

Moodular

Use Typst's HTML export to generate content for your Moodle courses

v0.0.1

<https://github.com/SillyFreak/typst-moodular>

Clemens Koza

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I INTRODUCTION

This package allows you to use Typst's HTML export to generate content for your Moodle courses, but preview them faithfully in Tinymist or the webapp.

This package is somewhat opinionated, as it contains features tailored towards specific Moodle plugins used at our own school:

- Components for Learning (C4L) (Atto/TinyMCE plugin): Moodular recreates the HTML structure of C4L blocks, and also renders them for PDF export

II MODULE REFERENCE

II.a moodular

- `setup()`
- `preview()`

- `export()`
- `frame()`

```
setup(mode: string) -> function
```

Moodular's main template function, to be called as a show rule:

```
1 #show: setup(mode: "preview") // or "export"
```

typ

If you don't need flexibility of the mode, you can use `preview()` or `export()` instead.

The function applies the following settings for PDF export:

- if mode is "preview", sets the page height to auto so that all content appears on a single continuous page, like on the web
- sets a sans serif font (Noto Sans is currently hardcoded and therefore needs to be present) and displays links blue and underlined
- shows blockquotes with a gray left border
- show raw blocks with a light beige background

which is a best-effort recreation of Moodle's Boost theme's default style.

For HTML export, the following settings are applied:

- raw blocks are wrapped in `<pre class="language-..."><code>` tags to apply Moodle's syntax highlighting
- image elements are transformed into `` tags. The `@@PLUGINFILE@` prefix is used internally by Moodle to indicate references to uploaded files.

Parameters:

`mode (string = none)` – the mode to use for the document; either `preview` (simulate a non-paged run of HTML content) or `export` (don't change the page setup, as to produce a paged PDF document).

```
preview() -> function
```

Sets up the document for HTML preview, i.e. simulating a non-paged run of HTML content. This is a wrapper around `setup()`, see that function for details.

```
export() -> function
```

Sets up the document for PDF export, i.e. producing a paged PDF document. This is a wrapper around `setup()`, see that function for details.

```
frame(body: content) -> content
```

Conditionally puts content into an `html.frame`, i.e. rendering it as an `<svg>` tag. When exporting to PDF, the content is simply displayed as-is.

Parameters:

`body (content)` – the content to put into a frame

II.b c4l

- `key-concept()`
- `tip()`
- `reminder()`
- `quote()`
- `do-dont()`

- `reading-context()`
- `example()`
- `figure()`
- `attention()`
- `procedural-context()`

- `learning-outcomes()`
- `expected-feedback()`
- `card()`

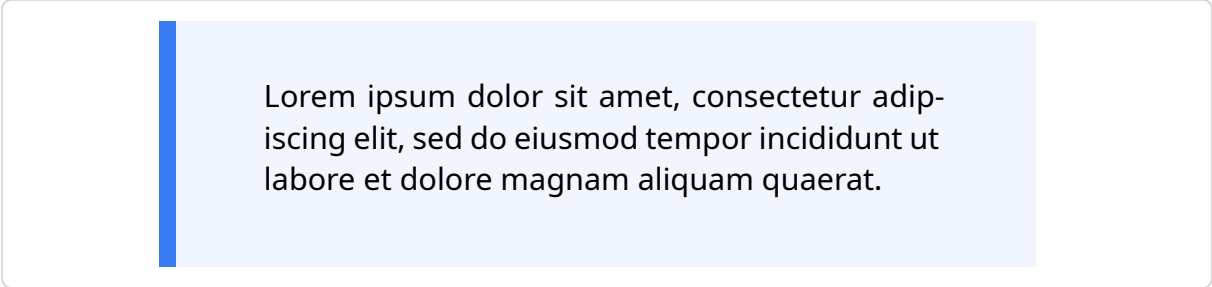
```
key-concept(body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/key-concept/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.key-concept[#lorem(20)]
```

typc



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Parameters:

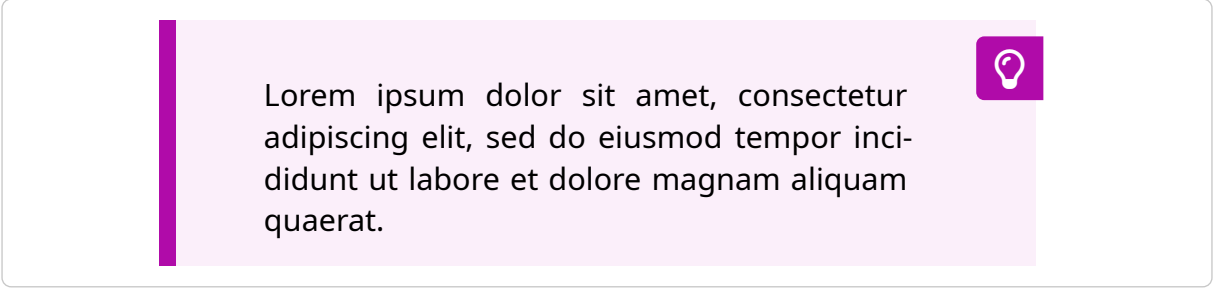
`full-width (= false)` – whether the component should take up the full text width

```
tip(body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/tip/> for details and examples rendered in HTML.
This is how the component looks in PDF preview:

```
1 c4l.tip[#lorem(20)]
```

typc

A preview of the 'tip' component. It features a light purple rectangular box with a thin vertical purple bar on the left side. Inside the box, the text 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.' is displayed. In the top right corner of the box, there is a small purple square icon containing a white lightbulb.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

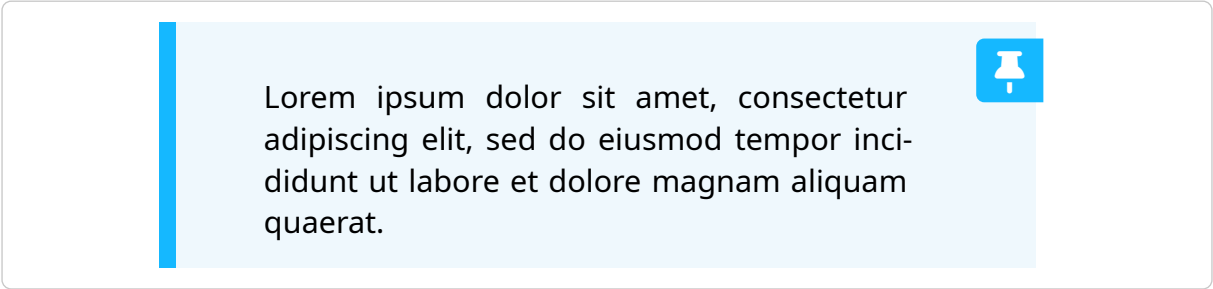
```
reminder(body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/reminder/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.reminder[#lorem(20)]
```

typc

A preview of the 'reminder' component. It features a light blue rectangular box with a thin vertical blue bar on the left side. Inside the box, the text 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.' is displayed. In the top right corner of the box, there is a small blue square icon containing a white pushpin.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

```
quote(body: content, full-width, attribution) -> content
```

See <https://componentsforlearning.org/components/quote/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.quote[#lorem(20)]
```

typc

“Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.”

```
1 c4l.quote(attribution: lorem(5))[#lorem(20)]
```

typc

“Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.”

Lorem ipsum dolor sit amet.

Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

`attribution` (= `none`) – the attribution associated with the quote

```
do-dont(do: content, dont: content, full-width) -> content
```

See <https://componentsforlearning.org/components/do-dont-cards/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.do-dont[#lorem(20)][#lorem(20)]
```

typc

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sed do eiusmod tempor incididunt ut labore et dolore
magnam aliquam quaerat.



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sed do eiusmod tempor incididunt ut labore et dolore
magnam aliquam quaerat.



Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

```
reading-context(  
  body: content,  
  full-width,  
  attribution,  
  comfort-reading,  
) -> content
```

See <https://componentsforlearning.org/components/reading-context/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.reading-context(comfort-reading: true)[#lorem(20)]
```

typc

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```
1 c4l.reading-context(attribution: lorem(5))[#lorem(20)]
```

typc

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sed do eiusmod tempor incididunt ut labore et dolore
magnam aliquam quaerat.

Lorem ipsum dolor sit amet.

Parameters:

full-width (= **false**) – whether the component should take up the full text width

attribution (= **none**) – the attribution associated with the quote

comfort-reading (= **false**) – whether to display the context in a serif font

```
example(title: content, body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/example/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.example[Title][#lorem(20)]
```

typc

TITLE

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua quaerat.

Parameters:

full-width (= false) – whether the component should take up the full text width

```
figure(..args, full-width) -> content
```

See <https://componentsforlearning.org/components/figure/> for details and examples rendered in HTML.

This is rendered as a regular figure in PDF preview:

```
1 c4l.figure[#lorem(20)]
```

typc

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```
1 c4l.figure(caption: lorem(5))[#lorem(20)]
```

typc

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Lorem ipsum dolor sit amet.

Parameters:

full-width (= false) – whether the component should take up the full text width

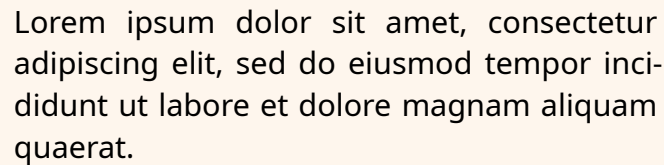
```
attention(body: content , full-width) -> content
```

See <https://componentsforlearning.org/components/attention/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.attention[#lorem(20)]
```

typc



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Parameters:

full-width (= false) – whether the component should take up the full text width

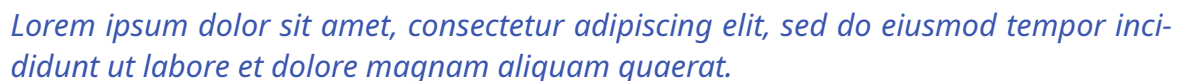
```
procedural-context(body: content , full-width) -> content
```

See <https://componentsforlearning.org/components/procedural-context/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.procedural-context[#lorem(20)]
```

typc



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Parameters:

full-width (= false) – whether the component should take up the full text width

```
learning-outcomes(title: content , body: content , full-width) -> content
```

See <https://componentsforlearning.org/components/learning-outcomes/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.learning-outcomes[Title][
```

typc

```
2   - #lorem(5)
```

```
3   - #lorem(10)
```

```
4 ]
```


TITLE

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- ▶ Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

```
1 c4l.learning-outcomes[Title][
2   + #lorem(5)
3   + #lorem(10)
4 ]
```

typc

TITLE

1. Lorem ipsum dolor sit amet.
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

```
expected-feedback(body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/expected-feedback/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.expected-feedback[#lorem(20)]
```

typc

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Parameters:

`full-width` (= `false`) – whether the component should take up the full text width

```
card(body: content, full-width) -> content
```

See <https://componentsforlearning.org/components/all-purpose-card/> for details and examples rendered in HTML.

This is how the component looks in PDF preview:

```
1 c4l.card[#lorem(20)]
```

typc

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Parameters:

`full-width` (= `false`) – whether the component should take up the full text width