

# $\text{\LaTeX}$ Programming: Beamer Presentations

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# Benefits

- Professional looking presentations
- Written in  $\text{\LaTeX}$
- Nice overlay effects
- Automatic navigation bars

# Drawbacks

- Requires installation of Beamer package and dependencies
- No fancy animations (though some would consider this a benefit)

# What You Need

In order to use Beamer, you will need to install the Beamer package and its dependencies (pgf and xcolor) on your machine.

You can get Beamer (and its dependencies) from SourceForge at:

<http://sourceforge.net/projects/latex-beamer/>

# Requirements

## Sample Preamble

```
\documentclass[compress]{beamer}  
\usetheme{Antibes} % Beamer theme v 3.0  
\usecolortheme{lily} % Beamer color theme
```

- Specify the “beamer” document class
- Specify the theme to be used
- Specify a color scheme (optional)

# Preamble Options

## Layout Options

There are many options to pass to the document class declaration. Some common ones are:

- `[slidestop]` - puts frame titles on the top left corner (default=`[slidescentered]`).
- `[compress]` - makes all navigation bars as small as possible (default=`[uncompressed]`).
- `[red]` changes navigation bars and titles to reddish color.
  - blue: Default color scheme
  - red
  - brown
  - blackandwhite: Good for transparencies

# Preamble Options

## Presentation Themes

There are quite a few Beamer themes available for use. This presentation uses “Warsaw”, but there are many others:

- W/o navigation bar: default, boxes, Bergen, Madrid, Pittsburgh, Rochester
- With a treelike navigation bar: Antibes, JuanLesPins, Montpellier.
- With a TOC sidebar: Berkeley, PaloAlto, Goettingen, Marburg, Hannover
- With a mini frame navigation: Berlin, Ilmenau, Dresden, Darmstadt, Frankfurt, Singapore, Szeged
- With section and subsection titles: Copenhagen, Luebeck, Malmoe, Warsaw

# Frames (Slides)

## Sample Frame

```
\section{Beamer Structure} % For navigation
\subsection{Frames} % For navigation
\begin{frame}
\frametitle{Frames (Slides)}
\framesubtitle{Sample Frame}
... slide contents ...
\end{frame}
```



# Frames (Slides)

## Frame Syntax

Frames can be written in both as environments and as commands.

As an environment:

```
\begin{frame}[options]  
... slide contents ...  
\end{frame}
```

As a command:

```
\frame[options]{  
... slide contents ...  
}
```

# Frames (Slides)

## Frame Options

Frames can be given quite a few options:

- `[containsverbatim]` - for using verbatim environment and `\verb` command.
- `[allowframebreaks]` for automatic split of frames if the contents do not fit in a single slide.
- `[shrink]` for shrinking the contents to fit in a single slide.
- `[squeeze]` for squeezing vertical space.

# Links

## Link Commands




Frames can be given quite a few options:

- Beamer also provides functionality for linking between slides
- `\hyperlink{targetname}{\beamerbutton{text}}` to create link
- `\hypertarget{targetname}{text}` to create target
- For example: [Next Page](#)

# Links

## Button Examples

This text is a link target. Beamer offers several buttons for use with linking, including:

-  `\beamerbutton{Click Here}`
-  `\beamergotobutton{Click Here}`
-  `\beamerreturnbutton{Click Here}`

# Framed Text

## Default Scheme

- Beamer supports predefined framed texts:
  - `theorem`, `corollary`, `definition` in structure color frame
  - `examples` in green color frame
  - `block` in structure color frame with your own title
  - `alertblock` in alert color frame with your own title
- they are aware of overlays
- their color schemes are theme dependent

# Framed Text

## Example Theorem

### Theorem (Aaron's Theorem)

*Beamer is the best presentation system out there.*

Code:

```
\begin{thm}[Aaron's Theorem]  
Beamer is the best presentation system out there.  
\end{thm}
```

# Framed Text

## Example Example

### Example

To create an example environment, use `newtheorem`.

Code:

```
\begin{ex}
```

To create an example environment,  
use `\verb|newtheorem|`.

```
\end{ex}
```

# Framed Text

## Example Block

### Summary

Blocks can have their own title.

Code:

```
\begin{block}{Summary}  
Blocks can have their own title.  
\end{block}
```



# Framed Text

## Example Block

### Alert

ZOMG This alert block really grabs your attention!!

