

Skills 4 eosc

- Skills for the European
- Open Science
- Commons

Content Development

WP2 T3

Supporting

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Learning Objectives



Recognize the most important Markdown syntax elements



Develop new learning materials from scratch by applying the Markdown syntax on existing template documents



Manipulate existing learning objects, making them compliant with the FAIR-by-Design methodology

Agenda

**Introduction to
Markdown Elements**

**Markdown in
Practice**

**Editing Existing
Markdown
Documents**

Introduction

- Simple syntax to accomplish common text formatting tasks
 - Headings
 - (Un)ordered lists
 - Links
 - Images
 - Tables
 - Bold/Italic text
 - Metadata
- Optional WYSIWYG editors

Image by [bodobe](#) from [Pixabay](#)



Markdown Overview

- Two approaches
 - Native Markdown syntax
 - Obsidian WYSIWYG editing toolbar plugin
- Rendering is determined by the Markdown flavor
 - No 100% interoperability between Obsidian and MkDocs
 - We will solve issues along the way...
- Export to various final output formats possible
 - PDF
 - HTML

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Let's get started...

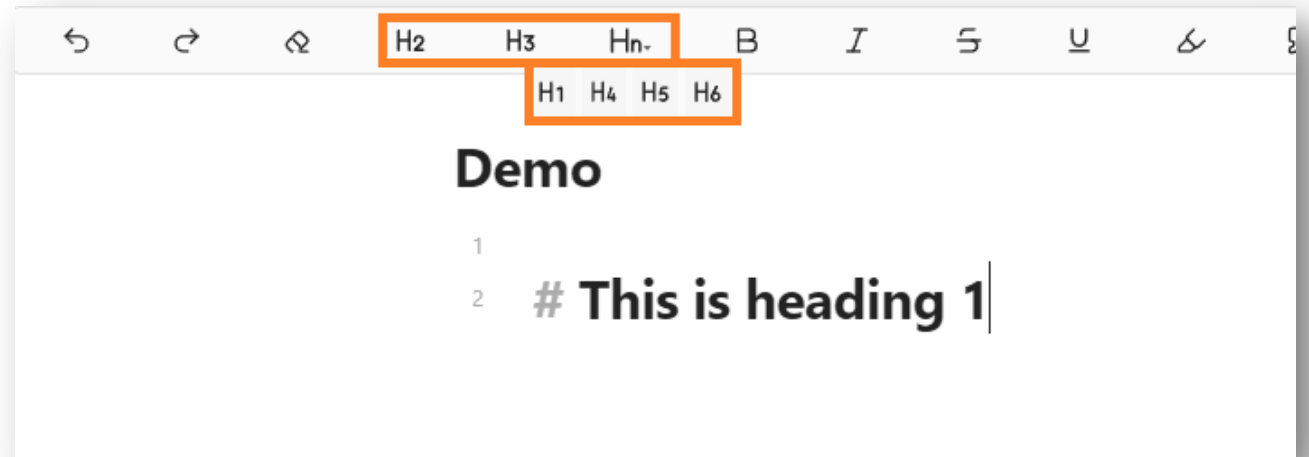
Markdown syntax



Headings

- ‘#’ prefix
- Multiple levels possible
 - # - Heading 1
 - ## - Heading 2
 - ...

