Title

Subtitle





■ email@memphis.edu

The University of Memphis
Event Information

- 1. General
- 2. Environments
- 3. Commands
- 4. Math
- 5. Figures
- 6. Animations
- 7. References



1

General

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→ Side-by-Side Bulleted List + Figure Slide Example

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→ Side-by-Side Figures Slide Example





- General colors: niceblue nicered nicegreen nicepink nicegray
- Grays: lightgray mediumgray darkergray
- CSU colors: uofmblue uofmbluelighter uofmbluedarker
- Beamer theme colors (global): fixedbgcolor primarycolor graycolor
- Beamer theme colors (light/dark): textcolor textcolorlight textcoloremph bgcolorlight edgecolor
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- → Nested itemize and enumerate Environments
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 - 1.1 Oranges
 - 1.2 Oranges
 - 1.2.1 Oranges
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2

Environments



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Theorem (Some Text)

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Definition (Some Text)

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Algorithm (Some Text)

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→ Special Call-Out Boxes (1)

These are intended to be in an itemize/enumerate environment



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- These are intended to be in an itemize/enumerate environment (add a port)
- These are intended to be in an itemize/enumerate environment



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→ Special Call-Out Boxes (3)



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→ Code Listing

Some Matlab code:

```
1 % This program prints Hello, world!
2
3 disp("Hello, world!")
   Some Python code:
1 # This program prints Hello, world!
2
3 print('Hello, world!')
```

Be sure to use the myslidefragile environment!

3

Commands

Use 1 \parnote and 2 \parnotefull for 3 footnotes 4,5 Use the b slide option when you have footnotes

¹ This is the first one ² This is the second one ³ This is the third one that takes up the rest of the line

⁴ This is the forth one that takes up the rest of the line

⁵ This is the fifth one

\urlfull with an example # https://www.engr.colostate.edu/~drherber and in a foot-note1

\urlhttps with an example www.engr.colostate.edu/~drherber and in a footnote² \urlvideo with an example www.youtube.com/watch?v=N17Od3rY0bA and in a footnote³

¹ • https://www.engr.colostate.edu/~drherber ² • www.engr.colostate.edu/~drherber

³ www.voutube.com/watch?v=N17Od3rY0bA

→ Other Commands

Use \qedsymbol for □
Use \myterm for terms like #Term (see next slide and \mytermslides)
Use \myline for a horizontal dividing line

Use \eqrepeat to repeat the last equation number (good when you want to repeat an equation on the next slide):

$$A = \frac{\pi r^2}{2} \tag{1}$$

$$A = \frac{\pi r^2}{2} \tag{1}$$

→ Examples of Terms #Term Title

#Term Text 1 Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit. vestibulum ut, placerat ac, adipiscing vitae, felis. #Term Text 2 Curabitur dictum gravida mauris.1

Theorem (Great Theorem)

Curabitur dictum gravida mauris. #Term Theorem Text

- 1. #Term List 1
- 2. #Term List 2



#Term Box

Doesn't work in equation environments, but you can use inline math such as #Term $x - \mathcal{L} - x$

They work in a footnote #Term Footnote

Use \matlabfunction for the hyperlinked MATLAB example below



ex_matlab_basics.m

(4

Math

→ subequations and Tags

Multi-line aligned equation with some custom tags:

$$y = x^{2}$$

$$z = \sin(x)$$

$$p = \log(x)$$

$$q = e^{x}$$
(2a)
(2b)

This is an equation: $A = \frac{\pi r^2}{2}$. Here it is again:

$$A = \frac{\pi r^2}{2} \tag{3}$$

Another a symbol is α

→ bNiceMatrix and pNiceMatrix Environments

$$\begin{array}{ccc}
c_1 & c_2 & c_3 \\
r_1 & 1 & 2 & 3 \\
r_2 & 4 & 5 & 6
\end{array}$$
(4)

Figures



Nunc sed pede. Praesent vitae lectus. Praesent neque justo, vehicula eget, interdum id, facilisis et, nibh. Phasellus at purus et libero lacinia dictum. Fusce aliquet. Nulla eu ante placerat leo semper dictum. Mauris metus. Curabitur lobortis. Curabitur sollicitudin hendrerit nunc. Donec ultrices lacus id ipsum.











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eral Environments Commands Math Figures Animations References # | 0000 000000 000 000 000

→ myoverpiccolgrid Environment with a Grid



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→ Side-by-Side Recommended Figure Sizes

Recommended figure width 2 in (below) Recommended figure height 1.5 in (below)





Matlab recommended figure width 2.25 in Matlab recommended figure height 1.6875 in



Animations

→ Automatic Itemize Animations with [<+->]

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→ Special Call-Out Boxes (2)



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References

\cite with an example: Shampine 2007

\textcite with an example: Shampine (2007)

\parencite with an example: (Shampine 2007)

\fullcite with an example: L. F. Shampine (Aug. 2007). "Accurate numerical derivatives in MATLAB". ACM Transactions on Mathematical Software 33.4, p. 26. DOI:

10.1145/1268776.1268781

\citetitle with an example: "Accurate numerical derivatives in MATLAB"

\citetitle with an example: Engineering Design Optimization

\citeauthor with an example: Shampine

\citeurl with an example: # https://textbooks.math.gatech.edu/ila/ila.pdf

Multiple citations work like this example (Martins and Ning 2021; Boyd and Vandenberghe 2009; Cipra 2000) and in a footnote¹

See command \refslides for printing the references

Martins and Ning 2021: Boyd and Vandenberghe 2009: Cipra 2000

- # Term is on Slide 17
- # Term Text 1 is on Slide 18
- # Term Text 2 is on Slide 18
- # Term Theorem Text is on Slide 18
- # Term List 1 is on Slide 18
- # Term List 2 is on Slide 18
- # Term Box is on Slide 18
- # Term $x \mathcal{L} x$ is on Slide 18
- # Term Footnote is on Slide 18
- # Term Title is on Slide 18

- S. Boyd and L. Vandenberghe (2009). *Convex Optimization*. 7th ed. Cambridge University Press
- B. A. Cipra (2000). "The Best of the 20th Century: Editors Name Top 10 Algorithms". SIAM News 33.4. URL: https://archive.siam.org/pdf/news/637.pdf
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- L. F. Shampine (2007). "Accurate numerical derivatives in MATLAB". ACM Transactions on Mathematical Software 33.4. DOI: 10.1145/1268776.1268781

Questions?



Title Number

Author 1 Author 2 Author 3

Link1 Link2

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→ Appendix Slide

