

Presentation with L^AT_EX

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<https://hadisafari.ir/courses/latex>



Presentation with L^AT_EX

1 Presentation with L^AT_EX

2 Beamer



Presentation with L^AT_EX

- there are some packages available to create presentation with L^AT_EX
- e.g. beamer & powerdot
- these packages create .pdf output
- you may find an appropriate viewer to present .pdf files, because some viewers are heavy or behave badly on slide transitions



Beamer

1 Presentation with L^AT_EX

2 Beamer



Beamer

- to use `beamer` class, use `\documentclass{beamer}`
- select presentation theme with `\usetheme{theme}`
- select presentation colour theme with `\usecolortheme{colourtheme}`
- there are inner & outer colour themes available
- combination of colour themes may be possible, too



Title Page & Metadata

- add presentation metadata like:

```

\author{Hadi Safari}
\institute[UT ACM Student Chapter]{
  University of Tehran \and
  ACM Student Chapter
}
\logo{
  \includegraphics[height=10ex]{ut}\;
  \includegraphics[height=10.4ex]{ut_acm}
}
\date[\LaTeX{} Intro\quad Summer 98]{
  \LaTeX{} Intro\
  {\small Summer 1398}
}
\subject{LaTeX}

```

- use `\frame{\titlepage}` OR `\begin{frame}\titlepage\end{frame}` to create title page



Frames & Outline

- new frames can be created like

```
\begin{frame}[options]
  \frametitle{title}
  cnt
\end{frame}
```

- to add outline in every section change, add the following lines to preamble:

```
\AtBeginSection[] {
  \begin{frame}
  \frametitle{\secname}
  \tableofcontents[currentsection]
  \end{frame}
}
```



Overlays

- one frame in a beamer presentation may have several *overlays*
- this is the technique where information is uncovered gradually instead of all at once
- add `\pause` to the slide to create a new overlay
- `\only<2,3>{stuff}` means that *stuff* only appears on overlays 2 & 3 and is ignored in other overlays
- `\onslide<2,3>{stuff}` means that *stuff* only appears on overlays 2 & 3 and is typeset but invisible in other overlays
- + means next slide, . means the current one
- `\onslide<+->` behaves like `\pause`
- this syntax for overlays can be used with other commands:


```
\textbf<2>{Occasionally bold}, \item<1-> First item, etc.
```
- you may use `\begin{itemize}[<+->]` to automatically put each item in a new overlay



Handout

- use the following line to create handout of slides:

```
\documentclass[handout]{beamer}
\usepackage{pgfpages}
\pgfpagesuselayout{2 on 1}[a4paper,border shrink=1cm]
```

- you may want to use a syntax like `\onslide<1-3|handout>` to include some hiding overlays in the handout
- you may want to use a syntax like `\onslide<+--|handout:0>` to exclude some overlays from the handout
- you may want to use a syntax like `\onslide<+--|beamer:0>` to exclude some overlays from the presentation
- *pgfpages* is incompatible with X_YL^AT_EX in some aspects; try pdL^AT_EX instead







Misc.

- you may need to add `fragile` option to `frame` environment to use `listings` or `verbatim` in it
- you may want to use `label1={l}` option to add a label to a slide and refer to it later
- you may want to automatically break frames to multiple ones by `allowframebreaks` option
- it's possible to use `thebibliography` environment in beamer
- it's possible to use `\appendix` to have got extra slides
- `appendixnumberbeamer` package fixes the slide numbering, etc.



References

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