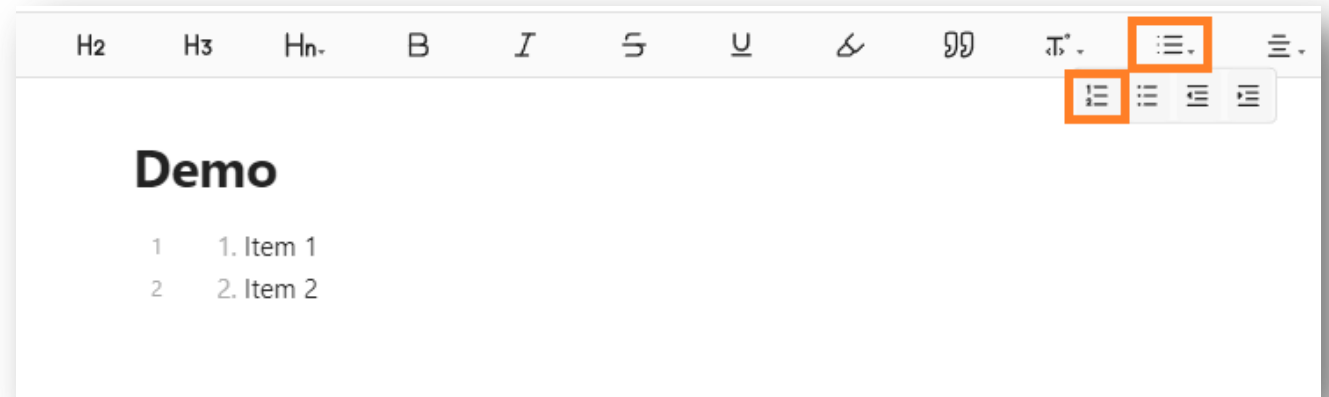
```
1 # This is heading 1
2
3 Lorem ipsum...
4
5 ## This is heading 2
6
7 Lorem ipsum...
8
9 ### This is heading 3
10
11 Lorem ipsum...
```



Ordered Lists

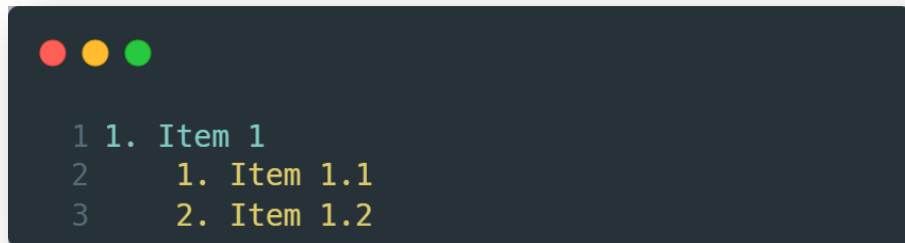
- Intuitive
- Simply prefix with the desired number
- Empty line before and after

```
1 Lorem ipsum dolor est.  
2  
3 1. Item 1  
4 2. Item 2  
5 3. Item 3  
6  
7 Lorem ipsum dolor est.
```

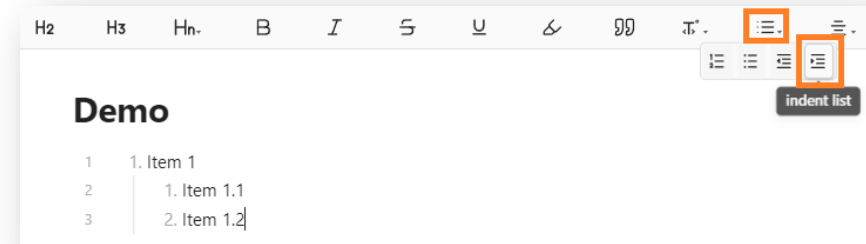


Nested Ordered Lists

- As regular lists, but indented (prefixed with spaces)
- Important to keep the indentation consistent
 - Obsidian's editing toolbar takes care of the indentation, if used

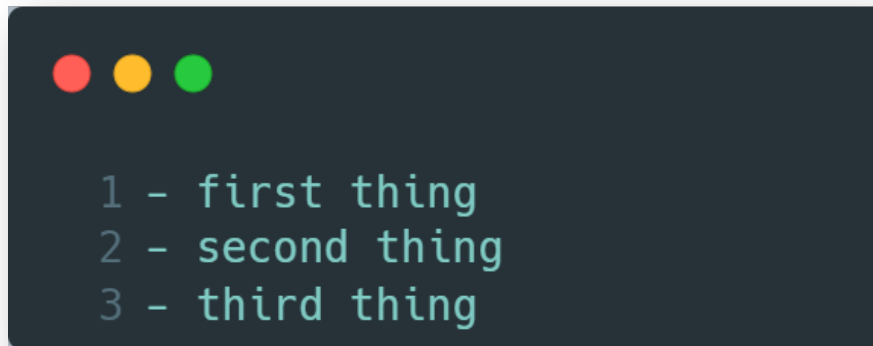


```
1 1. Item 1
2   1. Item 1.1
3   2. Item 1.2
```

