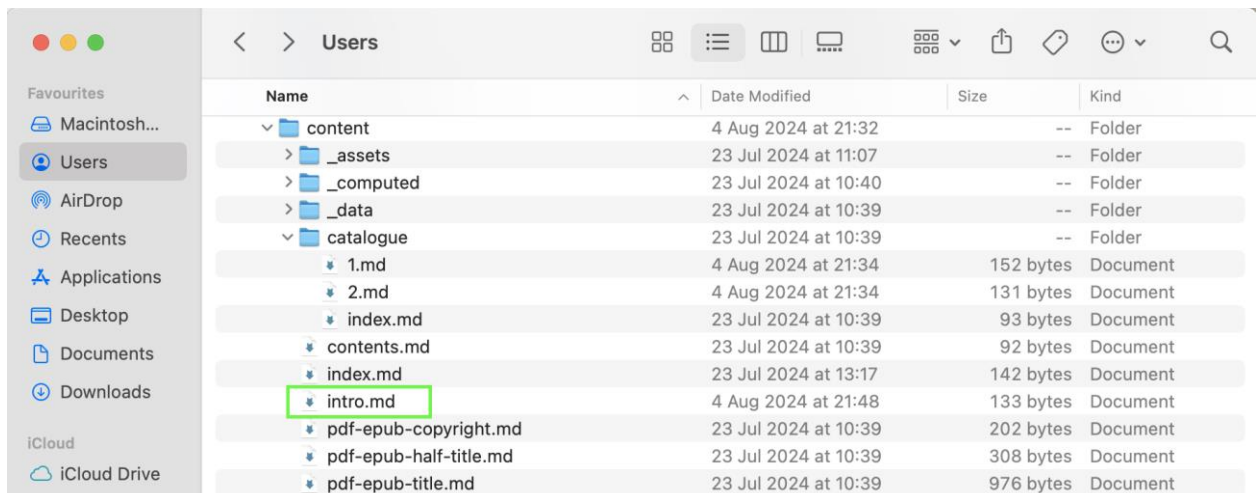


Exercise 3: Write a brief introduction

1. Open the intro.md file

Steps:

- a. Open the intro.md file in the 'quire_template/content/' folder



2. Write an introduction for your project where it says 'Write an introduction of your project here'

Steps:

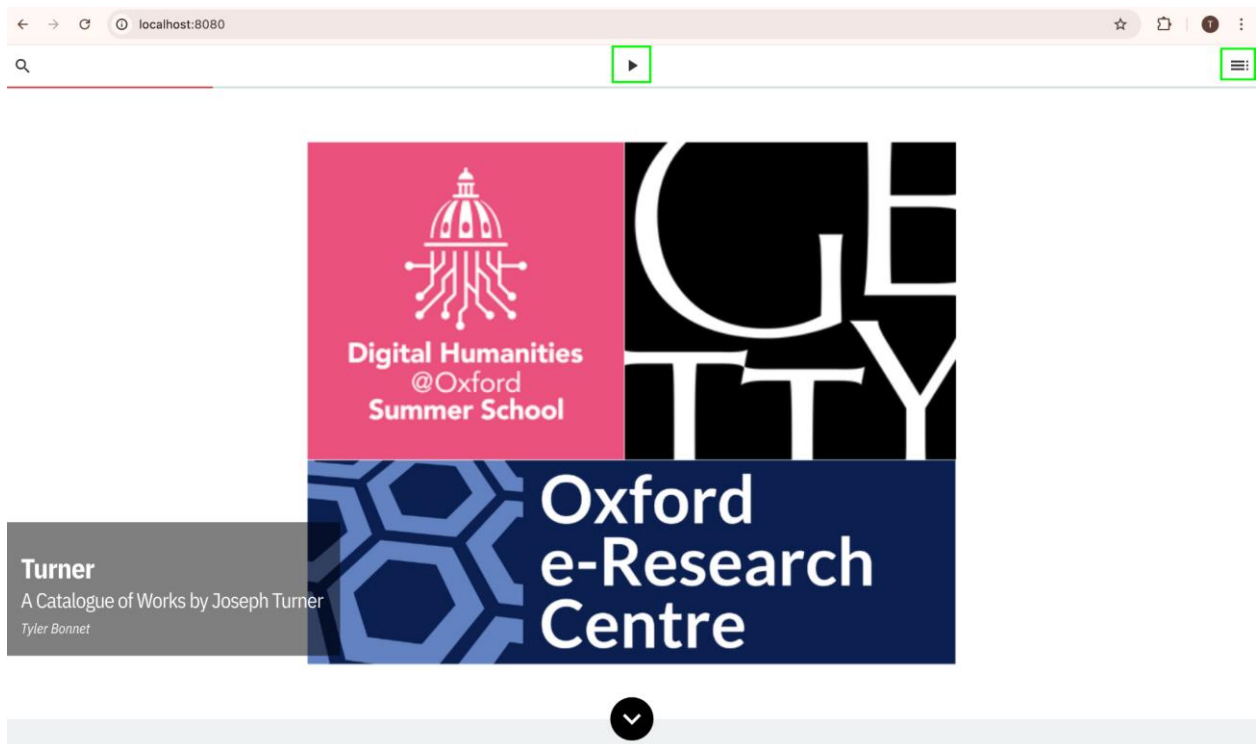
- a. Find where it says 'Write an introduction of your project here', erase that sentence, and write your own brief introduction (a sentence or two for now, you can always come back and add more)

```
intro.md M x
content > intro.md
1 ---
2 title: Introduction
3 subtitle:
4 layout: splash
5 order: 10
6 image: figures/white.jpg
7 ---
8 Write an introduction for your project here.
9
```

