# Acvancec Website features

# Other common features

#### **URLs**

The website will mirror your file structure, including subdirectories

/about.qmd

example.com/about.html

/research/project1.qmd

example.com/research/project1.html

#### **Custom URLs**

What if you want nicer URLs?

example.com/about/ example.com/research/project1/

#### index.html

By convention, web servers treat index.html files in a special way.

example.com/about/

implicitly means

example.com/about/index.html

## index.qmd

If you want example.com/about/, put your about page in a folder named about and rename it to index.qmd.

/about.qmd
/about/index.qmd

cexample.com/about/

## **User-friendly URLs**

You could have a blog post like this (ew):

/2025-10-16\_blog-post-title.qmd

.

example.com/2025-10-16\_blog-post-title.html

Or like this (yay):

/blog/2025/10/16/blog-post-title/index.qmd

example.com/blog/2025/10/16/blog-post-title/

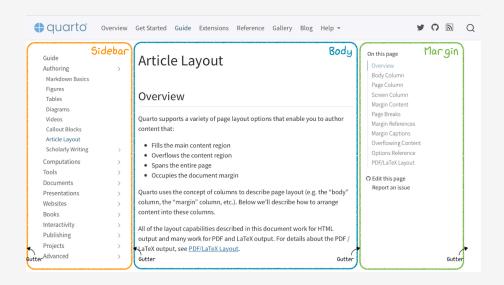
1. Make your about .qmd page appear at about/

## Page layout

#### **Page layouts**

- article: Default layout with main text area between 600px-900px
- full: Expand main text area into the sidebar and margin area if there's no content there
- custom: Provide your own HTML template for the main text area

#### **Component widths**



#### YAML settings

```
format:
  html:
    page-layout: article # or "full" or "custom"
    grid:
       sidebar-width: 300px
       body-width: 900px
       margin-width: 300px
       gutter-width: 1.5rem
```

- 1. Change the page layout settings for one of your page
- 2. Bonus task! Try using the Bootstrap CSS Grid layout system with page-layout: custom.
  - See the documentation here
  - See an IRL example here (and code here)

#### Advice:

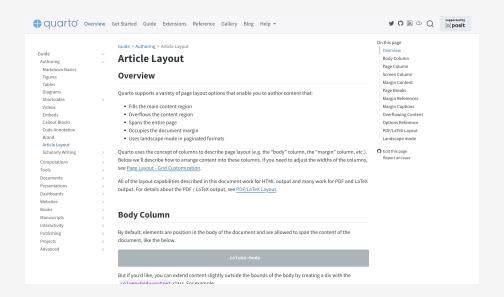
- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Advanced > Page Layout.

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## Article layout

Quarto offers *a ton* of article-specific layout options:

- Make content go into the margin
- Make content go across the whole page
- Put content in the margins



- 1. Add an image that spans across the whole page
- 2. Add some text to the margin

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Authoring > Article Layout.



## Re-running code

```
your-document.qmd
   title: "My Complex Document"
   format: html
  Here we run all our models and ther
   ```{r}
  # Intensive code!
12 ```{r}
13 # Intensive code!
14
15
16 ```{r}
17 # Intensive code!
```

- Sometimes you'll have a lot of code chunks that take a long time to run.
- Quarto will re-run these chunks each time you render the site.
- Good for reproducibility! Bad for speed!

## Freeze computational output

```
your-document.qmd
  title: "My Complex Document"
 3 format: html
 4 execute:
     freeze: auto
   Here we run all our models and then
10 ```{r}
11 # Intensive code!
12
13
14 ```{r}
15 # Intensive code!
16
17
```

Use freeze: auto to only re-run the code if the source file changes.

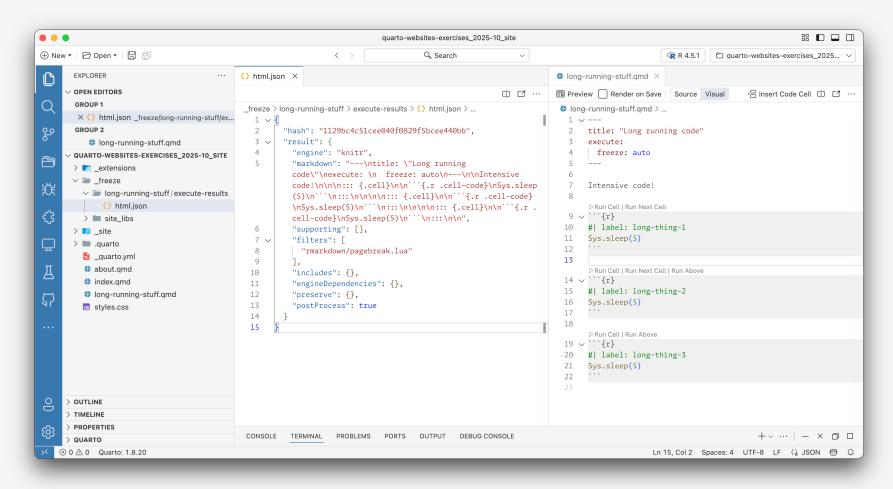
← Individual files or site-wide ↓