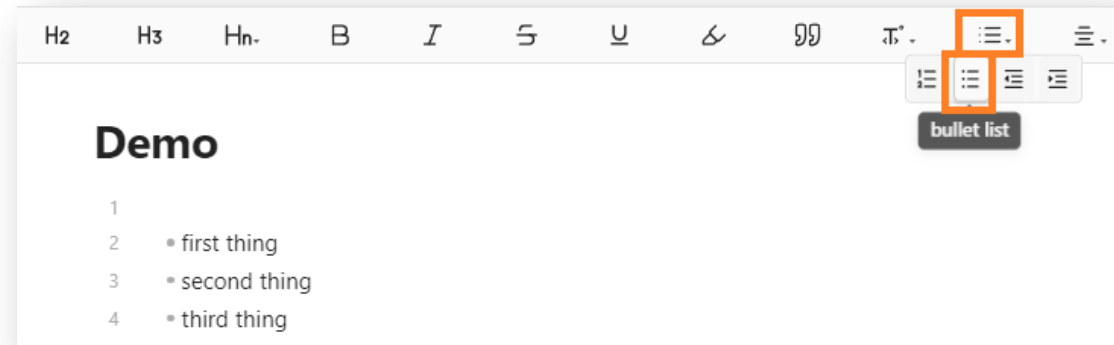


Unordered Lists (Bullets)

- Two equivalent approaches
 - - prefix
 - * prefix
- Decide which one to use and stick to it



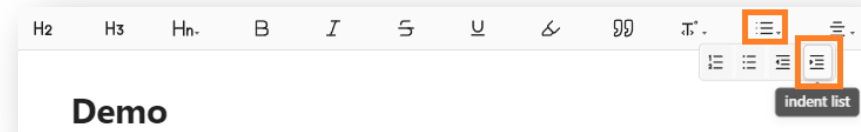
```
1 - first thing  
2 - second thing  
3 - third thing
```



Nesting Ordered and Unordered Lists

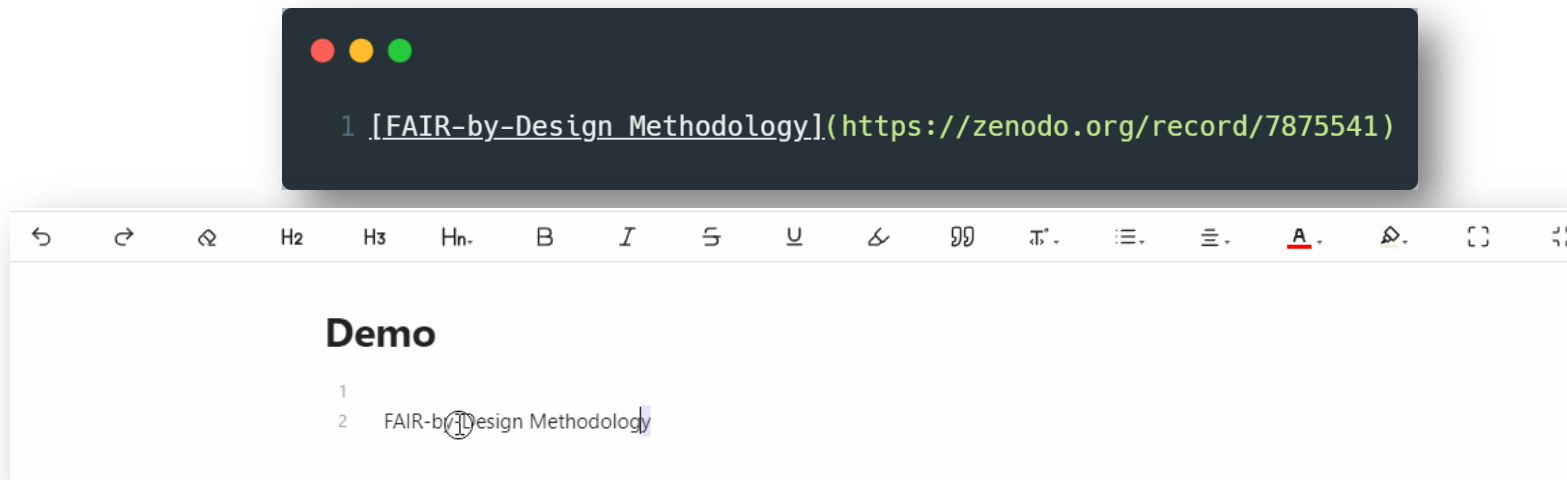
- Interchangeable nesting between ordered and unordered lists
- As previously, indentation is important
- When using the Obsidian toolbar, the same indentation buttons can be used as previously

```
1 1. Element 1
2 2. Element 2
3   - subelement 1
4   - subelement 2
5 3. Element 3
6   1. subelement 1
7   2. subelement 2
```