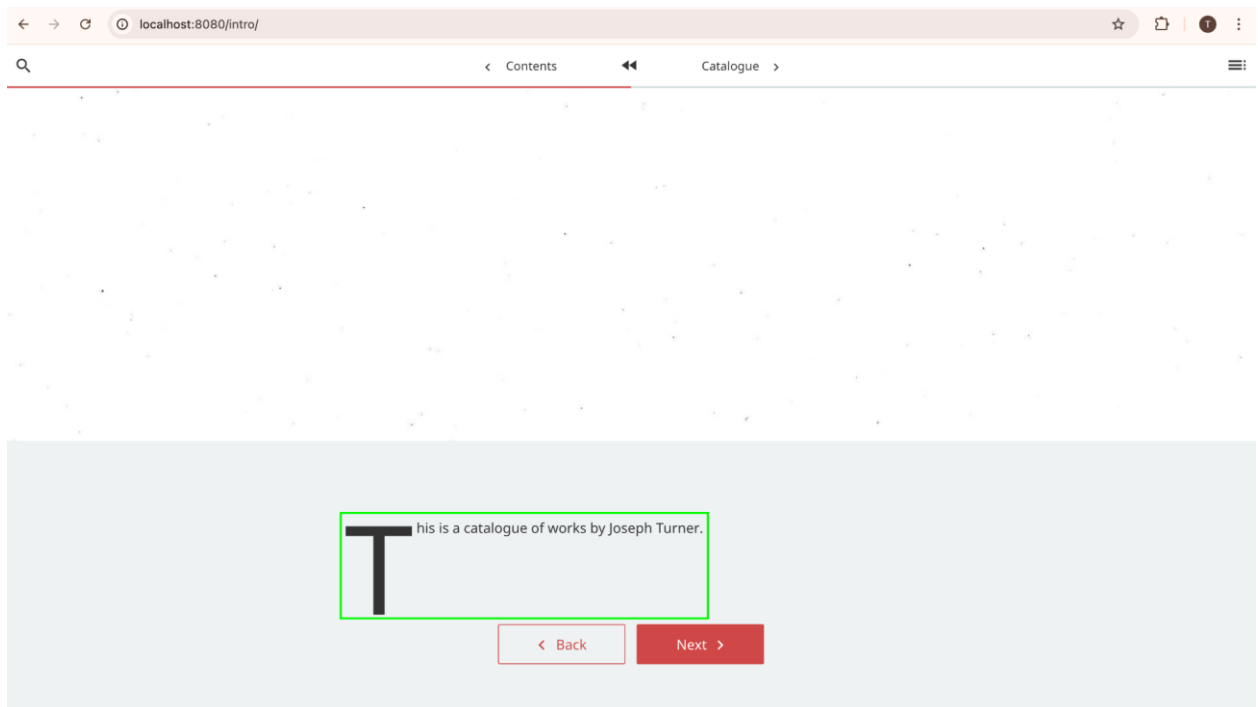
3. Save the file and view the changes

Steps:

- Save the intro.md file
- Go to the introduction page of the project in the browser and view the changes. To get there from the title page, use the arrow at the top of the page or the menu in the top right



Note: If you do not see your changes, try restarting the preview by stopping the current preview in the console (ctrl + c) and rerunning the **'quire preview'** command