```
_quarto.yml

1 project:
2 type: website
3
4 execute:
5 freeze: auto
6
7 website:
8 title: "Example site"
```

## Freeze computational output

Code output is stored in \_freeze



## Freezing ≠ caching

- Freezing only stores the text of the code output.
- Changing the file will force a re-run.
- Consider caching if you don't want the code to re-run (see documentation):

```
execute:
cache: true
```



## **Automatic content**

We can automatically add all the pages in a folder to a sidebar:

```
_quarto.yml

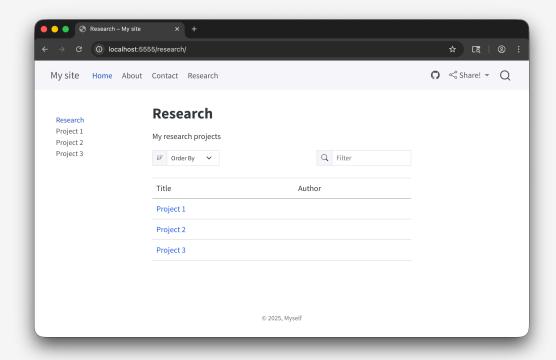
1 website:
2 sidebar:
3 contents:
4 - href: index.qmd
5 text: Home
6 - section: Research
7 contents: research/*
```

#### What if we want fancier automatic pages?

## Listing pages

```
research.qmd

1 ---
2 title: "Research"
3 listing:
4 contents: "*.qmd"
5 type: table
6 ---
```

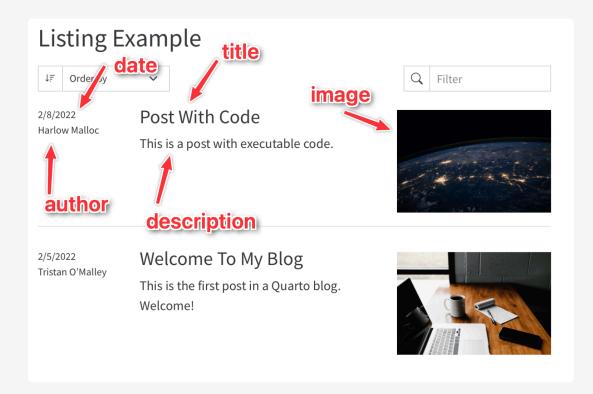


- 1. Edit research/index.qmd to be a listing page, showing all the pages in the research folder.
- 2. Experiment with changing the listing type to default, then table, then grid.

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Websites > Listing Pages.

## Metadata in listings



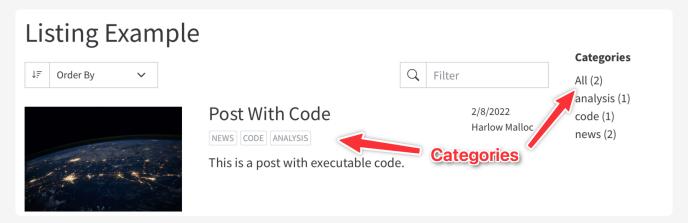
# post.qmd 1 --2 title: "Research" 3 author: "Your name" 4 description: "Something" 5 date: 2025-10-06 6 image: "img/thing.jpg" 7 ---

- 1. Add metadata to your different research . qmd files, including images. See how those are reflected in the listing page after rendering.
- 2. Bonus task! Modify how the listing page is sorted. Sort it by descending title.
  - See the documentation here
- 3. *Bonus task!* Change how the dates are shown in the listing page with the date-format option.
  - See the documentation here

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Websites > Cocument 10:00

## Categories



## **Enable categories in the listing settings**