Code:

```
\begin{alertblock}{Alert}  
ZOMG This alert block really  
grabs your attention!!  
\end{alertblock}
```

# Overlays

## Overview

- Overlays allow you to create dynamic presentations
- Each slide overlay generates a new PDF page
- There are a variety of overlay styles in Beamer
- Various overlay counters: 'n', 'n-', '-n', 'n1-n2', '+-'

# Stepwise

## Pause

You can use the “pause” command for simple stepwise viewing:

---

```
\begin{itemize}  
\pause \item everything  
\pause \item that has a  
\pause \item beginning  
\pause \item has an end  
\end{itemize}
```

# Stepwise

## Pause

You can use the “pause” command for simple stepwise viewing:

---

```
\begin{itemize}  
\pause \item everything  
\pause \item that has a  
\pause \item beginning  
\pause \item has an end  
\end{itemize}
```

- everything

# Stepwise

## Pause

You can use the “pause” command for simple stepwise viewing:

---

```
\begin{itemize}
```

```
\pause \item everything
```

- everything

```
\pause \item that has a
```

- that has a

```
\pause \item beginning
```

```
\pause \item has an end
```

```
\end{itemize}
```

# Stepwise

## Pause

You can use the “pause” command for simple stepwise viewing:

---

```
\begin{itemize}
```

```
\pause \item everything
```

- everything

```
\pause \item that has a
```

- that has a

```
\pause \item beginning
```

- beginning

```
\pause \item has an end
```

```
\end{itemize}
```

# Stepwise

## Pause

You can use the “pause” command for simple stepwise viewing:

---

<code>\begin{itemize}</code>	
<code>\pause \item everything</code>	• everything
<code>\pause \item that has a</code>	• that has a
<code>\pause \item beginning</code>	• beginning
<code>\pause \item has an end</code>	• has an end
<code>\end{itemize}</code>	

---

Notice that “pause” does not use an overlay counter.

# Stepwise

## Onslide

Use “`onslide<n-> text`” to show text on given slides.

---

Class	A	B	C	D
X	1	2	3	4



# Stepwise

## Onslide

Use “`onslide<n-> text`” to show text on given slides.

---

Class	A	B	C	D
X	1	2	3	4
Z	5	6	7	8

# Stepwise

## Onslide

Use “`onslide<n-> text`” to show text on given slides.

---

Class	A	B	C	D
X	1	2	3	4
Y	3	4	5	6
Z	5	6	7	8

# Stepwise

## Onslide

Use “`onslide<n-> text`” to show text on given slides.

---

Class	A	B	C	D
X	1	2	3	4
Y	3	4	5	6
Z	5	6	7	8

---

Notice `onslide` uses an overlay counter.

# Stepwise

## Onslide

```
\begin{tabular}{l|cccc}  
Class & A & B & C & D \\  
X & 1 & 2 & 3 & 4 \\  
\onslide<3->Y & 3 & 4 & 5 & 6 \\  
\onslide<2->Z & 5 & 6 & 7 & 8  
\end{tabular}
```

# Stepwise

## Item I

Use “`item<n->`” for incremental overlays:

---

```
\begin{itemize}
\item<2-> everything
\item<3-> that has a
\item<4-> beginning
\item<5-> has an end
\end{itemize}
```

---

# Stepwise

## Item I

Use “`item<n->`” for incremental overlays:

---

```
\begin{itemize}
\item<2-> everything
\item<3-> that has a
\item<4-> beginning
\item<5-> has an end
\end{itemize}
```

---

- everything

# Stepwise

## Item I

Use “`item<n->`” for incremental overlays:

---

```
\begin{itemize}
\item<2-> everything
\item<3-> that has a
\item<4-> beginning
\item<5-> has an end
\end{itemize}
```

---

- everything
- that has a

# Stepwise

## Item I

Use “`item<n->`” for incremental overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;3-&gt; that has a</code>	• that has a
<code>\item&lt;4-&gt; beginning</code>	• beginning
<code>\item&lt;5-&gt; has an end</code>	
<code>\end{itemize}</code>	

---



# Stepwise

## Item I

Use “`item<n->`” for incremental overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;3-&gt; that has a</code>	• that has a
<code>\item&lt;4-&gt; beginning</code>	• beginning
<code>\item&lt;5-&gt; has an end</code>	• has an end
<code>\end{itemize}</code>	

---

# Stepwise

## Item II

Use “<+>” for incremental overlays without counters:

---

```
\begin{itemize}[<+>]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything

# Stepwise

## Item II

Use “<+>” for incremental overlays without counters:

---