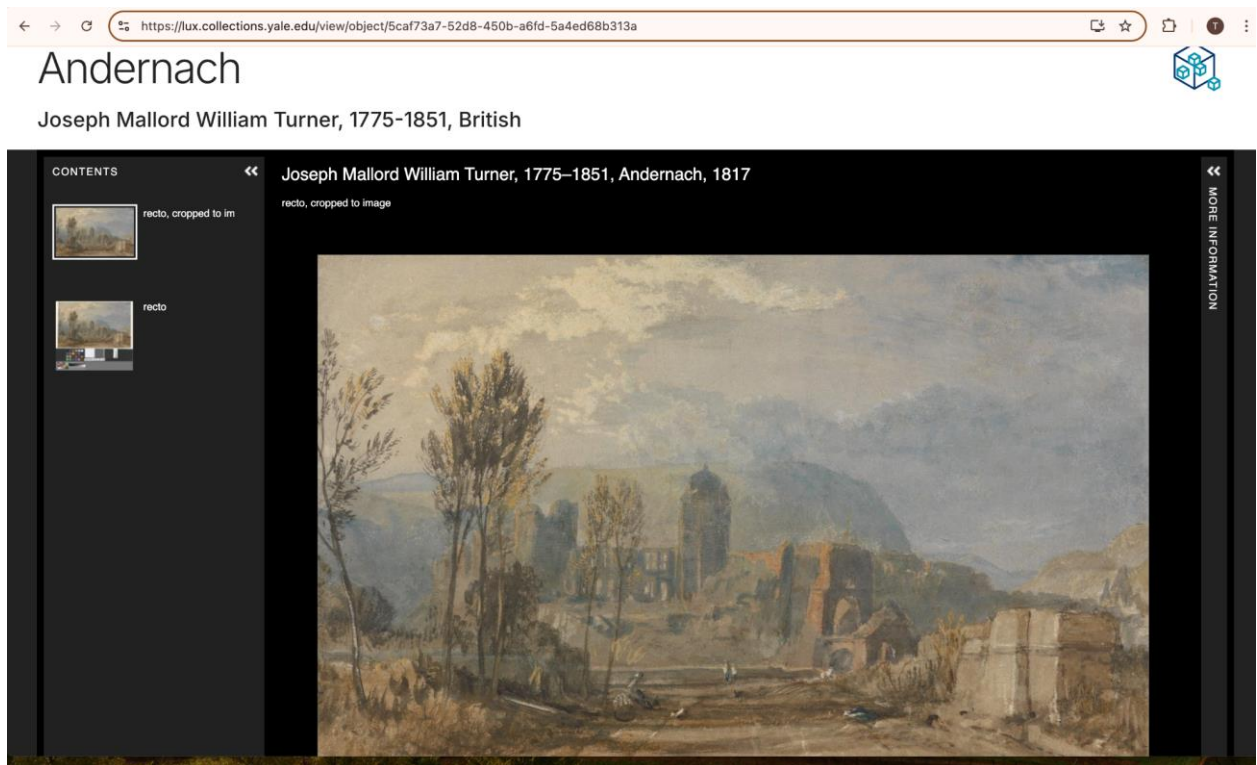


Exercise 4: Add a figure

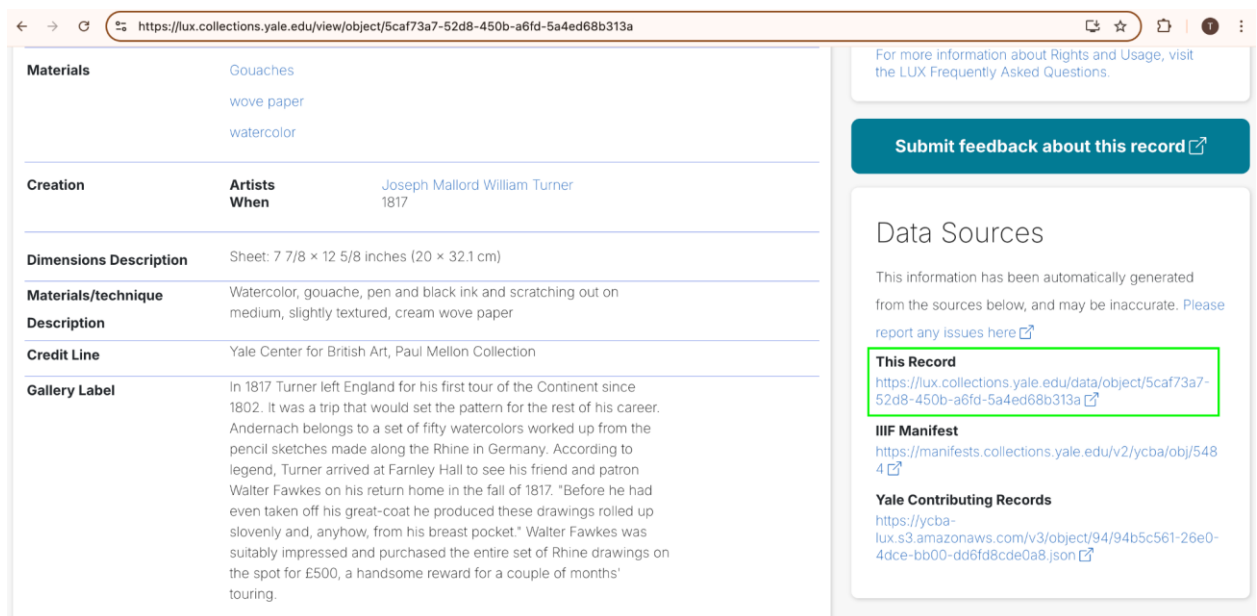
Steps:

- Go to the Yale LUX page for your first chosen object and locate the link to its Linked Art record (LUX homepage: <https://lux.collections.yale.edu/>)

In this is example, we will add a figure of the painting 'Andernach' by Joseph Turner to figures.yaml
<https://lux.collections.yale.edu/view/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a>



- b. Scroll down the page. The Linked Art record will be in the 'Data Sources' section on the right

