






# Marp



**Markdown presentation ecosystem**

by Marp Team ([@marp-team](#))

# Features

-  **Write slide deck with plain Markdown** (CommonMark)
-  Built on [Marpit framework](#): A brand-new skinny framework for creating slide deck
-  [Marp Core](#): Easy to start using the core engine and built-in themes via npm
-  [Marp CLI](#): Convert Markdown into HTML, PDF, PPTX, and images
-  [Marp for VS Code](#): Live-preview your deck while editing
- and more...

# How to write slides?

Split pages by horizontal ruler (e.g. `---`). It's very simple.

```
# Slide 1
```

```
foobar
```

```
---
```

```
# Slide 2
```

```
foobar
```

# Directives

Marp has extended syntax called "**Directives**" to support creating beautiful slides.

Insert front-matter to the top of Markdown:

```
---  
theme: default  
---
```

or HTML comment to anywhere:

```
<!-- theme: default -->
```

<https://marpit.marp.app/directives>

# Global directives

- `theme` : Choose theme
- `size` : Choose slide size from `16:9` and `4:3` (*except Marpit framework*)
- `headingDivider` : Instruct to divide slide pages at before of specified heading levels

```
---  
theme: gaia  
size: 4:3  
---  
  
# Content
```

Marp can use [built-in themes in Marp Core](#): `default` , `gaia` , and `uncover` .

## Local directives

These are the setting value per slide pages.

- `paginate` : Show pagination by set `true`
- `header` : Specify the contents for header
- `footer` : Specify the contents for footer
- `class` : Set HTML class for current slide
- `color` : Set text color
- `backgroundColor` : Set background color

## Spot directives

Local directives would apply to **defined page and following pages.**

They can apply to single page by using underscore prefix such as `_class`.

```
---  
backgroundColor: white  
---
```

```
# Page 1
```

```
---  
<!-- backgroundColor: orange -->  
---
```

```
# Page 2
```

```
---  
<!-- _color: white -->  
---
```

```
# Page 3
```

```
---  
# Page 4
```

Page 1

Page 2

Page 3

Page 4

## Example

This page is using invert color scheme defined in Marp built-in theme.

```
<!-- _class: invert -->
```



# Image syntax

You can resize image size and apply filters through keywords: `width` (`w`), `height` (`h`), and filter CSS keywords.

```
![width:100px height:100px](image.png)
```

```
![blur sepia:50%](filters.png)
```

Please refer [resizing image syntax](#) and [a list of CSS filters](#).



# Background image

You can set background image for a slide by using `bg` keyword.

```
![bg opacity](https://yhatt-marp-cli-example.netlify.com/assets/gradient.jpg)
```

## Multiple backgrounds (Marpit's advanced backgrounds)

Marp can use multiple background images.

```
![bg blur:3px](https://fakeimg.pl/800x600/fff/ccc/?text=A)
![bg blur:3px](https://fakeimg.pl/800x600/eee/ccc/?text=B)
![bg blur:3px](https://fakeimg.pl/800x600/ddd/ccc/?text=C)
```