```
\begin{itemize}[<+>]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything
- that has a

# Stepwise

## Item II

Use “<+>” for incremental overlays without counters:

---

```
\begin{itemize}[<+>]
```

```
\item everything
```

- everything

```
\item that has a
```

- that has a

```
\item beginning
```

- beginning

```
\item has an end
```

```
\end{itemize}
```

---

# Stepwise

## Item II

Use “<+>” for incremental overlays without counters:

---

```
\begin{itemize}[<+>]
```

```
\item everything
```

- everything

```
\item that has a
```

- that has a

```
\item beginning
```

- beginning

```
\item has an end
```

- has an end

```
\end{itemize}
```

---

# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

```
\begin{itemize}  
\item<2-> everything  
\item<4-5> that has a  
\item<5> beginning  
\item<3-6> has an end  
\end{itemize}
```

---

# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

```
\begin{itemize}
\item<2-> everything
\item<4-5> that has a
\item<5> beginning
\item<3-6> has an end
\end{itemize}
```

---

- everything

# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;4-5&gt; that has a</code>	
<code>\item&lt;5&gt; beginning</code>	
<code>\item&lt;3-6&gt; has an end</code>	
<code>\end{itemize}</code>	• has an end

---



# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;4-5&gt; that has a</code>	• that has a
<code>\item&lt;5&gt; beginning</code>	
<code>\item&lt;3-6&gt; has an end</code>	
<code>\end{itemize}</code>	• has an end

---

# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;4-5&gt; that has a</code>	• that has a
<code>\item&lt;5&gt; beginning</code>	• beginning
<code>\item&lt;3-6&gt; has an end</code>	• has an end
<code>\end{itemize}</code>	

---

# Stepwise

## Item III

Use “<n1-n2>” for fine control overlays:

---

<code>\begin{itemize}</code>	
<code>\item&lt;2-&gt; everything</code>	• everything
<code>\item&lt;4-5&gt; that has a</code>	
<code>\item&lt;5&gt; beginning</code>	
<code>\item&lt;3-6&gt; has an end</code>	
<code>\end{itemize}</code>	• has an end

---

# Replace

- Successive: `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$   
GA

# Replace

- Successive: `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$   
MOGA

# Replace

- Successive: `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\} \Rightarrow`  
pMOGA

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$  I am 5



# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\}`  $\Rightarrow$  I am not 11

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\}`  $\Rightarrow$  I am 11

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\}`  $\Rightarrow$  I am not 11

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\} \Rightarrow`
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\} \Rightarrow`
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\} \Rightarrow` Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\} \Rightarrow` I am not 11
- `\temporal<n>\{before n\}\{at n\}\{after n\}` for three alternatives  
`\temporal<14>\{I am under 14\}\{I am 14\}\{I am over 14\} \Rightarrow` I am under 14



# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\}`  $\Rightarrow$  I am not 11
- `\temporal<n>\{before n\}\{at n\}\{after n\}` for three alternatives  
`\temporal<14>\{I am under 14\}\{I am 14\}\{I am over 14\}`  $\Rightarrow$  I am 14

# Replace

- **Successive:** `\only<n>\{...\}`  
`\only<1>\{GA\}\only<2>\{MOGA\}\only<3>\{pMOGA\}`  $\Rightarrow$
- `\uncover<n>\{...\}` shows at given slide  
`\uncover<5>\{I am 5\}`  $\Rightarrow$
- `\invisible<n>\{...\}` hides at given slide  
`\invisible<8>\{Invisible at 8\}`  $\Rightarrow$  Invisible at 8
- `\alt<n>\{at n\}\{not at n\}` for two alternatives  
`\alt<11>\{I am 11\}\{I am not 11\}`  $\Rightarrow$  I am not 11
- `\temporal<n>\{before n\}\{at n\}\{after n\}` for three alternatives  
`\temporal<14>\{I am under 14\}\{I am 14\}\{I am over 14\}`  $\Rightarrow$  I am over 14

# Highlighting

## Simple Highlighting

Use “<+ - | structure@+>” for automatic highlighting:

---

```
\begin{itemize}[<+ - |  
structure@+]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything

# Highlighting

## Simple Highlighting

Use “<+ - | structure@+>” for automatic highlighting:

---

```
\begin{itemize}[<+ - |  
structure@+]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything
- that has a

# Highlighting

## Simple Highlighting

Use “<+ - | structure@+>” for automatic highlighting:

---

```
\begin{itemize}[<+ - |  
structure@+]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything
- that has a
- beginning

# Highlighting

## Simple Highlighting

Use “<+ - | structure@+>” for automatic highlighting:

---

```
\begin{itemize}[<+ - |  
structure@+]  
\item everything  
\item that has a  
\item beginning  
\item has an end  
\end{itemize}
```

---

- everything
- that has a
- beginning
- has an end

# Highlighting

## Alert Highlighting

Use “`\item<n- | alert@m>`” for more controlled highlighting:

---

```
\begin{itemize}
\item<2- | alert@2> everything
\item<2- | alert@3> that has a
\item<2- | alert@4> beginning
\item<2- | alert@5> has an
end
\end{itemize}
```

---

# Highlighting

## Alert Highlighting

Use “`\item<n- | alert@m>`” for more controlled highlighting:

---

```
\begin{itemize}
\item<2- | alert@2> everything
\item<2- | alert@3> that has a
\item<2- | alert@4> beginning
\item<2- | alert@5> has an
end
\end{itemize}
```

---

- everything
- that has a
- beginning
- has an end



# Highlighting

## Alert Highlighting

Use “`\item<n- | alert@m>`” for more controlled highlighting:

---

```
\begin{itemize}  
\item<2- | alert@2> everything  
\item<2- | alert@3> that has a  
\item<2- | alert@4> beginning  
\item<2- | alert@5> has an  
end  
\end{itemize}
```

---

- everything
- **that has a**
- beginning
- has an end

# Highlighting

## Alert Highlighting

Use “`\item<n- | alert@m>`” for more controlled highlighting:

---

```
\begin{itemize}
```

```
\item<2- | alert@2> everything
```

```
\item<2- | alert@3> that has a
```

```
\item<2- | alert@4> beginning
```

```
\item<2- | alert@5> has an
```

```
end
```

```
\end{itemize}
```

---

- everything

- that has a

- **beginning**

- has an end

# Highlighting

## Alert Highlighting

Use “`\item<n- | alert@m>`” for more controlled highlighting:

---

```
\begin{itemize}
```

```
\item<2- | alert@2> everything
```

```
\item<2- | alert@3> that has a
```

```
\item<2- | alert@4> beginning
```

```
\item<2- | alert@5> has an
```

```
end
```

```
\end{itemize}
```

---

- everything

- that has a

- beginning

- has an end

# Highlighting

## Alternative Highlighting

Use “`\alt<n>\color{col1}..\}\color{col2}..\}`” for active/inactive highlighting:

---

# Highlighting

## Alternative Highlighting

Use “`\alt<n>{\color{col1}..}\color{col2}..}`” for active/inactive highlighting:

---

- Everything
  - that has a
  - beginning
  - has an end.
-

# Highlighting

## Alternative Highlighting

Use “`\alt<n>{\color{col1}..}\color{col2}..}`” for active/inactive highlighting:

---

- Everything
  - that has a
  - beginning
  - has an end.
-

# Highlighting

## Alternative Highlighting

Use “`\alt<n>{\color{col1}..}\color{col2}..}`” for active/inactive highlighting:

---

- Everything
  - that has a
  - **beginning**
  - has an end.
-

# Highlighting

## Alternative Highlighting

Use “`\alt<n>{\color{col1}..}\color{col2}..}`” for active/inactive highlighting:

---

- Everything
  - that has a
  - beginning
  - **has an end.**
-



# Highlighting

## Alternative Highlighting

Code:

```
\begin{itemize}
\item<2-> \alt<2>{\color{blue} Everything}
{\color{gray} Everything}
\item<2-> \alt<3>{\color{blue} that has a}
{\color{gray} that has a}
\item<2-> \alt<4>{\color{blue} beginning}
{\color{gray} beginning}
\item<2-> \alt<5>{\color{blue} has an end.}
{\color{gray} has an end.}
\end{itemize}
```

# Highlighting

## Temporal Highlighting

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- Everything
  - that has a
  - beginning
  - has an end.
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## Alternative Highlighting

Code:

```
\begin{itemize}
\temporal<3>{\color{gray}}{\color{blue}}
{\color{blue!25}} \item Everything
\temporal<4>{\color{gray}}{\color{blue}}
{\color{blue!25}} \item that has a
\temporal<5>{\color{gray}}{\color{blue}}
{\color{blue!25}} \item beginning
\temporal<6>{\color{gray}}{\color{blue}}
{\color{blue!25}} \item has an end.
\end{itemize}
```