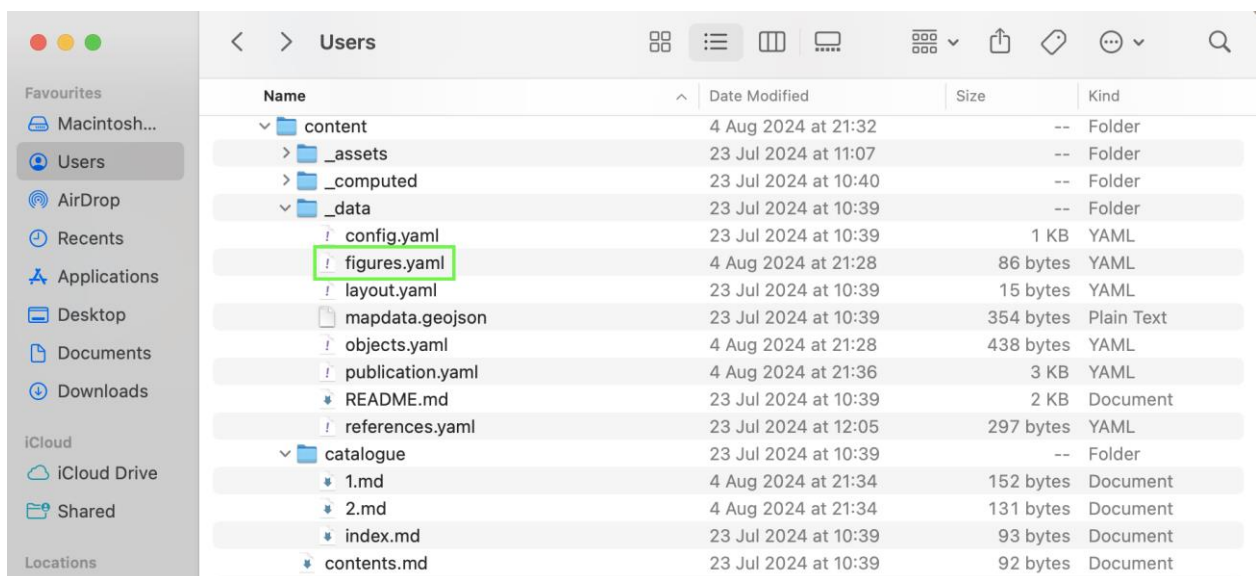


- c. Copy the URI of the record
- d. Stop the quire preview by pressing ctrl + c in the console
- e. Use the Linked Art record URI to add the painting to your project. Do this by running the command 'quire add figure <uri>' in the console

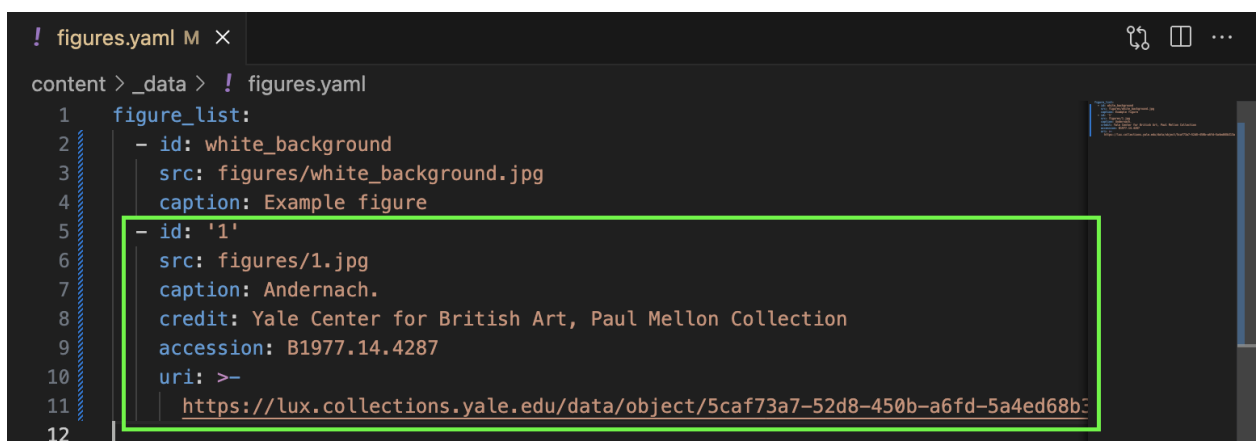
After running the command, the figure has been added to figures.yaml with the ID '1'

```
quire_template — -zsh — 80x24
Last login: Wed Aug  7 07:34:36 on ttys000
engs2670@engs-30935 ~ % cd quire_template
engs2670@engs-30935 quire_template % quire add figure https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a
Downloading image to project's figures folder...
Figure added to figures.yaml successfully. Figure ID: 1.
engs2670@engs-30935 quire_template %
```

