

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 -v 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

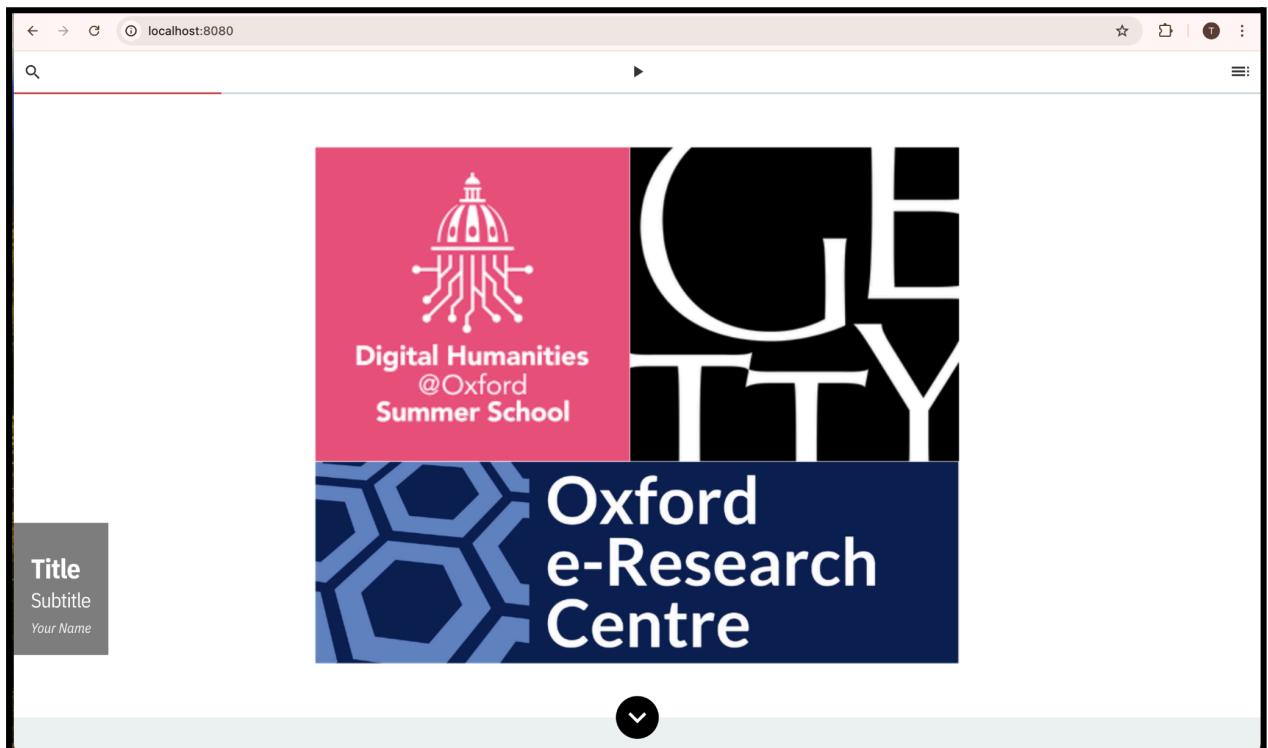
81      :last-child, section > :last-child {
82        margin-bottom: 0;
83      }
     nested rule
...
90      widows: 2;
     ^^^^^^^^^ declaration

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.

Name	Date Modified	Size	Kind
quire_template	23 Jul 2024 at 10:48		Folder
_ epub	4 Aug 2024 at 21:33		Folder
_ includes	23 Jul 2024 at 10:40		Folder
_ layouts	23 Jul 2024 at 10:40		Folder
_ lib	23 Jul 2024 at 10:40		Folder
_ plugins	23 Jul 2024 at 10:40		Folder
_ site	23 Jul 2024 at 10:48		Folder
CHANGELOG.md	23 Jul 2024 at 10:40	4 KB	Document
content	4 Aug 2024 at 21:32		Folder
_ assets	23 Jul 2024 at 11:07		Folder
_ computed	23 Jul 2024 at 10:40		Folder
_ data	23 Jul 2024 at 10:39		Folder
config.yaml	23 Jul 2024 at 10:39	1 KB	YAML
figures.yaml	4 Aug 2024 at 21:28	86 bytes	YAML
layout.yaml	23 Jul 2024 at 10:39	15 bytes	YAML
mapdata.geojson	23 Jul 2024 at 10:39	354 bytes	Plain Text
objects.yaml	4 Aug 2024 at 21:28	438 bytes	YAML
publication.yaml	4 Aug 2024 at 21:36	3 KB	YAML
README.md	23 Jul 2024 at 10:39	2 KB	Document
references.yaml	23 Jul 2024 at 12:05	297 bytes	YAML
catalogue	23 Jul 2024 at 10:39		Folder
1.md	4 Aug 2024 at 21:34	152 bytes	Document
2.md	4 Aug 2024 at 21:34	131 bytes	Document

