My Beamer LaTeX Templete

A Demo for the theme

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Introduction

- This is just a short example

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- It works with xeLaTeX

Background

Slides with LaTeX

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

中文

- 本模板支持中文。

静夜思

床前明月光，疑是地上霜。
举头望明月，低头思故乡。

Python

```
# *-* 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
```

C++

```
void DifferentThing(const std::string &s) {
  std::cout << "DifferentThing " << s << std::endl;
}

int main (int argc, char *argv[]){
  if (argc > 2) {
    std::string param1(argv[1]);
    std::string param2(argv[2]);

    if (param1 == "function1")
    std::cout << param2 << std::endl;
    else if (param1 == "function2")
    DifferentThing(param2);
  }
  return 0;
}
```

```
Input: HOSVD($\mathcal{X}, R_1, R_2.....R_N$)
Output: $\mathcal{G}, A_{(1)}, A_{(2)}......A_{(N)}$
for $k = 1$ to $N$ do
    $A_{(n)} \leftarrow R_n$left singular matrix of $X_{(n)}$
end
$\mathcal{G} = \leftarrow \mathcal{X} \times A^T_{(1)} \times A^T_{(2)}...... \times A^T_{(N)}$
return $\mathcal{G}, A_{(1)}, A_{(2)}......A_{(N)}$
```

Algorithm 1: HOSVD