Preparing documents and presentations using LATEX

Mandar Mitra

Indian Statistical Institute

Outline

- 1 Preliminaries
 - Beamer
- 2 Packages
 - Tables
 - Lists
 - Spacing
- 3 Diagrams
- 4 Misc. questions

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\documentclass{beamer}

```
\documentclass{beamer}
\usepackage{helvet}
\usefonttheme{professionalfonts}
```

```
\documentclass{beamer}
\usepackage{helvet}
\usefonttheme{professionalfonts}
\usecolortheme[rgb={0.2,0.5,0.5}]{structure}
```

```
\documentclass{beamer}
\usepackage{helvet}
\usefonttheme{professionalfonts}
\usecolortheme[rgb={0.2,0.5,0.5}]{structure}
\AtBeginSection[]{
  \begin{frame}{Outline}
  \tableofcontents[currentsection]
  \end{frame}
}
```

```
\documentclass{beamer}
\usepackage{helvet}
\usefonttheme{professionalfonts}
\usecolortheme[rgb={0.2,0.5,0.5}]{structure}
\AtBeginSection[]{
  \begin{frame}{Outline}
    \tableofcontents[currentsection]
  \end{frame}
}
\title[\LaTeX\ and Beamer]{Preparing documents ...}
\author[M.\ Mitra]{Mandar Mitra}
\institute[ISI]{Indian Statistical Institute}
\date{}
\begin{document}
\maketitle
```

■ Frames
\begin{frame}([fragile,t])(Preamble}...\end{frame}

Code, etc.

```
\begin{verbatim} ... \end{verbatim}
\begin{semiverbatim} ... \end{semiverbatim}
```

Blocks

```
\begin{block}{Example} ... \end{block}
```

■ Frames
\begin{frame}([fragile,t])(Preamble}...\end{frame}

■ Code, etc.
\begin{verbatim} ... \end{verbatim}
\begin{semiverbatim} ... \end{semiverbatim}

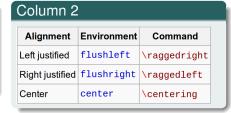
■ Blocks \begin{block}{Example}...\end{block}

Example

This is an example block.

Columns

Column 1 Here is one column.



Columns

```
\begin{columns}[t]
 \column[T] {0.45\textwidth}
 \begin{block}{Column 1}
   Here
   is
   one
   column.
 \end{block}
 \column[T]{0.45\textwidth}
 \begin{block}{Column 2}
    \includegraphics[width=0.95\textwidth]{figs/alignment.png}
 \end{block}
\end{columns}
```

Useful commands

- \alert{}
- \only, \uncover, \visible
- \onlyenv, \uncoverenv, \visibleenv
- \pause
- \section, \subsection, \subsubsection (in between frames)
- \verb

References

A Beamer Tutorial in Beamer

```
http://www.uncg.edu/cmp/reu/presentations/Charles%20Batts%20-%20Beamer%20Tutorial.pdf
```

- A Beamer Quickstart http://www.math.umbc.edu/~rouben/beamer/
- Norm Matloff's Quick Tutorial

```
http://heather.cs.ucdavis.edu/~matloff/beamer.html
```

Beamer by Example

```
http://www.tug.org/pracjourn/2005-4/mertz/mertz.pdf
```

Beamer v3.0 Guide

```
http://research.microsoft.com/en-us/um/people/saikat/ref/beamer_guide.pdf
```

Beamer User Guide

```
http://www.tug.org/tetex/tetex-texmfdist/doc/latex/beamer/
beameruserguide.pdf
```

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Where to get them

Packages provided by your (GNU/Linux) distribution

```
texlive-generic-recommended
texlive-latex-recommended
texlive-latex-extra
etc.
```

- TEX Live installation from scratch
 - installation: http://www.tug.org/texlive/quickinstall.html
 - package manager: tlmgr tlmgr install <pkgname>
- MikTeX (Windows only?)

Where to get them

The Comprehensive T_EX Archive Network http://ctan.org/

- Download the package. http://www.ctan.org/tex-archive/support/ctantools
- Extract the files: run LATEX on the .ins file.
- 3 Create the documentation: run LaTeX on the .dtx file.
- Install the files.

Private installation

- Put files in ~/latex or ~/texmf
- Setup paths for T_EX and LaT_EX export MYLATEX="/home/mandar/latex"

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```
export BSTINPUTS=":$MYLATEX" # Bibliography style files
export MFINPUTS=":$MYLATEX/fonts/source"
export TEXINPUTS="$MYLATEX:$MYLATEX/tikz:$MYLATEX/images:"
```

Private installation

- Put files in ~/latex or ~/texmf
- Setup paths for T_EX and L^AT_EX