- 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

```

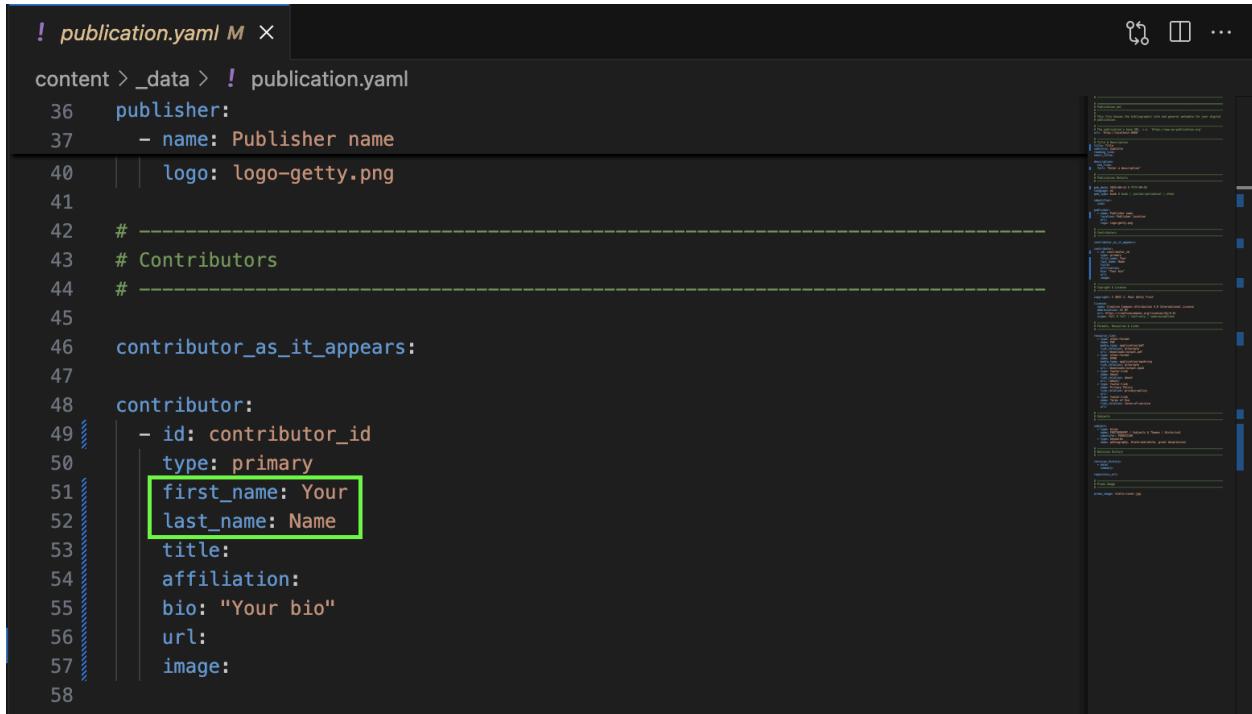
! publication.yaml M ×
content > _data > ! publication.yaml
1  # -----
2
3  # =====
4  # Publication.yaml
5  #
6  #
7  # This file houses the bibliographic info and general metadata for your digital
8  # publication.
9
10 #
11 # The publication's base URL, i.e. 'https://www.my-publication.org'
12 url: '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



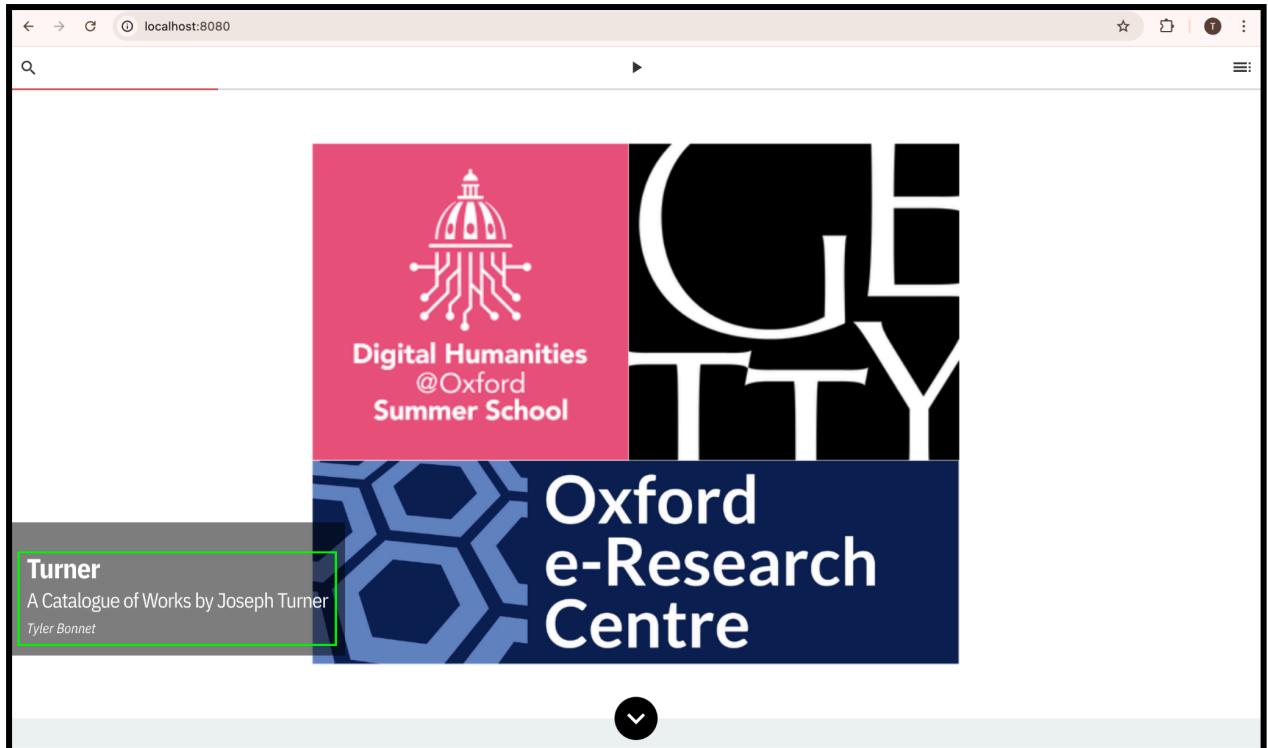
```
! publication.yaml M X
content > _data > ! publication.yaml
36   publisher:
37     - name: Publisher name
38
39     logo: logo-getty.png
40
41
42 # -----
43 # Contributors
44 #
45
46 contributor_as_it_appears:
47
48 contributor:
49   - id: contributor_id
50     type: primary
51     first_name: Your
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 ‘**quire 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

