Title

Name

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





→ Bulleted List Slide Example

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

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→ Top-Bottom Figure + Bulleted List 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: csugreen csugold csugreendarker
- Beamer theme colors (global): fixedbgcolor primarycolor graveoior
- Beamer theme colors (light/dark): textcolor textcolorlight textcoloremph bgcolorlight edgecolor

- → Nested itemize and enumerate Environments
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Environments

2



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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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• These are intended to be in an itemize/enumerate environment



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→ Special Call-Out Boxes (2)



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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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→ 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

(a)

→ Footnote Commands

Use¹ \parnote and² \parnotefull for³ 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 **6** https://www.engr.colostate.edu/~drherber ² **6** www.engr.colostate.edu/~drherber

³ ■ www.youtube.com/watch?v=N17Od3rY0bA

→ Other Commands

Use \qedsymbol for \square Use \mbox{myterm} for terms like #Term (see next slide and $\mbox{mytermslides}$) Use \mbox{myline} for a horizontal dividing line

Use $\ensuremath{\verb| eqrepeat|}$ 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 - f - x

They work in a footnote #Term Footnote

→ MATLAB Example

Use $\mbox{\mbox{\it matlab} function}$ for the hyperlinked MATLAB example below



ex_matlab_basics.m

(4)

Math

→ subequations and Tags

Multi-line aligned equation with some custom tags:

$$y = x^2 (2a)$$

$$z = \sin(x)$$

$$p = \log(x) \tag{2b}$$

$$q = e^{x} \tag{A}$$

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)

⑤ Figures

→ myfig Command





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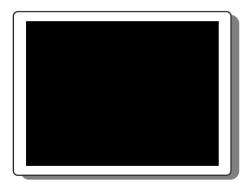
Above Centered Text

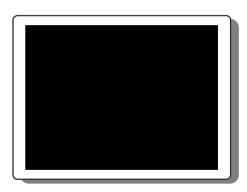




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Animations

(6

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→ Automatic Itemize Animations with [<+->]

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References

C

\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/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

→ Terms

- # 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

→ References

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Questions?



Title Number

Author 1 Author 2 Author 3

Link1 Link2 → Appendix Slide

