



# A $\text{\LaTeX}$ Beamer Theme for N.R.L. Presentations

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## **N.R.L. Beamer Theme**

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# **N.R.L. Beamer Theme**

This package provides a  $\text{\LaTeX}$  Beamer theme for presentations that mimic the N.R.L. corporate presentation style.

Historically, Microsoft Word and PowerPoint have been limited in their support for integrating equations with text. MathType alleviates the problem somewhat, but the basic difficulty of seamlessly integrating equations with text remains. For those of us who write papers and presentations that include extensive mathematics, this situation is a problem that many of us have resolved by turning to  $\text{\LaTeX}$ . With Beamer, one can simply cut text and equations from a paper and paste them into a presentation — or conversely.

After unzipping the package, either place all files in a directory where you are preparing a talk, or more properly in the  $\text{\LaTeX}$  search path on your computer:

**Linux** `$HOME/texmf/tex/latex/NRLpresentation`

**Mac OS X** `$HOME/Library/texmf/tex/latex/NRLpresentation`

**Windows** `%USERPROFILE%\texmf\tex\latex\NRLpresentation`

TeXLive and MacTeX know about these default directories, and nothing further need be done. Some other  $\text{\LaTeX}$  distributions may require running **texhash** to rebuild a table of directories containing all of the style packages.

```
\documentclass{beamer}
\usetheme{NRLpresentation}
\title{...}
\subtitle{...} % optional
\author{...}
\institute{U.S. Naval Research Laboratory\\
  Acoustics Division, Washington DC}
\date{\today}
\NRLcredit{Work Supported by ...} % optional
\NRLpatents{...} % optional list of patents
\NRLdist{...} % optional distribution statement
\NRLmark{MARK} % optional security marking
\titlegraphic{\includegraphics{magnificant-image}} % optional
\begin{document}
\begin{ frame }
...
\end{ frame }
\end{document}
```

# Beamer Class Options

**syntax** `\documentclass[option,option = value,...]{beamer}`

**font size** [ 8pt, 9pt, 10pt, 11pt (default), 12pt, 14pt, 17pt, 20pt ]

**aspectratio=** [ 1610, 169, 149, 54, 43 (default), 32 ]

produces ratios: 16:10, 16:9, 14:9, 5:4, 4:3, 3:2

- These options are useful for fitting your talk within slides.
- Aspect ratio enables you to match a projector-screen shape.
  - Keep in mind that a layout designed for one ratio may not fit another without adjustment.
- Font size is a relative number.
  - It also scales slide titles.
  - The 11pt default is large, as seen in this documentation.

**syntax** `\usetheme[option = value,...]{NRLpresentation}`

**titlepage=** choose a format for the title page

**corporate** (default)

**graphic** use with a `titlegraphic`

**classic** similar to Beamer default theme

**titlecolor=** choose background color of title page and slide heads

**facets** (default) with white text

**blue** with white text

**white** with black text

**pagecolor=** choose the background color of slides

**white** (default) with black text

**blue** with white text

**navy** with white text



**bullets=** choose the type of bullets you prefer

**dotdash** (default)

**mixed**

**triangles**

**balls**

**dashes**

**squares**

**circles**

**underline=** choose whether to underline slide titles

**false** (default)

**true**

**navigation=** choose whether to show the Beamer navigation bar

**false** (default)

**true**

The following optional commands print properly formatted N.R.L.–specific information on the title page.

**NRLcredit** {sponsor recognition}

**NRLpatents** {list of patents}

**NRLdist** {distribution statement}

**NRLmark** {MARK} page classification mark

# Examples



# Title-Page Formats



# A $\text{\LaTeX}$ Beamer Theme for N.R.L. Presentations

[ titlepage = corporate ] (default)

Any distribution statement will show up here.

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SAMPLE // CLASSIFICATION

Example Patents  
7,749,438 and 7,754,145



# A $\text{\LaTeX}$ Beamer Theme for N.R.L. Presentations

[ titlepage = graphic ]

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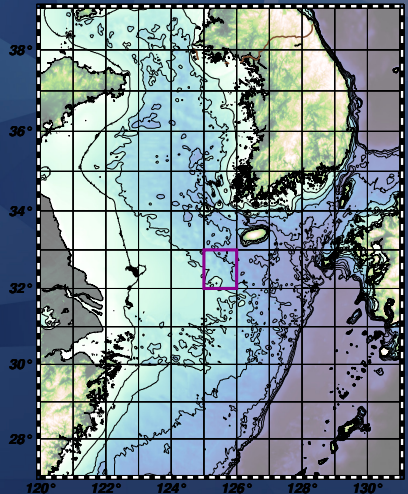
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Acoustics Division, Washington DC

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Any distribution statement will show up here.