Links

- Syntax: [Link Text](<https://example.com>)
- Two parts
 - Visible text between “[]” brackets
 - Link location between “()” brackets
- When linking to a web page, important to set “http://” or “https://”



Internal Links to a Page

- Relative links to an arbitrary heading on the existing page or a different page
- Syntax for the link location part: `markdown-file.md#heading`
 - First part: relative path to the markdown file
 - Second part: “#” sign
 - Third part: heading name, all lowercase, spaces replaced with “-”
- [Advanced Linking with Obsidian in the Git book](#)

```
1 [See here for more details about unordered lists](09-Markdown Syntax.md#unordered-lists)
2
```

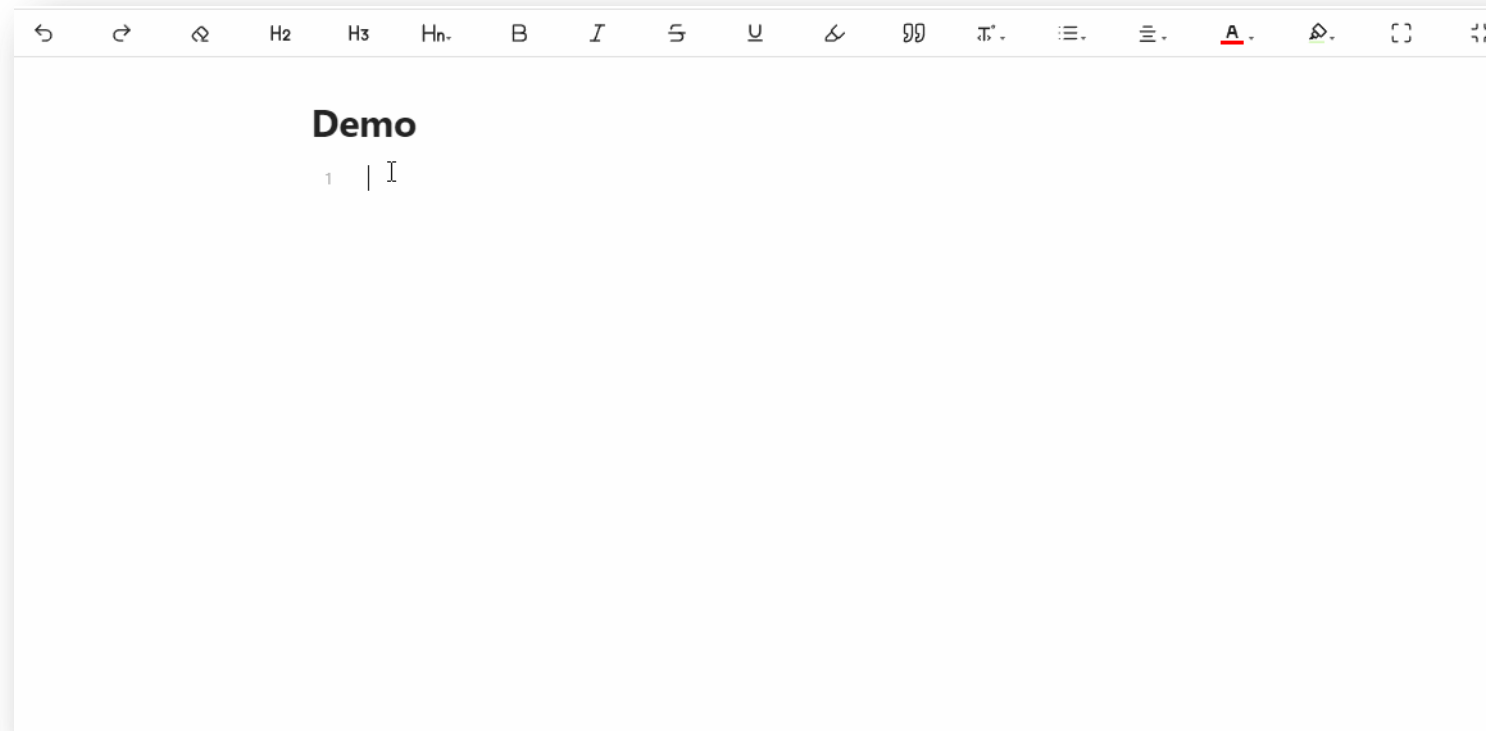

Images (1)

- Similar syntax to the one for inserting links
 - An additional “!” as a prefix
 - The text between “[]” is the alt text. Important for accessibility
- Obsidian supports automatic image placement using copy/paste
 - Demo on the next slide

```
1 ![Cute Animal](https://static.mrezhi.net/general/kitten.jpg)
```

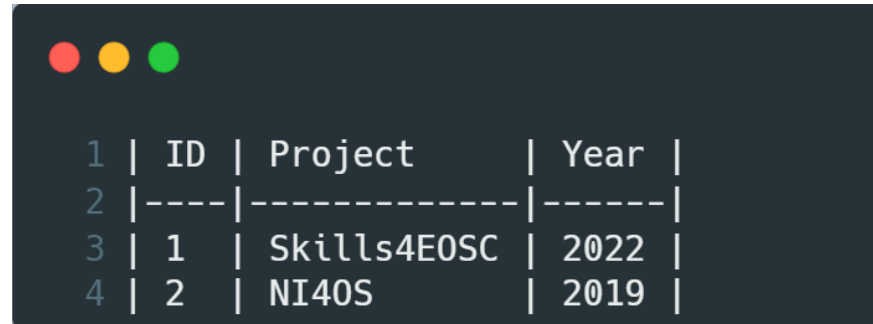
Images (2)

- Obsidian image handling demonstration



Tables (1)

- Somewhat complicated (compared to previous elements)
- Let's start with an example and then analyze it