f. Open the figures.yaml file in the 'quire_template/content/_data' folder

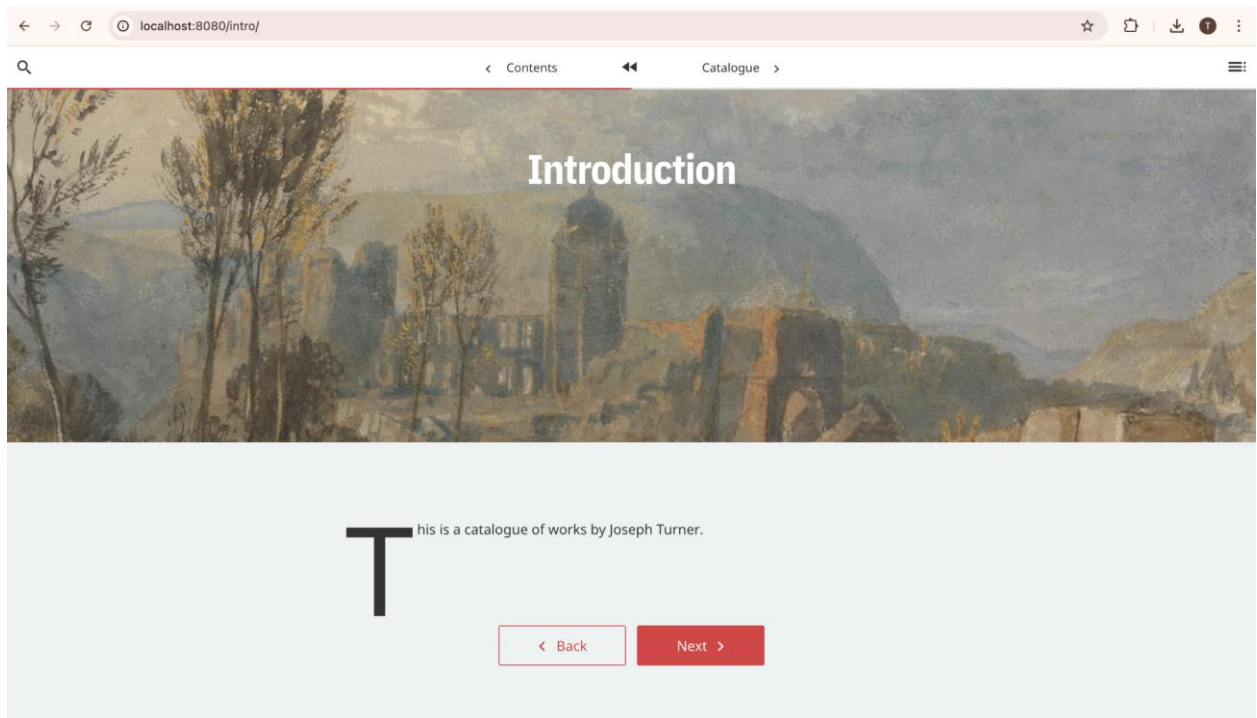


You will find your new figure at the bottom of the figure_list



g. Change the image used in the intro.md file from 'white_background.jpg' to '1.jpg', save the file, and see the change in the Quire preview

```
intro.md M x
content > intro.md
1 ---
2 title: Introduction
3 subtitle:
4 layout: splash
5 order: 10
6 image: figures/1.jpg
7 ---
8 This is a catalogue of works by Joseph Turner.
9
```



Exercise 5: Add an object

Figures are images that you can use in your project that come with some information about the image from the Linked Art record. The key difference between figures and objects is that objects also include data about the artwork, such as the name of the artist who created it, the year it was created, the materials used, etc.

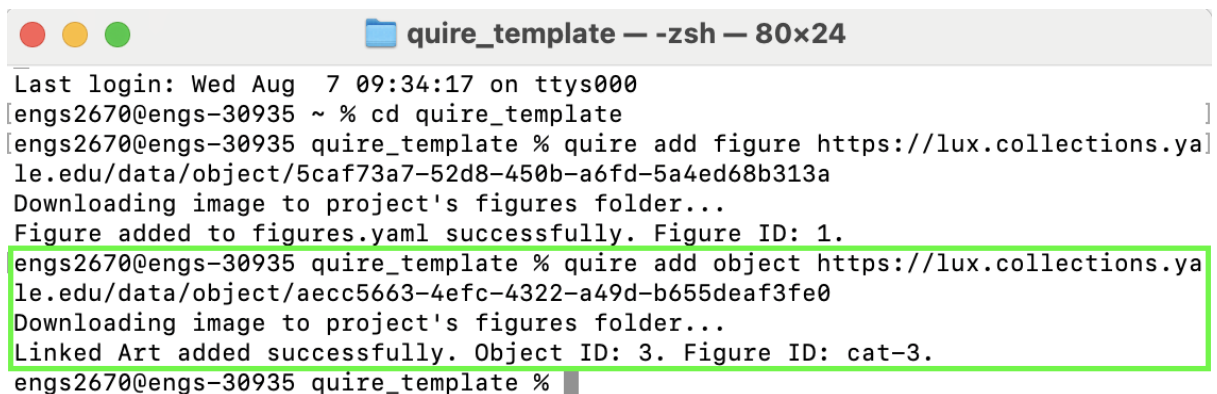
Steps:

- Go to the Yale LUX page for your second chosen object and locate the link to its Linked Art record

For our example, we will use the painting
'Vesuvius in Eruption' by Joseph Turner found
here:
<https://lux.collections.yale.edu/view/object/aecc5663-4efc-4322-a49d-b655deaf3fe0>

- b. Find the object's Linked Art record (as above)
- c. Use the Linked Art record URI to add the object's data to objects.yaml. Do this by running the command '**quire add object <uri>**' in the console