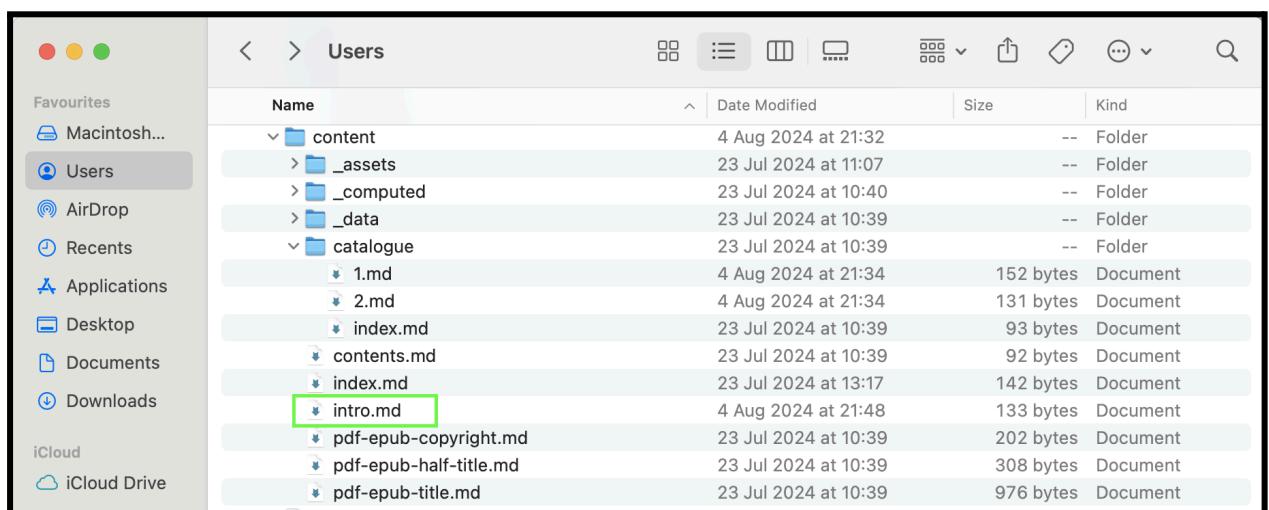


Exercise 3: Write a brief introduction

1. Open the intro.md file

Steps:

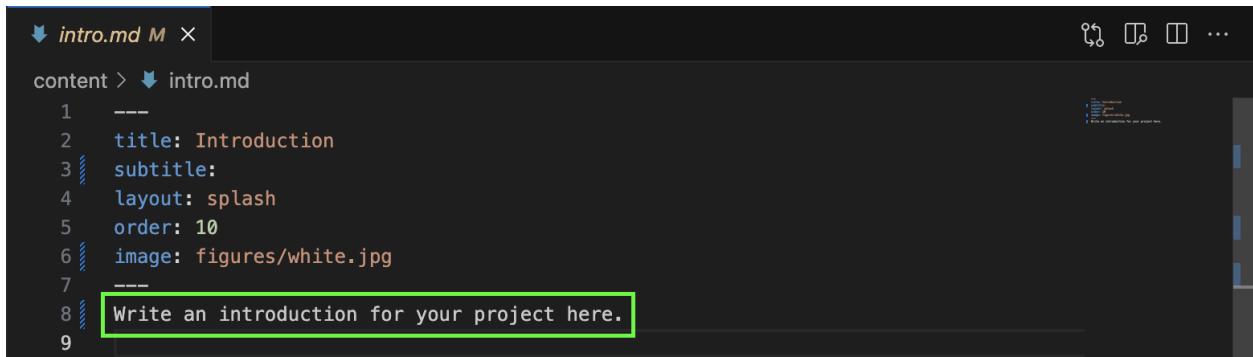
- a. Open the intro.md file in the 'quire_template/content/' folder



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

Steps:

- Find where it says 'Write an introduction for 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)



```

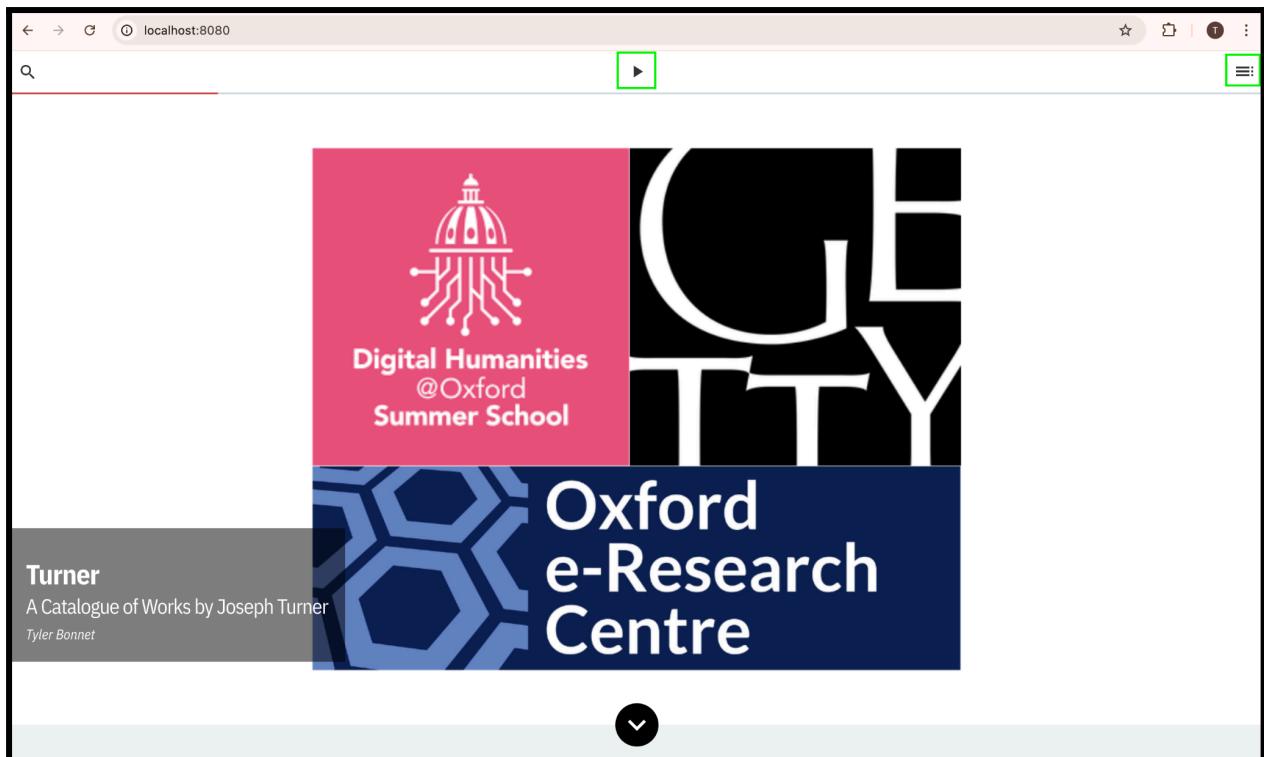
↓ intro.md M ×
content > ↓ intro.md
1 ---
2   title: Introduction
3   subtitle:
4   layout: splash
5   order: 10
6   image: figures/white.jpg
7 ---
8   Write an introduction for your project here.
9

