Title

Name



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





→ Bulleted List Slide Example

- Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
- Curabitur dictum gravida mauris.
- Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.
- Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

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

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→ Top-Bottom Figure + Bulleted List Slide Example



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- Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.
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- 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

Environments Commands Math Figures References #

→ Nested itemize and enumerate Environments

- Apples
 - Apples
 - Apples
 - Apples
 - Apples
 - Apples
- Apples
- 1. Oranges
 - 1.1 Oranges
 - 1.2 Oranges
 - 1.2.1 Oranges
 - 1.2.2 Oranges
 - 1.3 Oranges
- 2. Oranges
- 3. Oranges

<u>ര</u>

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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Important

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→ Special Call-Out Boxes (2)

Optional

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[Review Context] Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus.



[Review Context] Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus.



[Review Context] Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus.

→ 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

હ

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 **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 □
Use \myterm for terms like #Term (see next slide and \mytermslides)
Use \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 $x - \mathcal{L} - x$

¹ They work in a footnote #Term Footnote

(4)

Math

→ subequations and Tags

Multi-line aligned equation with some custom tags:

$$y = x^{2}$$

$$z = \sin(x)$$
(2a)

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

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

→ eqbox Command

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

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

⑤ Figures

→ myfig Command



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.









→ myoverpic Environment



Above Centered Text







Above Centered Text

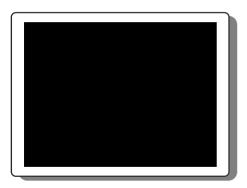


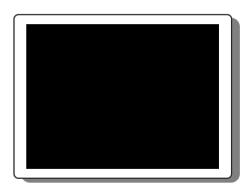


Slide width \paperwidth 5.5129 in 139.99835 mm 398.33858pt Slide height \paperheight 3.54399 in 89.99893 mm 256.0748pt Text width \textwidth 4.72533 in 119.9986 mm 341.43309pt Text height \textheight 3.30107 in 83.82994 mm 238.52208pt New line height \baselineskip 0.15154 in 3.84843 mm 10.95pt Item separation \myitemsep 0.04152 in 1.05437 mm 3.0pt

→ 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

6

References

(6

\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/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 16
- # Term Text 1 is on Slide 17
- # Term Text 2 is on Slide 17
- # Term Theorem Text is on Slide 17
- # Term List 1 is on Slide 17
- # Term List 2 is on Slide 17
- # Term Box is on Slide 17
- # Term $x \mathcal{L} x$ is on Slide 17
- # Term Footnote is on Slide 17
- # Term Title is on Slide 17

→ References

- 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
- D. Margalit and J. Rabinoff (2017). Interactive Linear Algebra. Georgia Institute of Technology. URL: https://textbooks.math.gatech.edu/ila/ila.pdf
- J. R. R. A. Martins and A. Ning (2021). Engineering Design Optimization. October 5th, 2021 edition. Cambridge University Press. DOI: 10.1017/9781108980647
- L. F. Shampine (2007). "Accurate numerical derivatives in MATLAB". ACM Transactions on Mathematical Software 33.4. DOI: 10.1145/1268776.1268781

Questions?



Au

Author 1 Author 2 Author 3

Title Number

Link1 Link2 → Appendix Slide