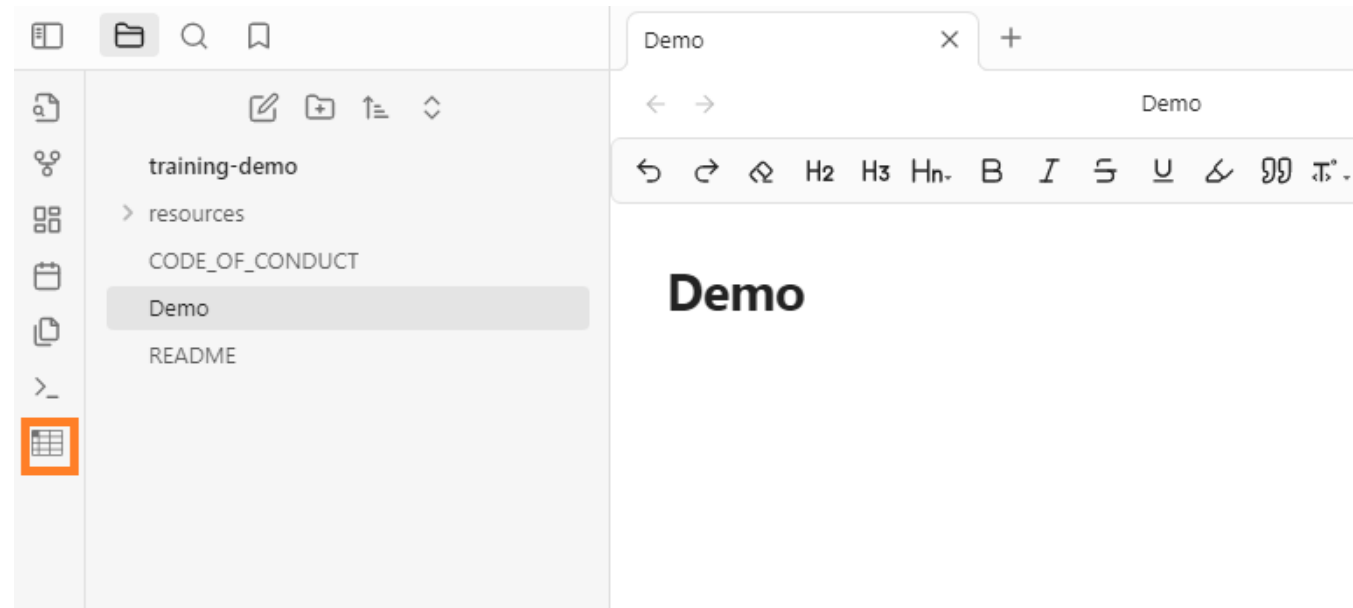


1	ID	Project	Year
2	----	-----	-----
3	1	Skills4EOSC	2022
4	2	NI40S	2019

- Header row separated from the body using:
 - | ---- | ----- | ----- |
- Number of dashes is not important (only cosmetic)

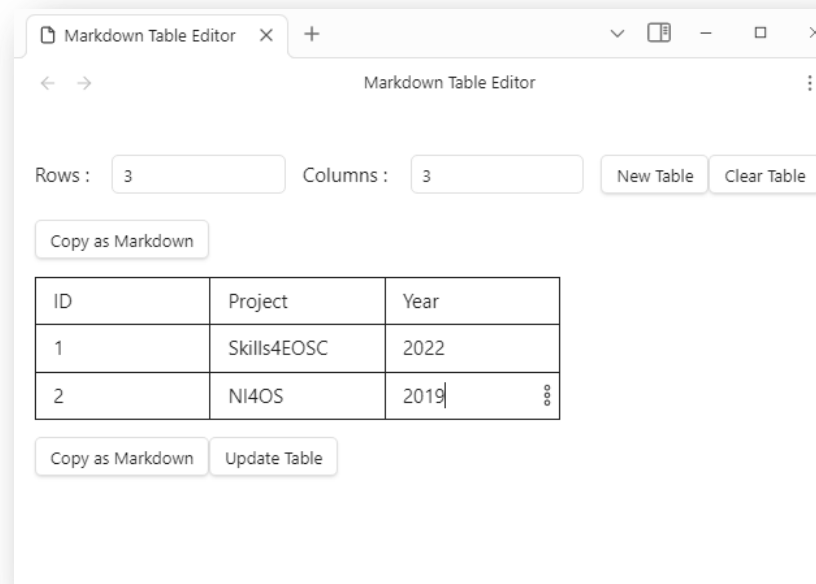
Tables (2)

- Simpler approach to creating tables in Obsidian using a plugin
- Dedicated button after installing “Markdown Table Editor”



Tables (3)

- Depending on context:
 - An existing table is selected -> the plugin launches in editing mode
 - No table is selected -> creating a new one and launching editing mode



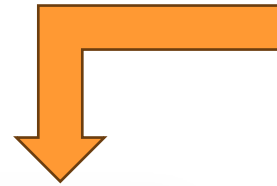
The screenshot shows a web-based interface titled "Markdown Table Editor". It features input fields for "Rows" (set to 3) and "Columns" (set to 3), along with "New Table" and "Clear Table" buttons. Below these is a "Copy as Markdown" button. The main area displays a table with the following content:

ID	Project	Year
1	Skills4EOSC	2022
2	NI4OS	2019

At the bottom of the table, there are two buttons: "Copy as Markdown" and "Update Table".