```

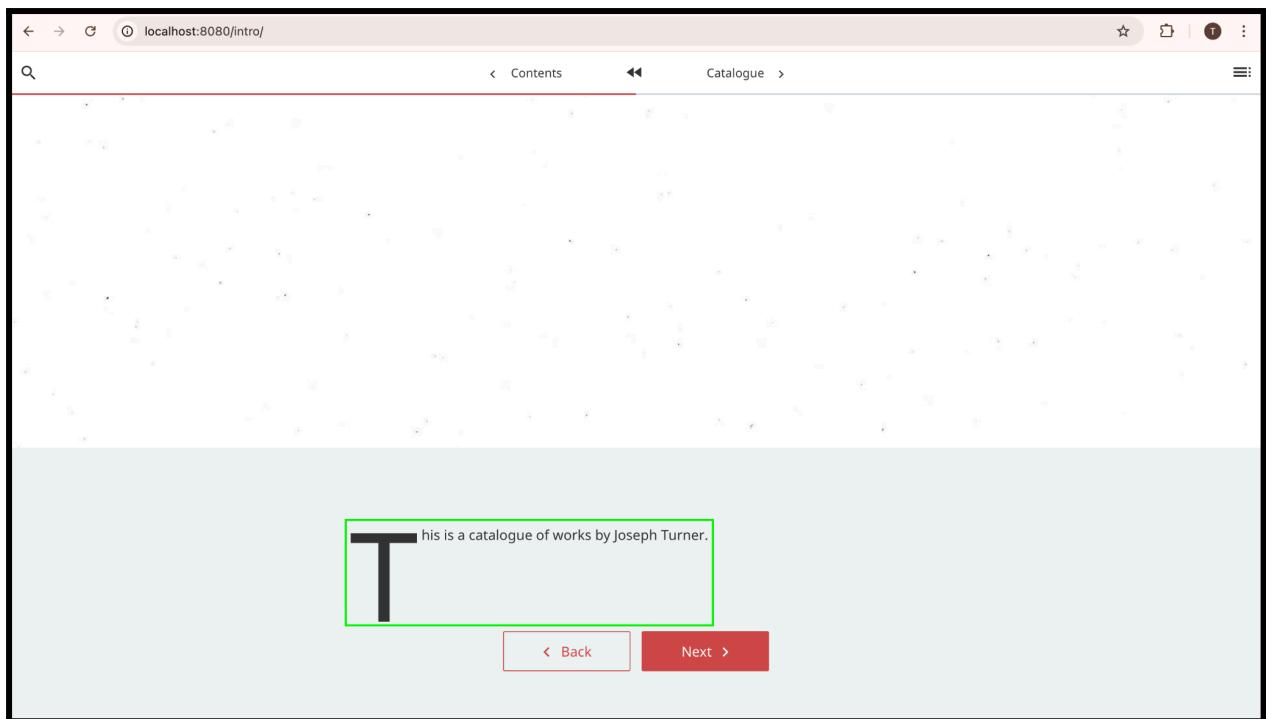
- Save the file and view the changes

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

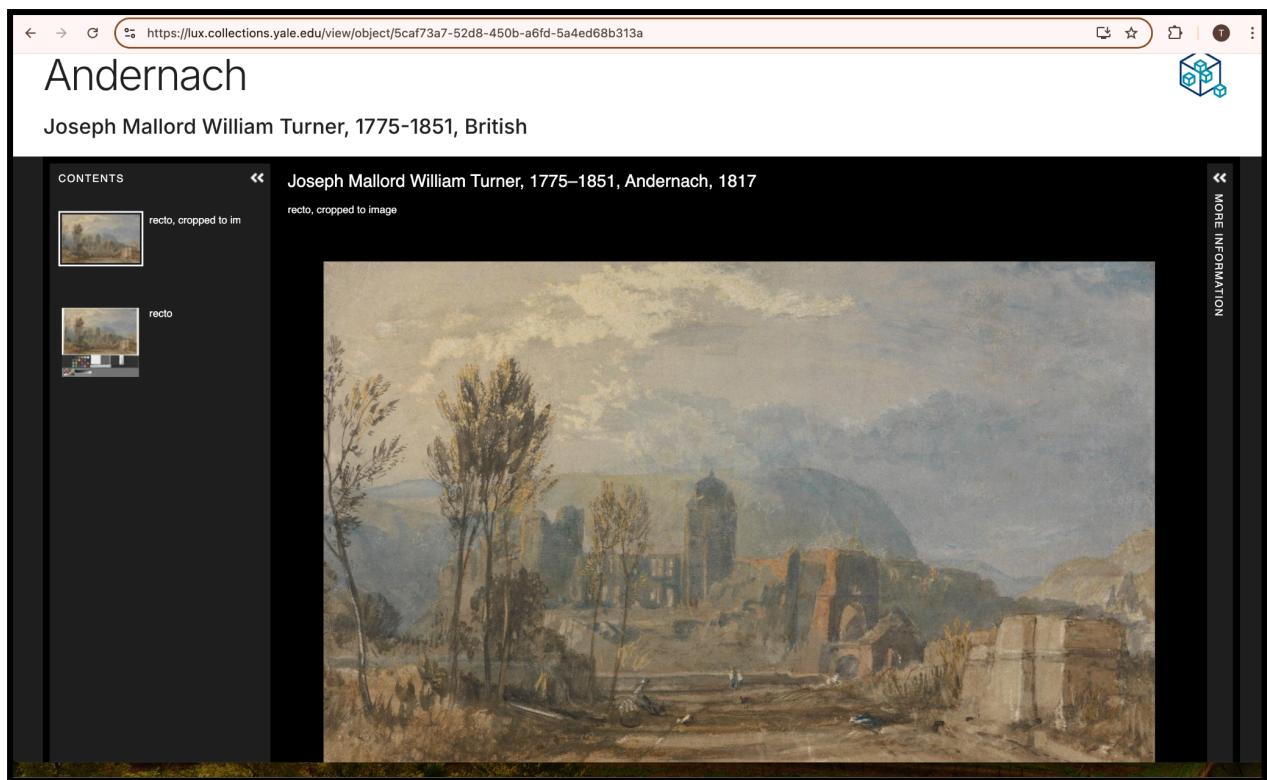


Exercise 4: Add a figure from a Linked Art resource

Steps:

- a. 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 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>



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

Materials	Gouaches wove paper watercolor
Creation	Artist Joseph Mallord William Turner When 1817
Dimensions Description	Sheet: 7 7/8 x 12 5/8 inches (20 x 32.1 cm)
Materials/technique	Watercolor, gouache, pen and black ink and scratching out on medium, slightly textured, cream wove paper
Description	
Credit Line	Yale Center for British Art, Paul Mellon Collection
Gallery Label	In 1817 Turner left England for his first tour of the Continent since 1802. It was a trip that would set the pattern for the rest of his career. Andernach belongs to a set of fifty watercolors worked up from the pencil sketches made along the Rhine in Germany. According to legend, Turner arrived at Farnley