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Example Patents  
7,749,438 and 7,754,145





# A L<sup>A</sup>T<sub>E</sub>X Beamer Theme for N.R.L. Presentations

[ titlepage = classic ]

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## Title-Page Colors





# A $\text{\LaTeX}$ Beamer Theme for N.R.L. Presentations

[ titlecolor = facets ] (default)

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# A L<sup>A</sup>T<sub>E</sub>X Beamer Theme for N.R.L. Presentations

[ titlecolor = blue ]

Any distribution statement will show up here.

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May 14, 2018

SAMPLE // CLASSIFICATION

Example Patents  
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# A $\text{\LaTeX}$ Beamer Theme for N.R.L. Presentations

[ titlecolor = white ]

Any distribution statement will show up here.

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SAMPLE // CLASSIFICATION

Example Patents  
7,749,438 and 7,754,145



## Page Colors

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

## [ bullets = dotdash ]

- Level 1
  - Level 2
    - Level 3

# Pagecolor

[ pagecolor = blue ]

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

## [ bullets = dotdash ]

- Level 1
  - Level 2
    - Level 3

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

## [ bullets = dotdash ]

- Level 1
  - Level 2
    - Level 3



## **Underlined Titles**



[ titlecolor = facets, pagecolor = blue, underline = true ]

---

An underlined slide title is nice when the title and page colors are the same.

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

[ bullets = dotdash ]

- Level 1
  - Level 2
    - Level 3

[ titlecolor = white, pagecolor = white, underline = true ]

---

A white page with black type is useful for printing drafts and handouts.

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

[ **bullets = dotdash** ]

- Level 1
  - Level 2
    - Level 3

UNCLASSIFIED



# Classification Marks

UNCLASSIFIED

# Page Marks

**syntax**    `\NRLmark{MARK}`

- This command places classification marks at the top and bottom of each page.
- Typically placed in the preamble, it may be reissued between frames to change the marking.
- Both arguments are mandatory, but may be empty {}.
- The marks may be resized or colored by modifying the arguments: `{\huge\textcolor{red}{MARK}}`

# Paragraph Marks

Because paragraph marks must be typed so frequently, some quickly typed shortcuts are provided for a few common markings.

## List of Paragraph Marking Commands

COMMAND	PRODUCES
<code>\u</code>	(U)
<code>\uf</code>	(U//FOUO)
<code>\c</code>	(C)
<code>\s</code>	(S)
<code>\sn</code>	(S//NF)

## Bullets

Beamer has only three levels of bullets. When a slide comprises only a list, the outermost level should be a **block** environment, which effectively provides a fourth level.

## [ bullets = dotdash ] (default)

- Level 1
  - Level 2
    - Level 3

## [ bullets = mixed ]

- Level 1
  - Level 2
    - Level 3

## [ bullets = dashes ]

- Level 1
  - Level 2
    - Level 3



## [ bullets = triangles ]

- ▶ Level 1
  - ▶ Level 2
    - ▶ Level 3

## [ bullets = squares ]

- Level 1
  - Level 2
    - Level 3

## [ bullets = balls ]

- Level 1
  - Level 2
    - Level 3

## [ bullets = circles ]

- ⊗ Level 1
  - ⊙ Level 2
    - ⊙ Level 3

## Figures & Tables

## Figures

**syntax**    `\begin{NRLfigure}{ $\langle mark \rangle$ }{ $\langle title \rangle$ }{ $\langle caption \rangle$ }`

- All three arguments are mandatory, but may be empty {}.
- No frame is printed when the mark is empty.
- The mark, title & caption may be resized or colored by modifying the arguments: `{\huge\textcolor{red}{MARK}}`
- Hyphenation is suppressed within captions.
- Line breaks (`\\`) do not work within captions.

## example

```
\begin{NRLfigure}{UNCLASSIFIED}{TITLE}{CAPTION}  
  \includegraphics[width=0.4\columnwidth]{NRL-Navy-Seal}%  
\end{NRLfigure}
```



**Figure :** For a standard LaTeX figure, captions are ragged right within the full width of a slide, and are set in the normal size font. The quick brown fox jumped over the lazy dog. The quick brown fox jumped.

## OPTIONAL TITLE



For an N.R.L. figure, captions span the figure width down to a minimum size, and are set in footnote size font. Also, an optional title is provided.

(U) TITLE



(U) Short captions are centered.



## Tables

**syntax** `\begin{NRLtable}{\langle mark \rangle}{\langle caption \rangle}`

- Both arguments are mandatory, but may be empty {}.
- The mark & caption may be resized or colored.
- Line breaks (`\\`) do not work within captions.
- Table elements and notes may be resized either individually or as a group.

