Beamer Presentation Tutorial Learning by Example

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For more resources, check out https://github.com/mlots2-illinois

What is Beamer?

- Do you use iClicker?
- More things that you can do
 - Computer code
 - Images
 - Equations
- Columns and tables, too!
- Variations on the title slide

Overview

What is Beamer?

Beamer is a LaTeX class used for creating professional presentations. It allows users to:

- Organize content into frames and sections.
- · Use mathematical typesetting.
- Incorporate images, tables, and multimedia.
- Customize themes and layouts.

I'm a frame title!

I'm a subtitle!

What is Beamer?

But if you choose to, you can omit both the title and subtitle. To customize the banner at the top, use the /section command.

Basic Structure of a Beamer Presentation

A basic Beamer presentation consists of:

Title page

What is Beamer?

- · Sections and frames
- Overlay commands

Text and Font Styles

You can change the font style using the following commands:

- Bold
- Italic
- <u>Underlined</u>
- Typewriter font

Using Colors

What is Beamer?

You can use color for text, blocks, and items: Red text and Blue text.

Here is a colored block, how neat!

Colored Block

This block uses custom colors.

Blocks and Alerts

You can create alerts or blocks for important information:

Important

This is an important note.

Example

This is an example block.

Lists

What is Beamer?

You can create itemized lists:

- Item 1
- Item 2

Or an enumerated list:

- 1. First item
- 2. Second item



Which of the following best illustrates how the concept of *social constructivism* is applied to understanding societal norms and values?

- A. Social norms are biologically encoded and evolve over time based on genetic predispositions.
- B. Social values emerge from a consensus among individuals within a society, reflecting shared meanings and agreements.
- C. Power dynamics between dominant and subordinate groups shape norms through coercion and exploitation.
- D. Institutions such as education and religion function to maintain societal stability by reinforcing pre-existing values.
- E. Individual behavior is determined by structural forces that operate independently of human agency.

More things that you can do

What is Beamer?

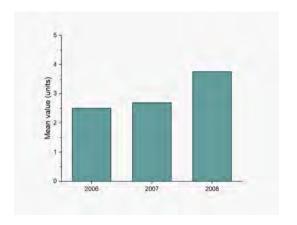
Here is an example of a simple Stata script:

use dataset.dta, clear generate age_squared = age^2 regress income age age_squared summarize income age age_squared

Full-Page Image



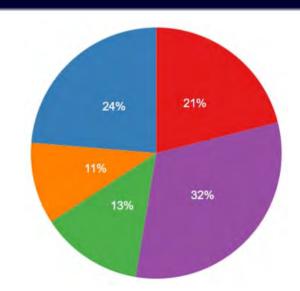
Half-Page Image and Text



Beamer makes it simple to combine images and text. You can adjust the proportions of each column to suit your content.

Half-Page Image and Text (flipped)

You can also flip items around by rearranging the items on the slide. How neat!



$$\frac{dr_a}{d\tau} = \frac{T_0}{H_r} \left(\left[1 - \prod_{j=1}^{K_a} \rho(\alpha_{aj}r_j, S_{aj}, k_{aj}) \right] \prod_{m=K_a+1}^{J_a} \rho(\alpha_{am}r_m, S_{am}, k_{am}) - r_a(t) \right)$$

Columns Example

Column 1:

- Point 1
- Point 2
- Point 3

Column 2:

- · Another point
- Yet another point

Table Example

Item	Quantity	Price
Apples	5	\$3.00
Bananas	2	\$1.50
Cherries	10	\$7.00

Table: A simple table.

If you don't like any of the title slides, or are looking for section slides, consider using some of these next slides!







Your Title Here

Your Subtitle Here



Conclusion

This concludes our Introduction to Beamer in LaTeX. You can create professional presentations with ease by utilizing these features.