Hall to see his friend and patron Walter Fawkes on his return home in the fall of 1817. "Before he had even taken off his great-coat he produced these drawings rolled up slovenly and, anyhow, from his breast pocket." Walter Fawkes was suitably impressed and purchased the entire set of Rhine drawings on the spot for £500, a handsome reward for a couple of months' touring.

For more information about Rights and Usage, visit the LUX Frequently Asked Questions.

Submit feedback about this record

Data Sources

This information has been automatically generated from the sources below, and may be inaccurate. Please report any issues here.

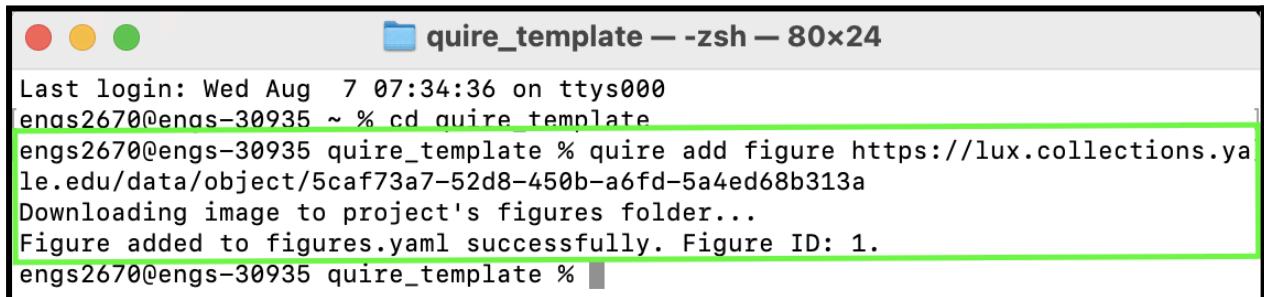
This Record
<https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a>

IIF Manifest
<https://manifests.collections.yale.edu/v2/ycba/obj/5484>

Yale Contributing Records
<https://ycba-lux.s3.amazonaws.com/v3/object/94/94b5c561-26e0-4dce-bb00-dd6fd8cde0a8.json>

- Copy the URI of the record
- Stop the quire preview by pressing **ctrl + c** in the console
- 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'