The message in the console lets us know that
Linked Art has been added successfully, and
provides the object ID and figure ID.



```
Last login: Wed Aug 7 09:34:17 on ttys000
[engs2670@engs-30935 ~ % cd quire_template
[engs2670@engs-30935 quire_template % quire add figure https://lux.collections.ya
le.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a
Downloading image to project's figures folder...
Figure added to figures.yaml successfully. Figure ID: 1.
[engs2670@engs-30935 quire_template % quire add object https://lux.collections.ya
le.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3fe0
Downloading image to project's figures folder...
Linked Art added successfully. Object ID: 3. Figure ID: cat-3.
engs2670@engs-30935 quire_template % █
```

Here is the new object in objects.yaml:

Note: The Linked Art in Quire extension is
designed to prioritize the retrieval of names in
the Linked Art record that are classified as an
English language version of a primary name. In
this example, there were two such names in the
record: 'Joseph Mallord William Turner' and
'Turner, Joseph Mallord William'. You can edit
anything in the yaml files, including the data that
has been retrieved by the extension. For
example, when more than one name is
retrieved, the project author can simply delete
the names they do not want to use.

- d. Open objects.yaml in the '**quire_template/content/_data**' folder

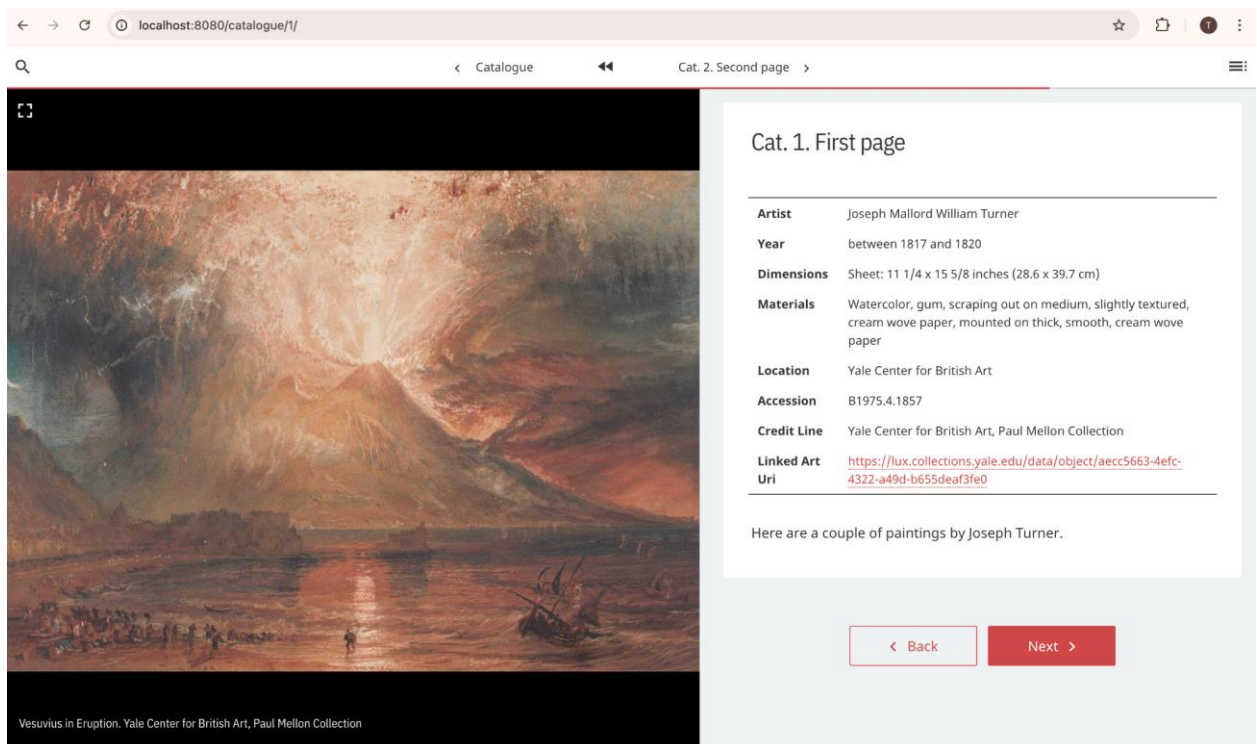
```
! objects.yaml M X
content > _data > ! objects.yaml
10 object_list:
19   - id: 2
20     title: Example object 2
21     artist: Artist name
22     year: Year created
23     medium: Materials used
24     dimensions: _cm x _cm
25     figure:
26       - id: white_background
27   - id: 3
28     title: Vesuvius in Eruption
29     artist: Joseph Mallord William Turner, Turner, Joseph Mallord William
30     year: between 1817 and 1820
31     dimensions: 'Sheet: 11 1/4 x 15 5/8 inches (28.6 x 39.7 cm)'
32     materials: >-
33       Watercolor, gum, scraping out on medium, slightly textured, cream wove
34       paper, mounted on thick, smooth, cream wove paper
35     location: Yale Center for British Art
36     accession: B1975.4.1857
37     credit line: Yale Center for British Art, Paul Mellon Collection
38     linked art uri: >-
39       https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3
40     figure:
41       - id: cat-3
42
```

