# Academic Presentation with AI and Marp see how future looks like

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## Using math in the presentation

• The normal distribution is a continuous probability distribution that is symmetrical on both sides of the mean, so the right side of the center is a mirror image of the left side.

$$f(x)=rac{1}{\sigma\sqrt{2\pi}}e^{-rac{1}{2}(rac{x-\mu}{\sigma})^2}$$

• Inline math: f(x) = ax + b

## Using math in the presentation

• A matrix is a rectangular array of numbers or other mathematical objects for which operations such as addition and multiplication are defined.

$$egin{bmatrix} 1 & 2 & 3 \ 4 & 5 & 6 \ 7 & 8 & 9 \end{bmatrix} imes egin{bmatrix} 1 & 0 & 0 \ 0 & 1 & 0 \ 0 & 0 & 1 \end{bmatrix} = egin{bmatrix} 1 & 2 & 3 \ 4 & 5 & 6 \ 7 & 8 & 9 \end{bmatrix}$$

## Using tables in the presentation

col_1	col_2	col_3	col_4	col_5
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

## Using images in the presentation

image in the center



• another one left aligned with R logo



#### Using code in the presentation

• Python code

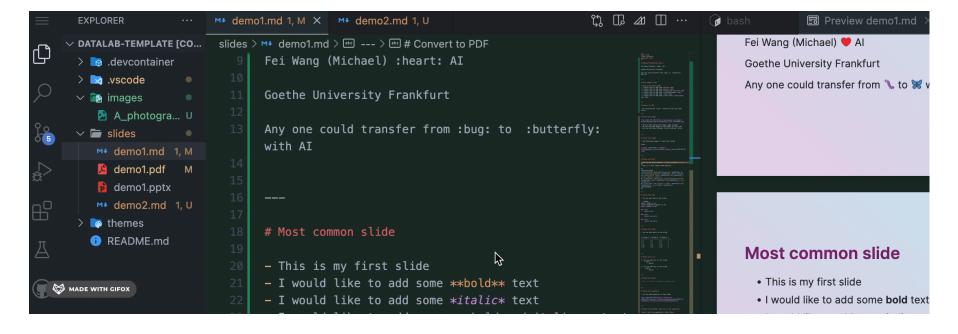
```
import numpy as np
import matplotlib.pyplot as plt
print('Hello World!')
```

R code

```
library(ggplot2)
library(data.table)
print('Hello World!')
```

## Convert to PDF or PPT by clicking the button

• by clicking the Export button on the top right corner



#### Convert to PDF or PPT from command line

Convert to PDF

```
docker \
  run --rm -v $PWD:/home/marp/app/ -e LANG=$LANG \
  marpteam/marp-cli \
  practice_03/p03_slides.md --pdf \
  --theme ./themes/beam.css
```

Convert to PPT

```
docker \
  run --rm -v $PWD:/home/marp/app/ -e LANG=$LANG \
  marpteam/marp-cli practice_03/p03_slides.md --pptx \
  --theme ./themes/beam.css
```

#### References

- 1. Marp
- 2. Marp Theme
- 3. Marp CLI
- 4. Marp Docker
- 5. Marp Instruction
- 6. Latex style with Vscode
- 7. Latex css
- 8. Blei, D. M., Ng, A. Y., & Jordan, M. I. (2003). Latent dirichlet allocation. Journal of machine Learning research, 3(Jan), 993-1022.