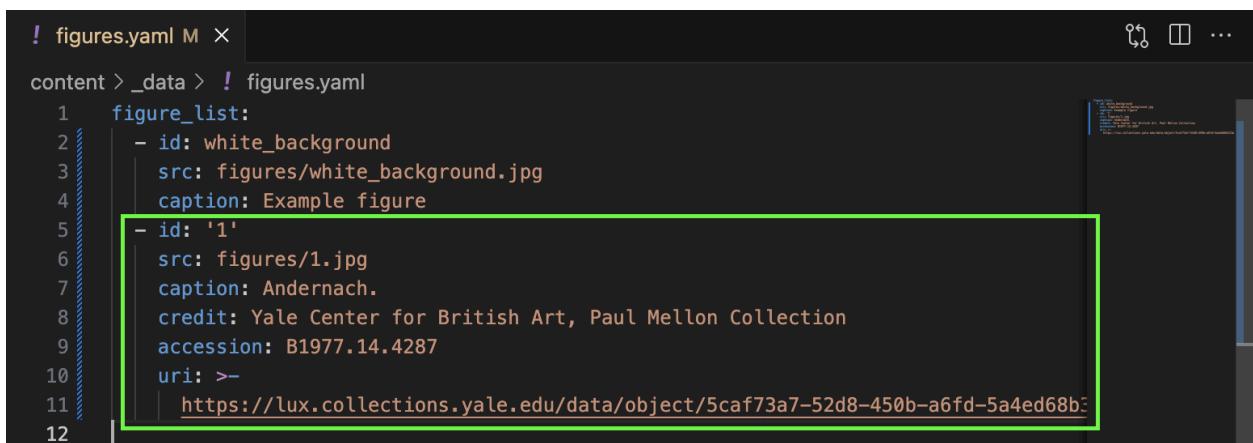


```
Last login: Wed Aug  7 07:34:36 on ttys000
enas2670@enas-30935 ~ % cd quire_template
engs2670@engs-30935 quire_template % quire add figure https://lux.collections.yale.edu/data/object/5caf73a7-52d8-450b-a6fd-5a4ed68b313a
Downloading image to project's figures folder...
Figure added to figures.yaml successfully. Figure ID: 1.
engs2670@engs-30935 quire_template %
```

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



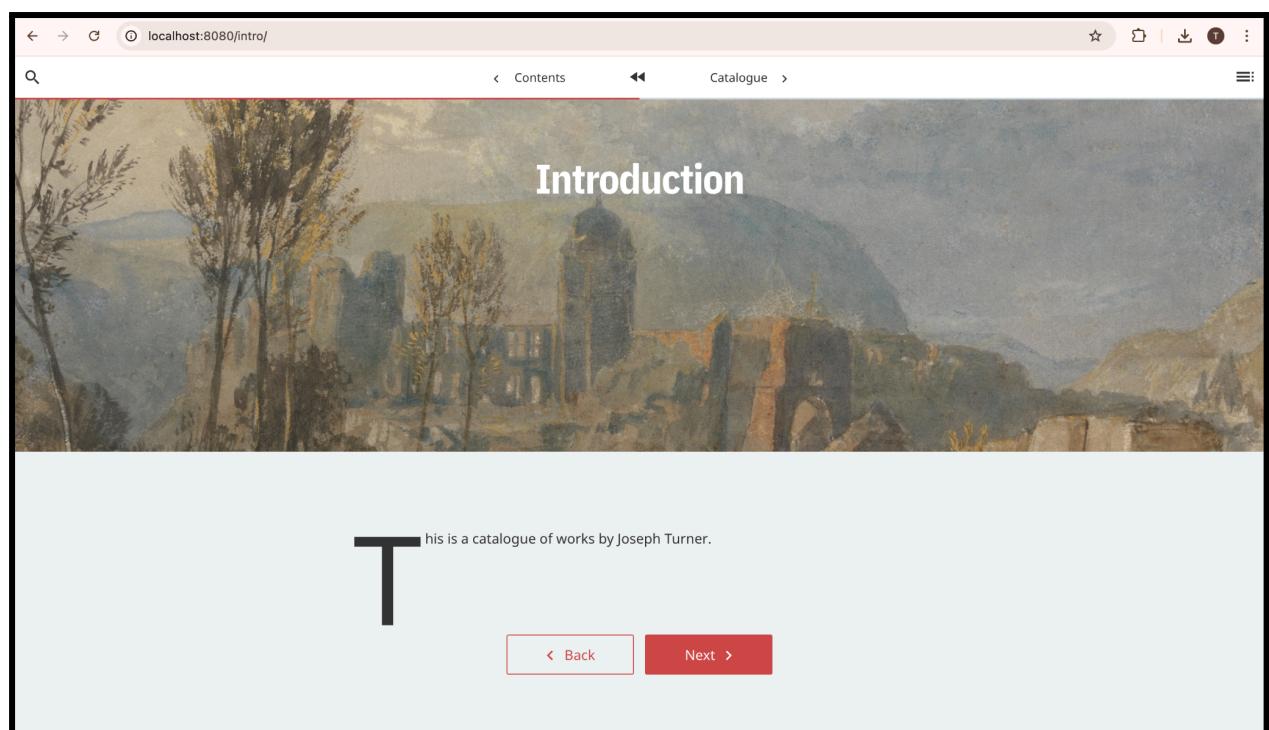
You will find your new figure at the bottom of the figure_list



```
! 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-5a4ed68b313a
```

- 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 from a Linked Art resource

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:

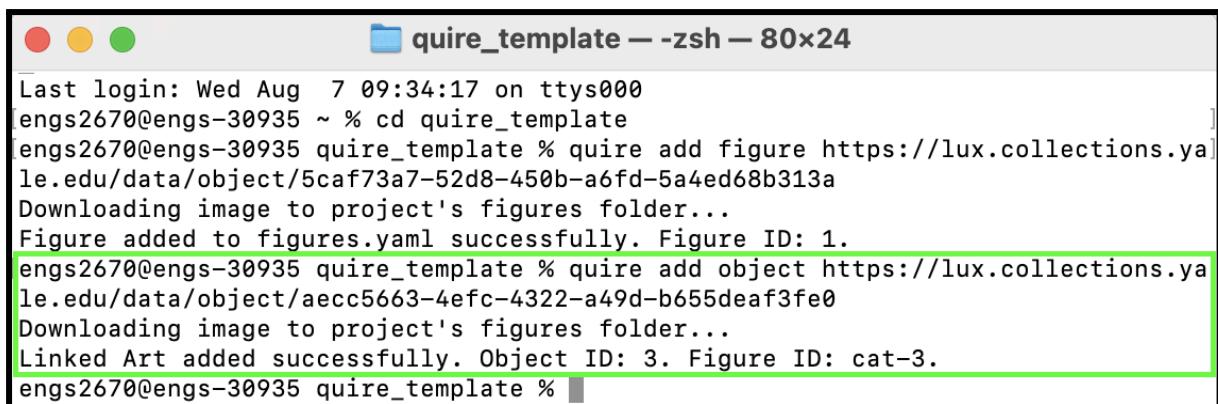
- Go to the Yale LUX page for your second chosen object and locate the link to its Linked Art record

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.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 %
```

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 ×
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 ×
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-5a4ed68b3
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.