And here is the corresponding figure in figures.yaml:

```
! figures.yaml M X
content > _data > ! figures.yaml
1 figure_list:
2   - id: white_background
3     src: figures/white_background.jpg
4     caption: Example figure
5   - id: '1'
6     src: figures/1.jpg
7     caption: Andernach.
8     credit: Yale Center for British Art, Paul Mellon Collection
9     accession: B1977.14.4287
10    uri: >-
11      https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b5
12  - id: cat-3
13    src: figures/cat-3.jpg
14    caption: Vesuvius in Eruption.
15    credit: Yale Center for British Art, Paul Mellon Collection
16    accession: B1975.4.1857
17    uri: >-
18      https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3
19
```

- e. Change the object used in the 1.md file from '1' to '3'. You can also write about the object below, the same way you did for the introduction. Save the 1.md file and see the change in the Quire preview

```
1  --|
2  label: Cat. 1
3  title: First page
4  short_title:
5  layout: entry
6  order: 101
7  presentation: side-by-side
8  object:
9    - id: 3
10  ---
11
12  Here are a couple of paintings by Joseph Turner.
```



Exercise 6: Add a figure to an existing object

Quire objects can have more than one figure.
This provides a way for users to organize
artworks by artist, theme, etc. For our example,
we will make our object have two figures of
artworks by Joseph Turner

Steps:

- h. Go to the Yale LUX page for your third chosen object and locate the link to its Linked Art record

In this example, we will add a figure of the painting 'Inverary Pier, Loch Fyne: Morning' by Joseph Turner to the object we created above
<https://lux.collections.yale.edu/view/object/d00915af-a9e1-4f2e-af96-74d2c878f74b>

- i. Copy the URI of the record and use it to add the figure to the object you created above. Do this by running the command '**quire add object.figure** <uri> <object id>' in the console

Note: there must be a space between the URI and the object ID. In this example, we are adding a figure to the object with the ID '3'

```
quire_template — -zsh — 80x24
Last login: Wed Aug  7 09:34:17 on ttys000
engs2670@engs-30935 ~ % cd quire_template
engs2670@engs-30935 quire_template % quire add figure https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a
Downloading image to project's figures folder...
Figure added to figures.yaml successfully. Figure ID: 1.
engs2670@engs-30935 quire_template % quire add object https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3fe0
Downloading image to project's figures folder...
Linked Art added successfully. Object ID: 3. Figure ID: cat-3.
engs2670@engs-30935 quire_template % quire add object.figure https://lux.collections.yale.edu/data/object/d00915af-a9e1-4f2e-af96-74d2c878f74b 3
Downloading image to project's figures folder...
Figure added to object in objects.yaml successfully. Object ID: 3. Figure ID: cat-3-b.
engs2670@engs-30935 quire_template %
```

Object '3' in objects.yaml now has two figures:
cat-3 and cat-3-b

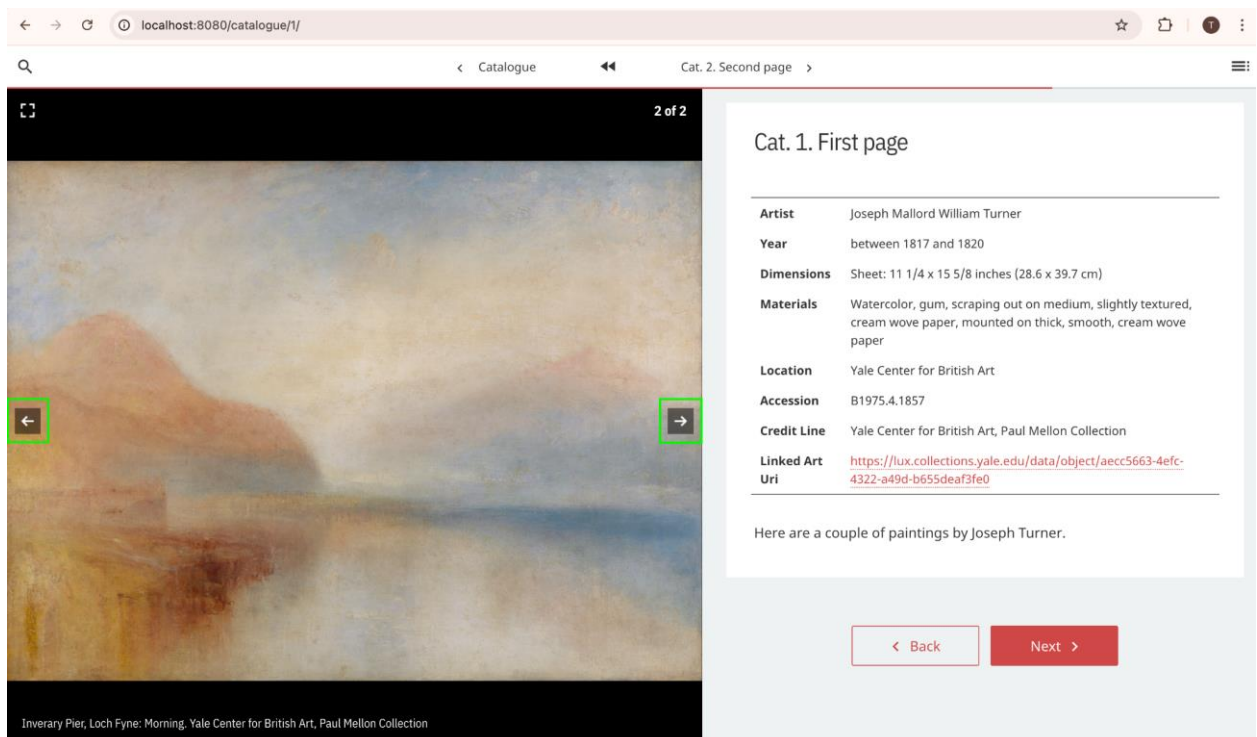
```
! objects.yaml M X
content > _data > ! objects.yaml
10 object_list:
11
12
13
14
15
16
17
18
19 - id: 2
20   title: Example object 2
21   artist: Artist name
22   year: Year created
23   medium: Materials used
24   dimensions: _cm x _cm
25   figure:
26     - id: white_background
27
28 - id: 3
29   title: Vesuvius in Eruption
30   artist: Joseph Mallord William Turner, Turner, Joseph Mallord William
31   year: between 1817 and 1820
32   dimensions: 'Sheet: 11 1/4 x 15 5/8 inches (28.6 x 39.7 cm)'
33   materials: >-
34     Watercolor, gum, scraping out on medium, slightly textured, cream wove
35     paper, mounted on thick, smooth, cream wove paper
36   location: Yale Center for British Art
37   accession: B1975.4.1857
38   credit line: Yale Center for British Art, Paul Mellon Collection
39   linked art uri: >-
40     https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3
41   figure:
42     - id: cat-3
43     - id: cat-3-b
```

