

Lesson title

Author name

Introduction

Welcome to this page.

! Important

You can click on the **Code** button at the top right to see the page's source code.

Objectives

- ☐ Create a webpage
- ☐ Learn how to use metadata
- ☐ Add a link in the navigation bar
- ☐ Writing in markdown

1 Metadata

This file's metadata is displayed at the top between the ---.

1.1 Basic setup

```
---
title: "Title of this page"
description: "Description of this page"
author: "Author name"
format: html # because it's a webpage
from: markdown+emoji # you use markdown language
---
```

1.2 Advanced

1.2.1 Add a table of contents

With the following setup, all titles, i.e. lines beginning with `#` will be added to the table of contents.

```
format:
  html:
    toc: true                # Add a Table Of Contents
    toc-location: left
    toc-expand: 3            # 1 : only main titles ... 5 : highly detailed
```

If you want to remove a title from the table of contents, use the `unlisted` class :

```
# My title {.unlisted}
```

1.2.2 Self-numbering

If you use the following setup, each title will be numbered.

```
---
number-sections: true
---
```

If you don't want to number a part, use class `unnumbered`. In this page, *Introduction* and *Objectives* are unnumbered.

```
## Introduction {.unnumbered}
```

1.2.3 PDF export

The format of a web page is html.
But you can also export in pdf format.

```
format:
  html:
    ...
  pdf:
    margin-left: 2cm
    margin-right: 2cm
    margin-top: 2cm
    margin-bottom: 2cm
    shift-heading-level-by: -1
```

When you will render the quarto project, it will create a file `lesson.pdf` in addition of `lesson.html`.
On the webpage, a link will appear under the table of contents to download the pdf.

i Note

To perform this you have to install first tinytex : `quarto install tinytex`

2 Add a link in the navigation bar

The navigation bar is setup in the file `_quarto.yml`.

Look for `navbar` key, and then add a link to this page.

3 Markdown basics

For more information, you can see [this page](#)

3.1 Text format

bold - *italic* - ***italicbold*** - Script - ~~strike~~ - underline

Citation

It is also possible to add custom formatting by using the `style.css` file at the project root.

3.2 Table

More about [markdown table](#)

Table 1: French Departments

Code	Name	City
01	Ain	Bourg-en-Bresse
02	Aisne	Laon
03	Allier	Moulins
04	Alpes-de-Haute-Provence	Digne-les-Bains
05	Hautes-Alpes	Gap

3.3 List

- item 1
 - item1.1
- item 2
- ☐ item3 with checkbox

3.4 Columns

content of the first column

content of the second column

3.5 Figures and Videos



Figure 1: Stones

https://www.youtube.com/watch?v=tHKc-DBb_ME

3.6 Emoji

In this page, you can add *GitHub emojis*.


4 Advanced tools

4.1 Callout Blocks


You can easily highlight text using `callout` blocks.

 Note

Note that there are five types of callouts, including: `note`, `tip`, `warning`, `caution`, and `important`.

 This is very very important

With a custom title

 With hidden text

Hidden text

4.2 Tabulations

4.2.1 Tab1


Content of the first tab

4.2.2 Tab2

Content of the second tab

4.2.3 Tab3

Content of the third tab

 Caution

In the PDF output, the content of each tab will be displayed consecutively, one after the other.

4.3 Internal link

It is possible to reference another section from the page :

1. add an id to the target section, for example `## Advanced tools {#advanced-tools-id}`
2. reference it : `[Advanced tools section] (#advanced-tools-id)`

The result : link to the [Advanced tools section](#)

4.4 Math

- with one \$: inline $\bar{X}_n = \frac{1}{n} \sum_{i=1}^n X_i$
- with two \$\$:

$$\tilde{S}^2 = \frac{1}{n} \sum_{i=1}^n (X_i - \bar{X}_n)^2$$

4.5 Diagrams

[Mermaid](#) lets you create various diagrams and visualizations