```

The screenshot shows a web browser window with the URL localhost:8080/catalogue/1/. The page is titled "Cat. 1. First page". On the left, there is a large image of a painting titled "Vesuvius in Eruption" by Joseph Mallord William Turner. To the right of the image is a table of metadata:

Artist	Joseph Mallord William Turner
Year	between 1817 and 1820
Dimensions	Sheet: 11 1/4 x 15 5/8 inches (28.6 x 39.7 cm)
Materials	Watercolor, gum, scraping out on medium, slightly textured, cream wove paper, mounted on thick, smooth, cream wove paper
Location	Yale Center for British Art
Accession	B1975.4.1957
Credit Line	Yale Center for British Art, Paul Mellon Collection
Linked Art Uri	https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf3fe0

Below the table, a green box contains the text: "Here are a couple of paintings by Joseph Turner." At the bottom of the page are two red buttons: "Back" and "Next >".

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

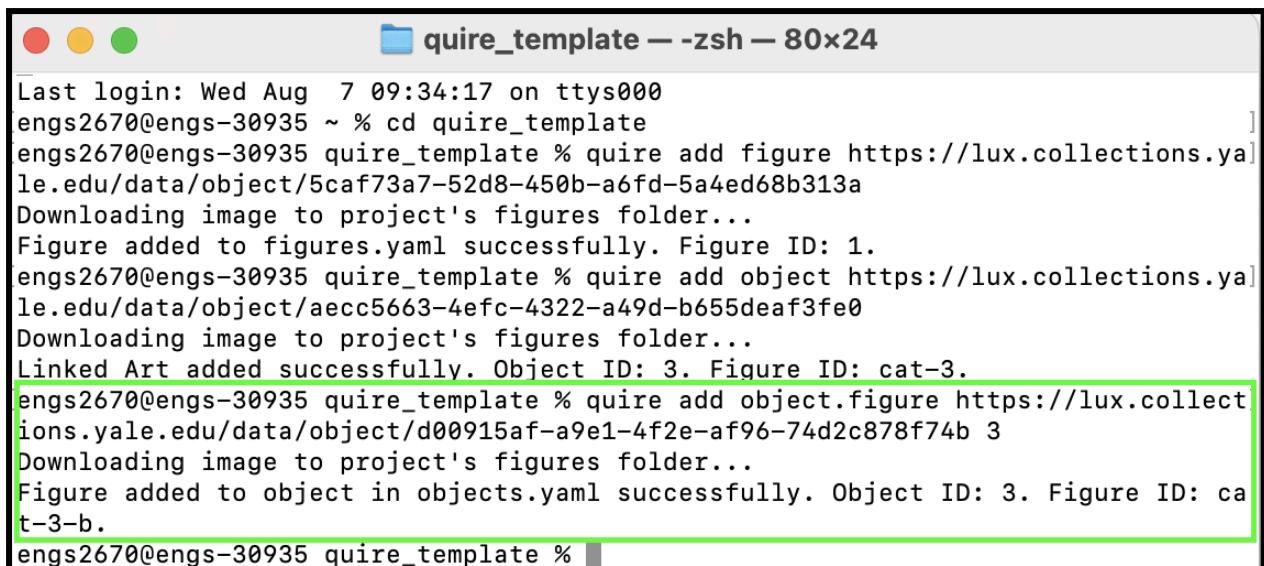
Steps:

- 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>

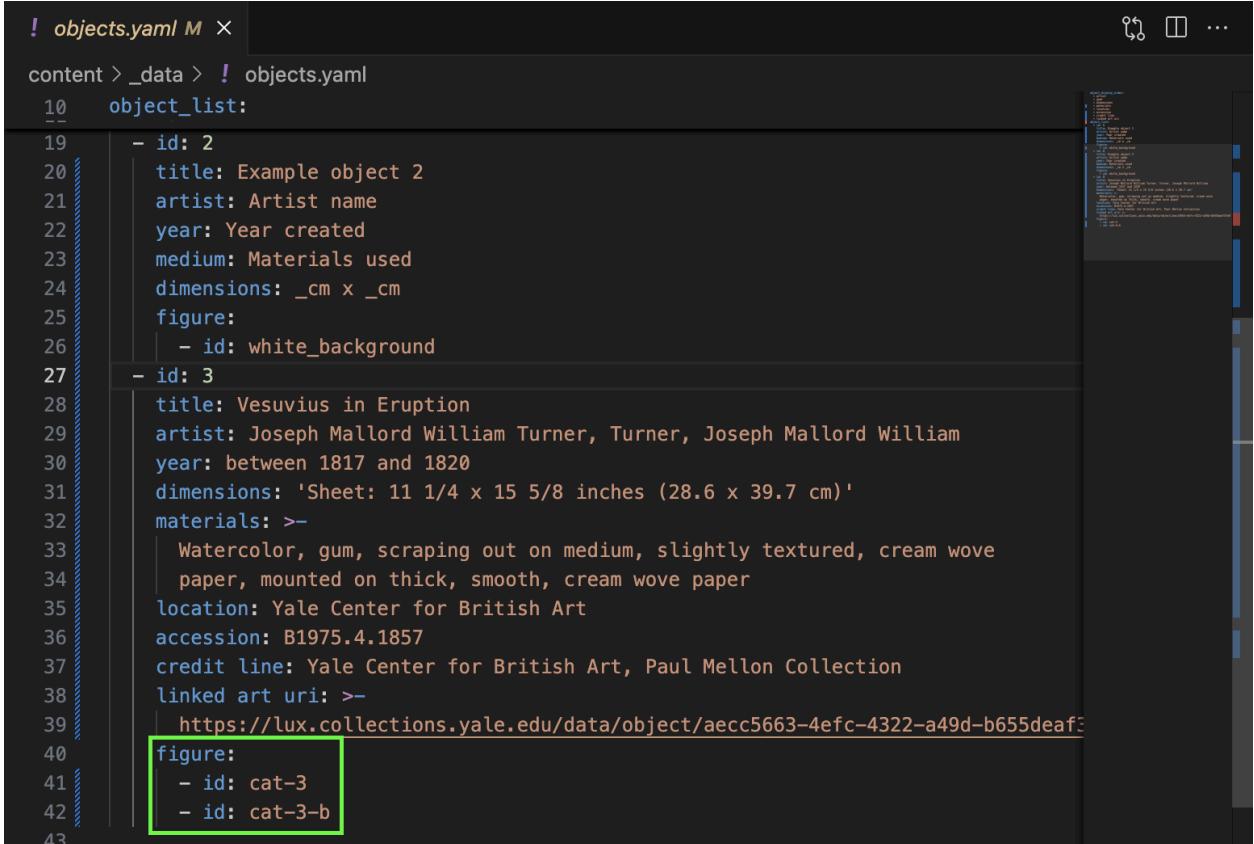
- i. Copy the URI of the record and use it to add the figure to the object you created above. Do this by running the command ‘**quire add object.figure <uri> <object id>**’ in the console