## example

```
\begin{NRLtable}{}{Table caption.}
\begin{tabular}{|l|c|c|c|c|} \hline
& Day 1 & Day 2 & Day 3 & Day 4 \\ \hline
Start Time (day) & 347.75 & 350.50 & 353.50 & 357.80 \\ \hline
End Time (day) & 348.75 & 351.50 & 354.50 & 358.80 \\ \hline
300 Hz SNR (dB) & 28.7 & 31.5 & 26.3 & 26.0 \\ \hline
500 Hz SNR (dB) & 18.6 & 20.5 & 18.5 & 17.0 \\ \hline
Wave Height (m) & 1.7 & 2.0 & 2.1 & 1.5 \\ \hline
Wind Speed (m/s) & 7.8 & 6.7 & 7.1 & 6.5 \\ \hline
\end{tabular}
\end{NRLtable}
```

## example

```
\begin{NRLtable}{}{Table Caption}
  %\normalsize % optionally resize table elements here
  \begin{tabular}{|l|c|c|c|c|} \hline
    & Day 1 & Day 2 & Day 3 & Day 4 \\ \hline
    Start Time (day)\tnote & 347.75 & 350.50 & 353.50 & 357.80 \\ \hline
    End Time (day)\tnote{a} & 348.75 & 351.50 & 354.50 & 358.80 \\ \hline
    300 Hz SNR (dB) & 28.7 & 31.5 & 26.3 & 26.0 \\ \hline
    500 Hz SNR (dB) & 18.6 & 20.5 & 18.5 & 17.0 \\ \hline
    Wave Height (m)\tnote & 1.7 & 2.0 & 2.1 & 1.5 \\ \hline
    Wind Speed (m/s)\tnote{b} & 7.8 & 6.7 & 7.1 & 6.5 \\ \hline
  \end{tabular}
  \begin{tablenotes}
    %\footnotesize % optionally resize table notes here
    \item The start and end times are fractional days within year 2003.
    \item The wave height and wind speed were acquired by NOAA-NDBC buoy 44004.
    \note Unnumbered additional comments like this are also supported.
    \noteN Numbered additional comments like this are also supported.
    \noteN Table notes are set in footnotesize.
  \end{tablenotes}
\end{NRLtable}
```

**Table :** For a standard LaTeX table, captions are ragged right within the full width of a slide, and are set in the normal size font. The quick brown fox jumped over the lazy dog. The quick brown fox jumped.

	Day 1	Day 2	Day 3	Day 4
Start Time (day)	347.75	350.50	353.50	357.80
End Time (day)	348.75	351.50	354.50	358.80
300 Hz SNR (dB)	28.7	31.5	26.3	26.0
500 Hz SNR (dB)	18.6	20.5	18.5	17.0
Wave Height (m)	1.7	2.0	2.1	1.5
Wind Speed (m/s)	7.8	6.7	7.1	6.5

For an N.R.L. table, captions span the table width down to a minimum size, and are set in normal size font as are the table items. Hyphenation is suppressed.

	Day 1	Day 2	Day 3	Day 4
Start Time (day)	347.75	350.50	353.50	357.80
End Time (day)	348.75	351.50	354.50	358.80
300 Hz SNR (dB)	28.7	31.5	26.3	26.0
500 Hz SNR (dB)	18.6	20.5	18.5	17.0
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Wind Speed (m/s)	7.8	6.7	7.1	6.5

(U) Short captions are centered.

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	Day 1	Day 2	Day 3	Day 4
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300 Hz SNR (dB)	28.7	31.5	26.3	26.0
500 Hz SNR (dB)	18.6	20.5	18.5	17.0
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Wind Speed (m/s)	7.8	6.7	7.1	6.5

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The `threeparttable` package is included within the `NRLtable` environment to support the annotation of items.

	Day 1	Day 2	Day 3	Day 4
Start Time (day) <sup>a</sup>	347.75	350.50	353.50	357.80
End Time (day) <sup>a</sup>	348.75	351.50	354.50	358.80
300 Hz SNR (dB)	28.7	31.5	26.3	26.0
500 Hz SNR (dB)	18.6	20.5	18.5	17.0
Wave Height (m) <sup>b</sup>	1.7	2.0	2.1	1.5
Wind Speed (m/s) <sup>b</sup>	7.8	6.7	7.1	6.5

<sup>a</sup> The start and end times are fractional days within year 2003.

<sup>b</sup> The wave height and wind speed were acquired by NOAA-NDBC buoy 44004.

*Note:* Unnumbered additional comments like this are also supported.

*Note 1:* Numbered additional comments like this are also supported.

*Note 2:* The default font size for table notes is `footnotesize`.