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NTU BEAMER TEMPLATE

ALL YOU NEED IS SETCOLOR

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Outline

- Introduction
- Features
 - Colors
 - Itemize/Enumerate
 - Box
 - Overlay
 - Code
 - Related Literature
- Project

Motivation

- No existing NTU beamer (with logo)
- Modern but structural template
- Adjustable color
- We like dark theme

Introduction

About this project...








- A less beamer-like NTU beamer template
- Easy color switching
- Literature importance marking
- Colorized description box

Features

Colors

- Use pre-defined NTU colors
- Add new colors to `beamercolorthementu.sty` file

This template provides below colors to choose

color	RGB
ntubrick	 190 67 52
ntugold	 212 175 55
ntudark	 40 42 54
ntured	 206 31 46
ntubblue	 26 38 96
lakerpurple	 121 82 179
lakergold	 255 193 7

*More combination of colors can be found here : [Color Hunt](#)

Change Color

- Use **setcolor** function to change the main and secondary color of the slides

```
1 % Use NTU theme
2 \usetheme{ntu}
3
4 % Set 2 colors
5 \setcolor[SecondColor]{MainColor}
6
7 % Set main color only
8 \setcolor{MainColor}
```

- The colors in top bar and footline would be slightly darker

Features

Item and Enumerate

- The item color
 - The subitem would be closer to secondary color
 - subitem color
1. Same color is set to enumerate as well
 2. The subitem will be closer to secondary
 - 2.1 subitem color here

Features

Box

Example box

This `examplebox` command would take 2 arguments:

- box title
- box content

And the box will automatically set to secondary color.

Features

Box

More flexible box

Use mybox enviroment for more colors.

- Set to firstcolor
- Set to arbitrary colors

Like This box

```
mybox{color}{title}
```

Features

More on Box

box 1

This is the box 1.

- First
- Second
- Third

box 2

This is the
box 2.

Features

Bayes' theorem

Theorem

- *Bayes Rule*

$$\mathbb{P}(A|B) = \frac{\mathbb{P}(B|A) \cdot \mathbb{P}(A)}{\mathbb{P}(B)}$$

- *Let A_1, A_2, \dots, A_K be a partition of the sample space S . Using the law of total probability for $\mathbb{P}(B)$, it then holds that:*

$$\mathbb{P}(A_j|B) = \frac{\mathbb{P}(B|A_j) \cdot \mathbb{P}(A_j)}{\sum_k \mathbb{P}(B|A_k) \cdot \mathbb{P}(A_k)}$$

Features

Block

Random Block Title

1. This will be a block [1]
2. This will be another citation [2]
3. This will also be another citation [3]
4. This still will be another citation [4]

Features

Overlay

- First thing first

Features

Overlay

- First thing first
- Second point

Features

Overlay

- First thing first
- Second point
- And if you want to highlight current object

Features Overlay

- First thing first
 - Second point
 - And if you want to highlight current object
1. Adding [`<|alert@+>`] could help coloring

Features Overlay

- First thing first
 - Second point
 - And if you want to highlight current object
1. Adding [`<|alert@+>`] could help coloring
 2. Now we're talking about this point

Features Overlay

- First thing first
 - Second point
 - And if you want to highlight current object
1. Adding [`<|alert@+>`] could help coloring
 2. Now we're talking about this point
 3. Test a math expression

$$\beta = (X'X)^{-1} \cdot (X'Y)$$

Features

Code Display

```
1  # Python Code
2  import torch
3  import torch.nn as nn
4
5  # model architecture
6  class Classifier(nn.Module):
7      def __init__(self):
8          super().__init__()
9          pass
10 model = Classifier()
```

Related Literature

citation with levels

- The normal citation would be like this [3]
- If the citation is more related / important, could set the cite level to A [2]
- The most important level (level set to "S") will be like this [5]



Features

Example of a Dark Theme

- item 1
- item 2
- test a table

Record		
User	Product	Price(\$)
UserA	Product1	13.65
	Product2	0.01
UserB	Product3	92.50
UserC	Product4	33.33
UserD	Product5	8.99

Features

summary table

Table: The iris dataset descriptive statistics.

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
Sepal.Length	150	5.843	0.828	4.300	5.100	6.400	7.900
Sepal.Width	150	3.057	0.436	2.000	2.800	3.300	4.400
Petal.Length	150	3.758	1.765	1.000	1.600	5.100	6.900
Petal.Width	150	1.199	0.762	0.100	0.300	1.800	2.500



Features

Graph is more vivid within the dark theme





Features

Reference I

- [1] Susan Dynarski et al. “Closing the Gap: The Effect of Reducing Complexity and Uncertainty in College Pricing on the Choices of Low-Income Students”. In: *American Economic Review* 111.6 (June 2021), pp. 1721–56. DOI: 10.1257/aer.20200451. URL: <https://www.aeaweb.org/articles?id=10.1257/aer.20200451>.
- [2] Adrian Adermon, Mikael Lindahl, and Mårten Palme. “Dynastic Human Capital, Inequality, and Intergenerational Mobility”. In: *American Economic Review* 111.5 (May 2021), pp. 1523–48. DOI: 10.1257/aer.20190553. URL: <https://www.aeaweb.org/articles?id=10.1257/aer.20190553>.
- [3] Frederick R. Adler. *Modeling the Dynamics of Life: Calculus and Probability for Life Scientists*. 1998, pp. xvi + 784. ISBN: 0-534-34816-5.

Features

Reference II

- [4] Donald R. Davis and David E. Weinstein. “The Factor Content of Trade”. In: *Handbook of International Trade*. John Wiley Sons, Ltd, 2003. Chap. 5, pp. 119–145. ISBN: 9780470756461. DOI: <https://doi.org/10.1002/9780470756461.ch5>.
- [5] Felipe Goncalves and Steven Mello. “A Few Bad Apples? Racial Bias in Policing”. In: *American Economic Review* 111.5 (May 2021), pp. 1406–41. DOI: 10.1257/aer.20181607. URL: <https://www.aeaweb.org/articles?id=10.1257/aer.20181607>.

Project

Download

To use this template, you could download the whole project from the overleaf or github page.

► [overleaf link](#)



Project

Still working on...

- Individually stylize the references
 - We can not change the font by `setbeamerfont` and we do not know why
 - We expect to transfer our newcommand `cite's` second argument into the coloring or font size or ordering in printing reference.
- Progress bar on headline.
- Copyright of the icon NTU, and reference from other projects we should refer to.