

# 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](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