Tables (4)

- Advanced operations supported
 - Adding/Removing rows
 - Moving rows



Demo

Demo

ID	Project	Year
1	Skills4EOSC	2022
2	NI4OS	2019

Markdown Table Editor

Rows : 3 Columns : 3

New Table Clear Table

Copy as Markdown

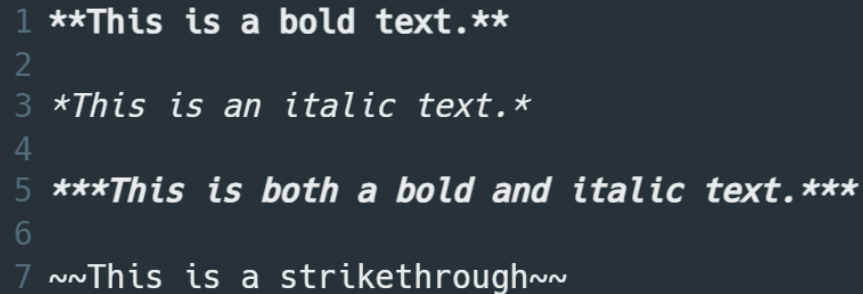
ID	Project	Year
1	Skills4EOSC	2022
2	NI4OS	2019

Copy as Markdown Update Table

- Add row above
- Add row below
- Remove row
- Add column left
- Add column right
- Remove column
- Move row up
- Move row down
- Move column right
- Move column left
- Cut
- Copy
- Paste

Various Text Formatting Operations

- Bold, italic, underline, and various combinations
- Dedicated buttons in the editing toolbar
- Changing text color and background should be avoided (possible incompatibility between Markdown flavors)



```
1 **This is a bold text.**
2
3 *This is an italic text.*
4
5 ***This is both a bold and italic text.***
6
7 ~~This is a strikethrough~~
```


Metadata

- Arbitrary metadata added to the very top of the file
- Dedicated section enclosed with “---” lines
- Special treatment for some parameters (but not all)
 - Title – sets the page title in the Git book
 - Tags – added as pill-shaped boxes at the top of the page
- YAML syntax (indentation is important)

```
1 ---
2 title: My Document
3 author:
4   - John Doe
5   - Jane Doe
6 tags:
7   - FAIR-by-Design
8   - Markdown
9 ---
```

Taking Markdown for a Test Drive

Using the obtained knowledge regarding Markdown, fill out the lesson plan template with the necessary information.

First Things First...

Make sure that the cloned repository is up-to-date and that any remote changes have been pulled locally.

The Road Ahead

Make a copy of the
template_unit_lesson_p
lan.md template

Open it in Obsidian

Fill out the metadata

Change heading 1 to the
title of the unit

Change heading 2 to
“Goals”, add an unordered
list with at least 3 elements

Edit the unordered list in
the “Location” section

Format estimated training
duration in the “Total
Duration” section as both
bold and italic

Provide number of
attendees

Convert the unordered list
in the “Learning
Objectives” section to an
ordered list, providing at
least 3 learning objectives

Edit the table in the “Plan”
section, removing any
unnneeded rows. Add a link
in the “Activities” section.

Provide “Assessment”
information, adding a
nested list to an existing list
element.

Alter the “Certification or
Badge” section by inserting
an image of an arbitrary
badge

Complete the lesson plan
by filling out the
“Reflections” and
“Comments” sections

Commit the changes and
push them to GitHub

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Supporting



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Thank you! Any questions before we continue?

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