```
export MYLATEX="/home/mandar/latex"

export BSTINPUTS=":$MYLATEX" # Bibliography style files
export MFINPUTS=":$MYLATEX/fonts/source"
export TEXINPUTS="$MYLATEX:$MYLATEX/tikz:$MYLATEX/images:"

export PKFONTS=":$MYLATEX/fonts/pk"
export TEXFONTS=":$MFINPUTS:$MYLATEX/fonts:$MYLATEX/fonts/pk"
export TEXPKS=":$MYLATEX/fonts/pk"
```

■ Can use a standard macros.tex

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tabular environment

```
\begin{tabular}{ 1 c r }
1 & 2 & 3 \\
14 & 25 & 36 \\
147 & 258 & 369 \\
\end{tabular}
```

```
1 2 3
14 25 36
147 258 369
```

Basics

■ Commands \multicolumn, \cline

■ Commands \multicolumn, \cline

```
\begin{tabular}{ l c r }
  \multicolumn{3}{c}{Heading} \\
  1 & 2 & 3 \\
  14 & 25 & 36 \\
  147 & 258 & 369 \\cline{1-2}
\end{tabular}
```

| Heading | | | | |
|---------|-----|-----|--|--|
| 1 | 2 | 3 | | |
| 14 | 25 | 36 | | |
| 147 | 258 | 369 | | |

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"Professional" tables

Tables in \LaTeX 2 ε : Packages and Methods, Lapo Filippo Mori

- Good style: Avoid vertical lines, horizontal lines in body, double lines, etc.
- Requirements
 - lines and spacing
 - horizontal and vertical alignment

"Professional" tables

Tables in ET_EX 2_{\epsilon}: Packages and Methods, Lapo Filippo Mori

- Good style: Avoid vertical lines, horizontal lines in body, double lines, etc.
- Requirements
 - lines and spacing
 - horizontal and vertical alignment
- Packages
 - tabularx
 - tabulary
 - ctable (includes packages array, tabularx and booktabs)
 - tabu
 - multirow

Lines and spacing

- Use ctable or booktabs
- \toprule, \bottomrule, \midrule, \cmidrule \newcommand{\otoprule}{\midrule[\heavyrulewidth]}

LATEX and Beamer

Lines and spacing

- Use ctable or booktabs
- toprule, \bottomrule, \midrule, \cmidrule
 \newcommand{\otoprule}{\midrule[\heavyrulewidth]}

```
\begin{tabular}{ 1 c r }\toprule
  1 & 2 & 3 \\\otoprule
  14 & 25 & 36 \\[1em]
  147 & 258 & 369 \\\bottomrule
\end{tabular}
```

Lines and spacing

- Use ctable or booktabs
- toprule, \bottomrule, \midrule, \cmidrule
 \newcommand{\otoprule}{\midrule[\heavyrulewidth]}

\begin{tabular}{ 1 c r }\toprule 1 & 2 & 3 \\otoprule 14 & 25 & 36 \([1em]) Don't use! 147 & 258 & 369 \\bottomrule \end{tabular}

| 1 | 2 | 3 |
|-----|-----|-----|
| 14 | 25 | 36 |
| 147 | 258 | 369 |

Packages

■ tabularx

| Force | Force is a vector quantity defined as the rate of change of the momentum of the body that would be induced by that force acting alone. | |
|-------------------|---|--|
| Moment of a force | Moment of a force with respect to an origin is defined as the cross product of the position vector (with respect to the same origin) and the force. | |

Packages

■ tabularx

```
\begin{tabularx}{0.85\textwidth}{>{\bfseries}lX} \toprule
Force &
Force is a vector quantity defined as the rate of change of
the momentum of the body that would be induced by that
force acting alone.\\midrule
Moment of a force &
Moment of a force with respect to an origin is
defined as the cross product of the position vector (with
respect to the same origin) and the force.\\\bottomrule
\end{tabularx}
```

- Total width of table has to be specified and is fixed
- All X columns of equal width; relatively hard to change column widths
- C, L, R column types have to be defined
 \newcolumntype{C}{>{\centering\arraybackslash}X}
 \newcolumntype{L}{>{\raggedright\arraybackslash}X}
 \newcolumntype{R}{>{\raggedleft\arraybackslash}X}
- Relatively easy to change vertical alignment globally
 \renewcommand{\tabularxcolumn}[1]{>{\arraybackslash}t{#1}} % top
 \renewcommand{\tabularxcolumn}[1]{>{\arraybackslash}m{#1}} % middle
 \renewcommand{\tabularxcolumn}[1]{>{\arraybackslash}b{#1}} % bottom

- Total width of table is indicative and a maximum
- Relatively better column width allocation
- C, L, R column types pre-defined
- Vertical alignment has to be changed per cell \parbox[position (t|m|b)][height][inner-pos]{width}{text}
- To change horizontal alignment per cell \makebox[width] [lcr] {text}

Combines advantages of tabularx, tabulary

