

Sample Title

Sample Subtitle

Author

March 20, 2021

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Switch Between Styles

- ▶ switch with `\setprimarytitlepage` and `\setsecondarytitlepage` between title pages
- ▶ switch with `\usebluestyle` `\useredstyle` and `\usegraystyle` between color styles
- ▶ for different colors than the provided ones, edit the colors in `beamercolorthememinima.sty`
 - ▶ background color: `\definecolor{lightgray}{HTML}{Your_HEX_Color}`
 - ▶ primary color: `\definecolor{darkgray}{HTML}{Your_HEX_Color}`
 - ▶ secondary color: `\definecolor{gray}{HTML}{Your_HEX_Color}`

Simple Content

Here we have an `itemize` environment.

- ▶ First.
- ▶ Second.
- ▶ Third.

This is a paragraph. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren.

Here we have an `enumerate` environment.

1. First.
2. Second.
3. Third.

Simple Content

small

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Mathematical Content

An Example of Mathematical Content

$$\begin{aligned} p(C, \Pi, \Theta, W) &= p(\Pi \mid \alpha) p(C \mid \Pi) p(\Theta \mid \beta) p(W \mid C, \Theta) \\ &= \left(\prod_d p(\pi_d \mid \alpha_d) \right) \left(\prod_d \prod_i^{I_d} p(c_{di} \mid \pi_d) \right) \left(\prod_d \prod_i^{I_d} p(w_{di} \mid c_{di}, \Theta) \right) \left(\prod_k^K p(\theta_k \mid \beta_k) \right) \\ &= \left(\prod_d \mathcal{D}(\pi_d; \alpha_d) \right) \left(\prod_d \prod_i^{I_d} \left(\prod_k^K \pi_{dk}^{c_{dik}} \right) \right) \left(\prod_d \prod_i^{I_d} \left(\prod_k^K \theta_{kv}^{c_{dik}} \right) \right) \left(\prod_k^K \mathcal{D}(\theta_k; \beta_k) \right) \\ &= \left(\prod_d \frac{\Gamma(\sum_k \alpha_{dk})}{\prod_k \Gamma(\alpha_{dk})} \prod_k^K \pi_{dk}^{\alpha_{dk} - 1 + n_{dk}} \right) \left(\prod_d \frac{\Gamma(\sum_v \beta_{kv})}{\prod_v \Gamma(\beta_{kv})} \prod_v^V \theta_{kv}^{\alpha_{kv} - 1 + n_{kv}} \right) \end{aligned}$$

This is the joint probability for the Latent Dirichlet Allocation. You can find more information on this topic [here](#) (where also this formula is taken from).

Mathematical Content

Theorems and Proofs

Definition (odd integer)

An integer $z \in \mathbb{Z}$ is said to be odd if it is not divisible by two, i.e. there exist no $k \in \mathbb{Z}$ s.t. $z = 2k$.

Theorem (Multiplication of Odd Integers Yields Even Integer)

Let $a, b \in \mathbb{Z}$ be two non-null odd integers. Then $a \cdot b$ is an even integer.

Proof.

Let $k, l \in \mathbb{Z} \setminus \{0\}$, $a = 2k + 1$, $b = 2l + 1$. Then

$$a \cdot b = (2k + 1)(2l + 1) = 4kl + 2k + 2l + 2 = 2(2kl + k + l + 1)$$

which is even. □

Algorithmic Content

Bubble Sort

Bubble Sort is an algorithm to sort an array of real numbers.

Algorithm 1: BubbleSort(A)

```
1  $n \leftarrow A.length$ 
2 for  $i = 1$  to  $n$  do
3   | for  $j = 0$  to  $n - i$  do
4   |   | if  $A[j + 1] < A[j]$  then
5   |   |   | exchange values at positions  $j + 1$  and  $j$  in  $A$ 
6   |   | end
7   | end
8 end
9 return  $A$ 
```

Blocks and Stripes

Important information.

Some content is just too important to leave it without highlighting on a slide

Some content is just too important to leave it without highlighting on a slide. Like **this** needs to be additionally highlighted.

Highlight Title

Highlight Subtitle

Sometimes there is a need for a special highlighting page to separate different topics in the presentation.

Sometimes there is a need for a special highlighting page to separate different topics in the presentation. Even without a title.

Simple Content

... after a highlight-slide

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