And the figure has also been added to
figures.yaml


```
! figures.yaml M X
content > _data > ! figures.yaml
1 figure_list:
2   - id: white_background
3     src: figures/white_background.jpg
4     caption: Example figure
5   - id: '1'
6     src: figures/1.jpg
7     caption: Andernach.
8     credit: Yale Center for British Art, Paul Mellon Collection
9     accession: B1977.14.4287
10    uri: >-
11      https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b5
12  - id: cat-3
13    src: figures/cat-3.jpg
14    caption: Vesuvius in Eruption.
15    credit: Yale Center for British Art, Paul Mellon Collection
16    accession: B1975.4.1857
17    uri: >-
18      https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3
19  - id: cat-3-b
20    src: figures/cat-3-b.jpg
21    caption: 'Inverary Pier, Loch Fyne: Morning.'
22    credit: Yale Center for British Art, Paul Mellon Collection
23    accession: B1977.14.79
24    uri: >-
25      https://lux.collections.yale.edu/data/object/d00915af-a9e1-4f2e-af96-74d2c878f
26
```

j. Rerun the 'quire preview' command and see the change

Our object now has two figures we can flip through using the arrows



Bonus activities

1. Retrieve data for more than one object at a time
 - You can process multiple Linked Art URIs at a time by putting them in double quotes and separating them with a space in the command, e.g. 'quire add object "<uri1> <uri2> <uri3>" '
 - Find some more objects on LUX and give it a try
2. Retrieve data for all the objects featured in an exhibition
 - You can process all the objects that were featured in an exhibition using the Linked Art activity URI for the exhibition
 - The command is the same: 'quire add object <uri>'
 - When you run the command, an interaction will begin in the console. You will be asked whether you want to create a spreadsheet of the objects, process all the objects, or do both. If you choose to generate a spreadsheet, this will appear in your project folder ('quire_template' in our example)
 - Try it with the exhibition 'Turner and the Sublime'
<https://lux.collections.yale.edu/view/activity/bff2bc73-c45a-4fdf-8c1a-e38cf1dbe773> or find another to try it with
3. Create your own object or figure IDs, or use accession numbers
 - Users may want to give their objects and figures meaningful IDs so that when they see them in the markdown they know immediately what they are.
 - When you add an object or figure using the Linked Art in Quire extension and you do not add an ID to the command, an ID is automatically generated using the lowest available integer or earliest available letter.
 - But the ID can be anything you want. Just type it at the end of your command, e.g. 'quire add object <uri> my-ID'
 - You can also make the accession number the ID. If you type the word 'accession' at the end of the command, the accession number will be automatically retrieved from the Linked Art record and used as the ID, e.g. 'quire add object <uri> accession'
 - Find some objects on LUX and give it a try
4. Resize an image
 - The Linked Art in Quire extension retrieves the full-size image of the object by default. These are sent to the 'images' folder at the directory 'quire_template/content/assets/images/figures'
 - These images can be large, and sometimes Quire users would like the option to resize them so that they have a smaller file size. Once downloaded, the images cannot be resized using the extension. But they can be resized upon retrieval with the extension using the '--resize' option.
 - Find an object on LUX and try out the resize option by adding '--resize' to your command, e.g. 'quire add object <uri> --resize'. This will begin an interaction in the console. Follow the instructions to resize the image
5. Add a second image of the same object to a Quire object

- The Linked Art extension for Quire currently only retrieves the first available image of a given object. Quire users may want to have more than one image of the same object in their Quire object (e.g. different angles, X-ray, etc.)
- This can be done by saving the image you want to add, placing the image file in the 'quire_template/content/_assets/images/figures' folder, adding an entry for the image in figures.yaml, and adding the ID of the figure entry to the 'figure' section of the Quire object in objects.yaml