```
listing-page.qmd

1 listing:
2 categories: true
```

## Specify categories in the document

```
post.qmd

1 ---
2 title: "Research"
3 categories:
4 - statistics
5 - r
6 - tidyverse
7 ---
```

- 1. Add categories to your different research .qmd files. See how those are reflected in the listing page after rendering.
- 2. *Bonus task!* Change the category lisit on the listing page to appear as a word cloud.
  - See the documentation here

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Websites > Document Listings > Categories.

## Extra advanced bonus stuff

#### Multiple listings

Include lists of different document types on the same page (example + code)

#### **Custom listings**

Go beyond default, table, and grid and make your own template (example + code)

#### **YAML lists**

Generate listings of items in a YAML file isntead of .qmd files (example)

#### Make a blog!

- 1. Create a new folder named blog with a file named index.qmd in it.
- 2. Make a few folders and files named blog/2025/10/16/thing/index.qmd, etc.
- 3. Add some fake content in the blog posts. Add images, titles, descriptions, etc.
- 4. Make the blog posts appear as a listing page at blog/index.qmd.
- 5. Add blog/index.qmd to your top navigation bar.

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at Quarto.org > Guide > Websites > Document
   Listings.



#### **Extensions**

Quarto has extensions that let you add custom...

- shortcodes
- filters
- document formats and templates
- brands

## **Shortcode extensions**

Font Awesome icons (site + extension)

Terminal
quarto add quarto-ext/fontawesome

Text	Output
{{< fa home >}}	<b>^</b>
{{< fa wand-magic-sparkles >}}	*/
{{< fa brands apple >}}	<b>É</b>
{{< fa brands r-project >}}	R
{{< fa globe >}}	<b>*</b>

#### Use in Markdown:

# my-document.qmd - {{< fa book >}} [Book page](https://www.bayesrulesbook.com/) - {{< fa person-chalkboard >}} [Teaching resources](https://bayes-rules.github. - {{< fa brands r-project >}} [R package](https://github.com/bayes-rules/bayesr - {{< fa brands youtube >}} Alicia Johnson, ["Bayes Rules! An Introduction to E

- Book page
- A Project page
- **R** package and package documentation
- Alicia Johnson, "Bayes Rules! An Introduction to Bayesian Modeling with R with Alicia Johnson", presentation for R-Ladies Philly on October 18, 2021

#### Use in YAML:

```
_quarto.yml
website:
    navbar:
    left:
        - text: "{{< fa person-chalkboard >}} Teaching"
            href: teaching.qmd
        - text: "{{< fa flask >}} Research"
            href: research.qmd
    right:
        - text: "{{< fa brands google-scholar >}}"
            href: "https://example.com"
```



## Filter extensions

#### **Preview Color (extension)**

Terminal

quarto add mcanouil/quarto-preview-colour

#### Enable in YAML, either for one page or site-wide:

#### filters:

- preview-colour

We use #1696d2 for Democrats and and #db2b27 for Republicans.

 $\downarrow$ 

We use #1696d2 for Democrats and and #db2b27 for Republicans.

## Lots of others!

There are hundreds of extensions: find them all at **Quarto.org > Extensions** or at **the Quarto Extensions directory**.

Here are some common extensions for websites specifically:

Extension	Description
Font Awesome	Include Font Awesome icons
Academicons	Include academicons icons
<b>Custom Callouts</b>	Go beyond Quarto's default note, warning, important, tip, and caution callouts
<b>Preview Color</b>	Add little circles to show hex colors
Embed PDFs	Easily embed PDF files in HTML documents
Downloadthis	Create download buttons

- 1. Install the Font Awesome extension in your website project.
- 2. Use Font Awesome shortcodes:
  - Include a Font Awesome icon in your navigation bar
  - Include a Font Awesome icon in the text of one of your pages
- 3. Install another Quarto extension and play around with it.

#### Advice:

- Don't try to make all these changes at once! Remember the workflow: edit, save, preview, repeat.
- Use the documentation at the Font Awesome extension page and Quarto.org > Extensions.

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# What's next?

#### Course outline

- V Intro to Quarto
- Creating basic websites
- Advanced website features
- Publishing
- Customization and branding
- Interactivity