

My Beamer L^AT_EX Template

A Demo for the theme

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Outline

1. Introduction
2. Background
3. Chinese
4. Code Block
5. Algorithm

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Introduction

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- It works with xeLaTeX

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Background

Slides with \LaTeX

Beamer offers a lot of functions to create nice slides using \LaTeX .

The basis

This style uses the following default styles:

- split
- whale
- rounded
- orchid

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中文

- 本主题支持中文。

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Code Block

```
# -*- coding: utf-8 -*-  
  
import torch # root package  
import torch.autograd as autograd # computation graph  
import torch.nn as nn # neural networks  
import torch.nn.functional as F # layers, activations and more  
import torch.optim as optim # optimizers e.g. gradient descent, ADAM, etc.  
from torch import Tensor # tensor node in the computation graph  
from torch.jit import script # hybrid frontend decorator and tracing jit  
from torch.jit import trace
```

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Input: HOSVD($\mathcal{X}, R_1, R_2, \dots, R_N$)

Output: $\mathcal{G}, A_{(1)}, A_{(2)}, \dots, A_{(N)}$

```

1 for  $k = 1$  to  $N$  do
2   |  $A_{(n)} \leftarrow R_n$  left singular matrix of  $X_{(n)}$ 
3 end
4  $\mathcal{G} \leftarrow \mathcal{X} \times A_{(1)}^T \times A_{(2)}^T \dots \times A_{(N)}^T$ 
5 return  $\mathcal{G}, A_{(1)}, A_{(2)}, \dots, A_{(N)}$ 

```

Algorithm 1: HOSVD