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’



```
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     - id: 2
12       title: Example object 2
13       artist: Artist name
14       year: Year created
15       medium: Materials used
16       dimensions: _cm x _cm
17       figure:
18         - id: white_background
19
20     - id: 3
21       title: Vesuvius in Eruption
22       artist: Joseph Mallord William Turner, Turner, Joseph Mallord William
23       year: between 1817 and 1820
24       dimensions: 'Sheet: 11 1/4 x 15 5/8 inches (28.6 x 39.7 cm)'
25       materials: >-
26         Watercolor, gum, scraping out on medium, slightly textured, cream wove
27         paper, mounted on thick, smooth, cream wove paper
28       location: Yale Center for British Art
29       accession: B1975.4.1857
30       credit line: Yale Center for British Art, Paul Mellon Collection
31       linked art uri: >-
32         https://lux.collections.yale.edu/data/object/aecc5663-4efc-4322-a49d-b655deaf
33       figure:
34         - id: cat-3
35         - id: cat-3-b
```

And the figure has also been added to
figures.yaml

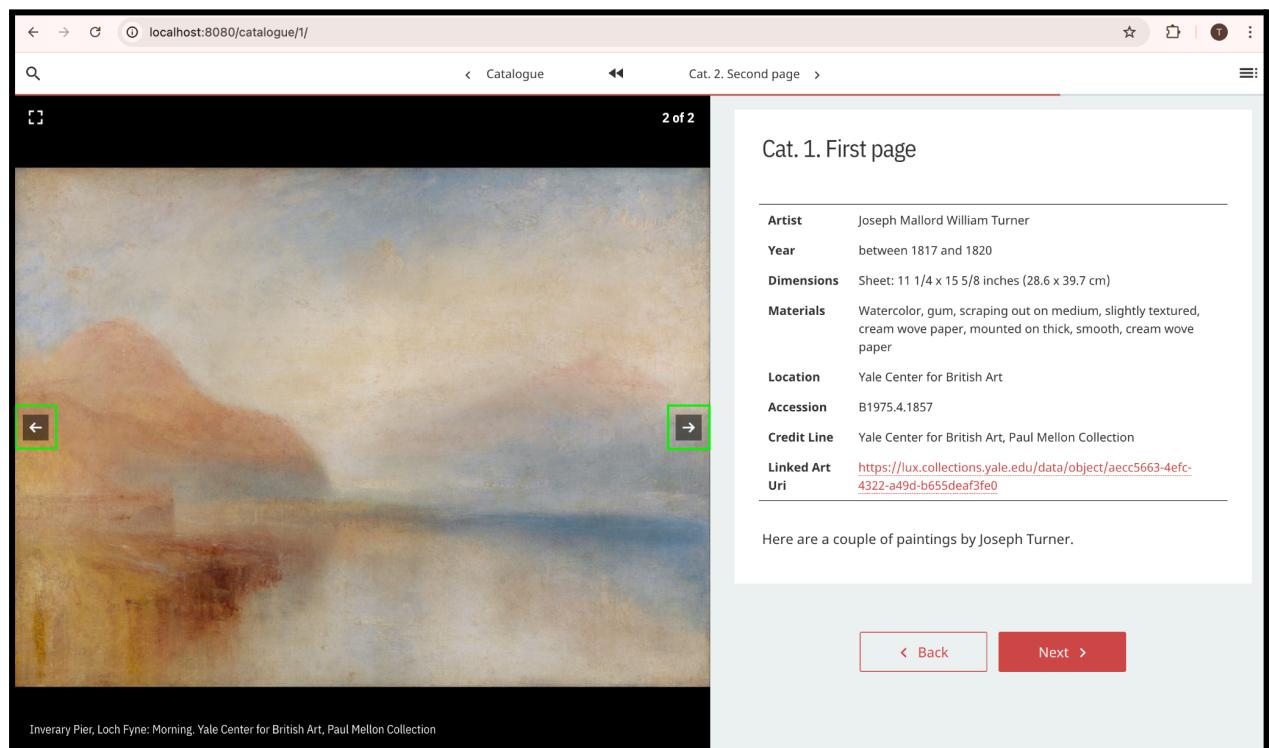
```

! 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-5a4ed68b3
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-af96-74d2c8781
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-e38cf1db_e773 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