



Title

Subtitle

 Name



 email@colostate.edu
 University – Department
Event Information

→ Outline

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



①

General

→ Bulleted List Slide Example

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
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- Nam arcu libero, nonummy eget, consectetur 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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→ Side-by-Side Figures Slide Example



→ Colors

- General colors: `niceblue` `nicered` `nicegreen` `nicepink` `nicepurple` `nicegray`
- Grays: `lightgray` `mediumgray` `darkergray`
- CSU colors: `csugreen` `csugold` `csugreendarker`
- Beamer theme colors (global): `fixedbgcolor` `primary-color` `graycolor`
- Beamer theme colors (light/dark): `textcolor` `textcolorlight` `textcoloremph` `bgcolorlight` `edgecolor`
- Change the colors in `.config/2-colors.tex`

→ 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

②

Environments

→ Quote

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→ Theorem, Definition, and Algorithm

Theorem (Some Text)

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

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

Remark



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Important



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Upcoming



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Question



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→ Special Call-Out Boxes (2)

Remark



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Important



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- Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
 - Note use of `\unskip` for better spacing with boxes after nested lists

Question



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→ Special Call-Out Boxes (3)

Optional

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Review

[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

[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.

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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





→ 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


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→ URL Commands

- `\urlfull` with an example  <https://www.engr.colostate.edu/~drherber> and in a footnote¹
- `\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
- `\urlyoutube` with an example  N17Od3rY0bA

¹  <https://www.engr.colostate.edu/~drherber>

²  www.engr.colostate.edu/~drherber

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

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→ Other Commands

- Use `\qedsymbol` for \square
- 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, consectetur 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*

Remark



#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*

→ MATLAB Example

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:

$$y = x^2$$

(2a)

$$z = \sin(x)$$

$$p = \log(x)$$

(2b)

$$q = e^x$$

(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

$$\begin{array}{c} \mathbf{r}_1 \\ \mathbf{r}_2 \end{array} \begin{array}{ccc} \mathbf{c}_1 & \mathbf{c}_2 & \mathbf{c}_3 \\ \left[\begin{array}{ccc} 1 & 2 & 3 \\ 4 & 5 & 6 \end{array} \right] \end{array} \tag{4}$$

$$\begin{array}{c} L_1 \\ \vdots \\ \vdots \\ \vdots \\ L_4 \end{array} \begin{array}{c} C_1 \cdots \cdots \cdots C_4 \\ \left(\begin{array}{cccc} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{31} & a_{32} & a_{33} & a_{34} \\ a_{41} & a_{42} & a_{43} & a_{44} \end{array} \right) \\ C_1 \cdots \cdots \cdots C_4 \end{array} \begin{array}{c} L_1 \\ \vdots \\ \vdots \\ \vdots \\ L_4 \end{array} \tag{5}$$

⑤

Figures

→ myfig Command



→ myfigcol 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



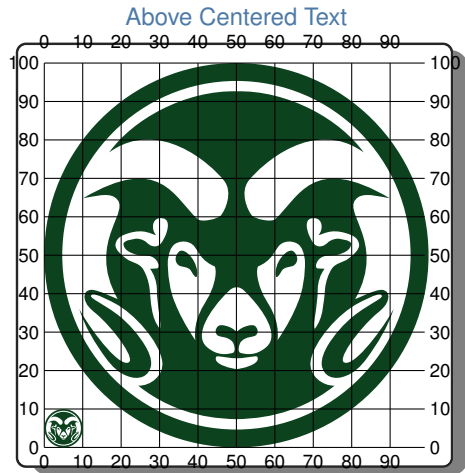
→ myoverpiccol Environment



Above Centered Text



→ myoverpiccolgrid Environment with a Grid



→ Sizes

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

Animations

→ Automatic Itemize Animations with [<+>]

- To see the animations, ensure that `handout` in `slides.tex` is removed from the `documentclass` options
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
- Curabitur dictum gravida mauris.
- Here we have a *#Term in an animated slide*
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→ Animations Custom Ordering

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→ Special Call-Out Boxes (2) — Animated

Remark



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Important



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Upcoming



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 - Note use of `\unskip` for better spacing with boxes after nested lists

Question



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Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

→ myfigcol Command — Animated

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References

→ References with Bib \LaTeX

`\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

¹ 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
- # *Term in an animated slide* is on Slide 30

→ 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>
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- 📖 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?



Link1
Link2

Title
Number

Author 1
Author 2
Author 3

→ Appendix Slide