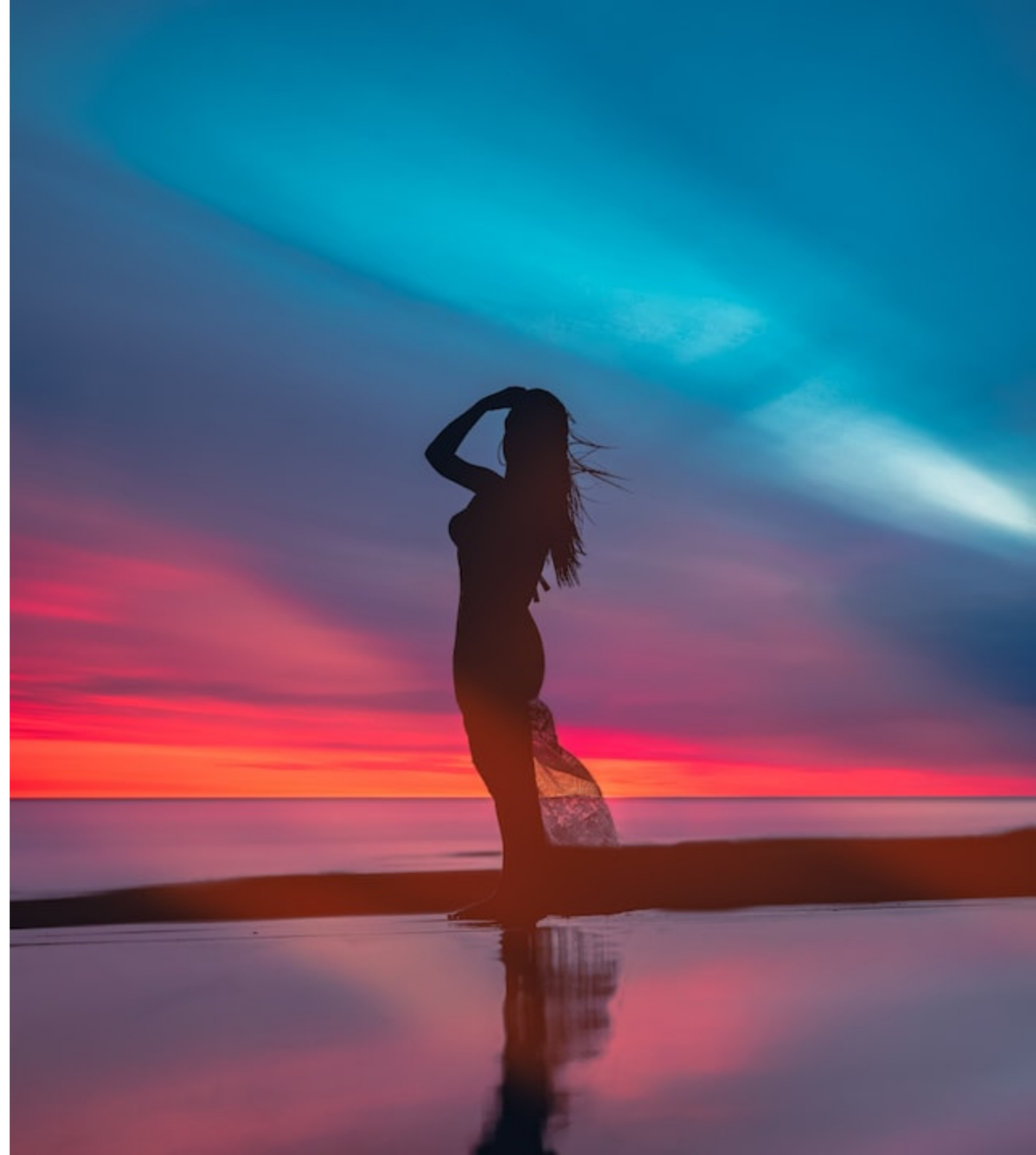
Also can change alignment direction by including `vertical` keyword.

## Split background

Marp can use [Deckset](#) style split background(s).

Make a space for background by `bg` + `left` / `right` keywords.

```
![bg right](image.jpg)
```



# Fragmented list

Marp will parse a list with asterisk marker as the fragmented list for appearing contents one by one. (***Only for exported HTML*** by [Marp CLI](#) / [Marp for VS Code](#))

## # Bullet list

- One
- Two
- Three

- - -

## # Fragmented list

- \* One
- \* Two
- \* Three

## Math typesetting (only for **Marp Core**)

**KaTeX** math typesetting such as  $ax^2 + bc + c$  can use with **Pandoc's math syntax**.

$$I_{xx} = \int \int_R y^2 f(x, y) \cdot dydx$$

```
$ax^2+bc+c$
```

```
$$I_{xx}=\int\int_Ry^2f(x,y)\cdot dydx$$
```

## Auto-scaling (only for **Marp Core**)

*Several built-in themes* are supported auto-scaling for code blocks and math typesettings.

```
Too long code block will be scaled-down automatically. ----->
```

```
Too long code block will be scaled-down automatically. ----->
```

```
Too long code block will be scaled-down automatically. ----->
```

# Auto-fitting header (only for **Marp Core**)

is available by annotating `<!--fit-->` in headings.

```
## <!--fit--> Auto-fitting header (only for Marp Core)
```



# Theme CSS

Marp uses `<section>` as the container of each slide. And others are same as styling for plain Markdown. The customized theme can use in [Marp CLI](#) and [Marp for VS Code](#).

```
/* @theme your-theme */

@import 'default';

section {
  /* Specify slide size */
  width: 960px;
  height: 720px;
}

h1 {
  font-size: 30px;
  color: #c33;
}
```

# Tweak style in Markdown

`<style>` tag in Markdown will work in the context of theme CSS.

```
---  
theme: default  
---  
  
<style>  
section {  
  background: yellow;  
}  
</style>
```

Re-painted yellow background, ha-ha.

You can also add custom styling by class like `section.custom-class { ... }`.

Apply style through `<!-- _class: custom-class -->`.

## Scoped style

If you want one-shot styling for current page, you can use `<style scoped>` .

```
<style scoped>
a {
  color: green;
}
</style>
```

```
![Green link!](https://marp.app/)
```

# Enjoy writing slides!



📄 Marp: Markdown presentation ecosystem — <https://marp.app/>

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