# **BEAMER FEATURES**

# Michael Lacey

Georgia Institute of Technology

October 16, 2004

MICHAEL LACEY (GEORGIA TECH)

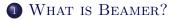
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# **2** Some Math





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• A Latex package to create structured powerpoint style presentations.

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- A 'Beamer' is the thing that takes video input from say a computer.

Image: A matrix

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- The package has article, and handout modes as well.
- Works entirely inside of Latex !
- And is freely available. Google latex beamer
- Get the TeX file for this presentation to see how things work.

• Easy overlays, creates slides and handouts as well. Read the beamer manual.

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- Fully supports hypertext features.
- And is actively being developed, by Till Tantau.

• beamer is not part of a standard LaTex installation. Most will need to get the packages.

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$$\sum_{i,j=1}^{\infty} \otimes_{k=1}^{\mathsf{a}_{i,j}} M_{k,j}$$

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$$\sum_{i,j=1}^{\infty}\otimes_{k=1}^{a_{i,j}}M_{k,j}$$

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# THEOREM LIKE ENVIORONMENTS

MICHAEL LACEY (GEORGIA TECH)

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# THEOREM (NAME OF THE THEOREM COMES AS OPTIONAL AR-GUMENT)

 $H_b$  is bounded iff there is a bounded function  $\beta$  such that  $P_+b = P_+\beta$ .

# THEOREM (NAME OF THE THEOREM COMES AS OPTIONAL AR-GUMENT)

 $H_b$  is bounded iff there is a bounded function  $\beta$  such that  $P_+b = P_+\beta$ . And a second part of the Theorem

Notice how the second part of the Theorem was revealed on the next slide.

The "theorem like examples" include as predefined formats theorem, corollary, proof, example, examples, definition. Usage is

Theorems, Corollaries, and Definitions have the Presentations.

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Theorems, Corollaries, and Definitions have the Presentations.

### PROOF.

Proofs put the little QED boxes at the end.

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Theorems, Corollaries, and Definitions have the Presentations.

### Proof.

Proofs put the little QED boxes at the end.

#### EXAMPLES

 $H_b$  is bounded iff there is a bounded function  $\beta$  such that ...

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# Proof.

Proofs put the little QED boxes at the end.

#### EXAMPLES

 $H_b$  is bounded iff there is a bounded function  $\beta$  such that ...

YOUR NAME GOES HERE

Use the beginblock command.

Theorems, Corollaries, and Definitions have the Presentations.

# Proof.

Proofs put the little QED boxes at the end.

#### EXAMPLES

 $H_b$  is bounded iff there is a bounded function  $\beta$  such that ...

# YOUR NAME GOES HERE

Use the beginblock command.

# A Key Point

Use alertblock for those key points and examples.

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• <+> Means that this material should appear on the next slide. <+-> means that this appears on the next slide, and all subsequent slides.

• gives us shown on 2, 3, 4 slides, and alerted on the 3rd slide.

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- This will appear on the 3rd and 5th slide, with the command <3,5>
- gives us shown on 2, 3, 4 slides, and alerted on the 3rd slide.

• gives us shown on 2, 3, 4 slides, and alerted on the 3rd slide.

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Overlay specifications are given in side of < >. Examples are: And this only appears on the 5th slide.

- This will appear on the 3rd and 5th slide, with the command <3,5>
- And use <+-> for incremental uncoverings. Very handy, especially when you move things around as you write the file.

Some first words for the slide only: Only appearing on this slide .

textbf, textcolor : Some words randomly repeated.

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Some first words for the slide uncover: Some words uncovered, and occupying the previous places. textbf, textcolor : Some words randomly repeated.

Some first words for the slide uncover: Some words uncovered, and occupying the previous places. textbf, textcolor : Some words randomly repeated.

Some first words for the slide uncover: Some words uncovered, and occupying the previous places. textbf, textcolor : Some words randomly repeated. alert: Heads up!

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BETTLE From any Comprehensive TeX Archive Network mirror.

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## BOXED TEXT

There are three options for Boxed Text: (1) You can use LaTeX's fbox command, (2) the commands created by fancybox. See the LaTeX Companion for more details. (3) beamerboxes, see the beamer user guide. These two examples use beamerboxes.

beamerboxesrounded, with option shadow=true

$$\int f(x-y)g(x+y)\,\frac{dy}{y}$$

Some important point on a postit.

An important illustration goes here.

Typically some text should go on the right

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- You'll probably want to include some graphics.
- If you are familiar with the graphics package, it works in beamer. The basic command is includegraphics
- The graphics/drawing package pgf is loaded automatically, and it's basic command is pgfuseimage .
- Both of these commands are overlay aware!

The LaTeX package color and xcolor are automatically loaded. Some colors are automatically defined: red, green, blue, cyan, magenta, yellow, gray, lightgray.

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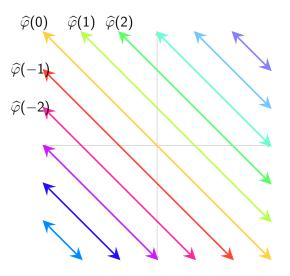
To go beyond this, you'll need to define some additional colors, and get a little more comfortable with the color and xcolor packages. Some examples: softred, softblue, softgreen, softrg, softrb, softgb.

The pgf package has some nice features for drawing illustrations, all compatible with the uncover and only features of beamer.

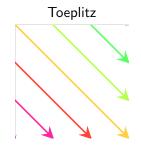
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## THE pgf PACKAGE

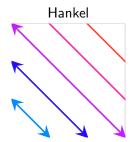
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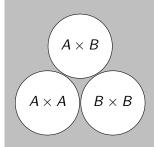
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See the code to see how this was done.

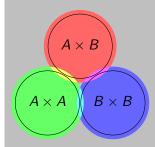


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