```
\ctable[caption = An example, pos = h]{rlcc}
{\frac{1 \text{ degree}}{} = \pi/180\$ \text{ radians.}}
{\FL
  Хr.
  & $\famO H(Mu)+F 2$
  & $\famO H(Mu)+Cl 2$ \ML
  &$\beta$(H) & $80.9\circ$\tmark & $83.2\circ$
  \NN
  &$\beta$(Mu) & $86.7\circ$
  & $87.7\circ$
  \I.I.
```

ctable

Combines advantages of tabularx, tabulary

| | $H(Mu) + F_2$ | $H(Mu) + Cl_2$ |
|--------------|--------------------|----------------|
| β (H) | 80.9∘ ^a | 83.20 |
| β (Mu) | $86.7\circ$ | 87.70 |
| 24 1 | /1.00 !! | |

^a 1 degree = $\pi/180$ radians.

Table: An example

Combines advantages of tabularx, tabulary

| | $H(Mu) + F_2$ | $H(Mu) + Cl_2$ |
|--------------|----------------------------------|----------------|
| β(H) | 80.9°a | 83.20 |
| β (Mu) | $86.7\circ$ = $\pi/180$ radians. | 87.70 |

Table: An example

botcap, % topcap or sidecap
captionskip=2pt, % space between caption and table
mincapwidth=2in, % minimum width of caption
}

| Name | Address | Legal status |
|--|---|-----------------------|
| DAIICT Gandhinagar | Near Indroda Circle, Gandhinagar 382007. | University. |
| Indian Statistical Institute, Kolkata | 203 BT Road, Kolkata 700 108. | Autonomous institute. |
| National Law University, Odisha | Brajbiharipur, Near Naraj Bridge CDA, Cuttack 753015. | University. |

```
\tabulinesep=8pt
\boldsymbol{1.0}\ to 1.0\boldsymbol{1.1.2}\ | \boldsymbol{1.1.8}\ | \boldsymbol{1.1.8}\ | \boldsymbol{1.1.8}\ | \boldsymbol{1.1.2}\ | \boldsymbol{1.1.2}\
  \everyrow{\tabucline-}
  \rowfont[]]{\bfseries}
  Name & Address & Legal status \\
  DAIICT Gandhinagar &
  Near Indroda Circle, \linebreak Gandhinagar 382007. &
  University.\\
  Indian Statistical Institute, Kolkata &
  203 BT Road, Kolkata 700 108. &
  Autonomous institute.\\
  . . .
\end{tabu}
```

- \tabucline[line style]{start-stop}
- \everyrow{code}
- \rowfont[alignment]{font spec}

Common problems

```
\begin{tabular}{ccc}
\mc{3}{c}{Experimental results} \\
    x & x & x
\end{tabular}

\begin{tabular}{*{3}{<}{centering}p{1cm}}}
\mc{3}{c}{Experimental results} \\
    x & x & x
\end{tabular}</pre>
```

```
Experimental results
```

x x x

Experimental results

x x x

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Unnumbered lists

```
\begin{itemize}
\item The first item
\item The second item
\item The third etc \ldots
\end{itemize}
```

Unnumbered lists

```
\begin{itemize}
\item The first item
\item The second item
\item The third etc \ldots
\end{itemize}
```

- The first item
- The second item
- The third etc . . .

Unnumbered lists

```
\begin{itemize}
  \item The first item
  \item The second item
  \item The third etc \ldots
\end{itemize}
```

- The first item
- The second item
- The third etc . . .

Changing labels

- Manually for each entry, e.g., \item[\$\star\$]
- Label commands \labelitemi, \labelitemii, \labelitemiii, \labelitemiv
- Globally via \renewcommand \renewcommand{\labelitemi}{\textgreater} \renewcommand{\labelitemii}{\\$\star\\$}

```
\begin{enumerate}
\item The first item
\item The second item
\item The third etc \ldots
\end{enumerate}
```

```
\begin{enumerate}
\item The first item
\item The second item
\item The third etc \ldots
\end{enumerate}
```

- The first item
- The second item
- 3 The third etc ...

```
\begin{enumerate}
  \item The first item
  \item The second item
  \item The third etc \ldots
\end{enumerate}
```

- 1. The first item
- 2. The second item
- 3. The third etc . . .

Changing labels

- Label commands \labelenumii, \labelenumii, \labelenumiv
- Via \renewcommand

```
% changes cross-references
\renewcommand{\theenumi}{\Roman{enumi}}

% changes appearance
\renewcommand{\labelenumi}{(\theenumi)}

\renewcommand{\theenumii}{\alph{enumii}}
\renewcommand{\labelenumii}{\theenumii}.~\theenumii}
```

■ Styles: alph, Alph, arabic, roman, Roman

Changing labels - I

- \usepackage{enumerate}
- \begin{enumerate}[style] ... \end{enumerate}
- Style options: A, a, I, i and 1
- To use any of the style options without the special meaning, use {} e.g. \begin{enumerate}[{A}1] ... \end{enumerate}
- May cause problems with Beamer

Changing labels - II

- \usepackage[newenum,olditem]{paralist}
- Also provides
 \begin{inparaenum}[(1)] ... \end{inparaenum}

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep

Changing labels - III

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- Example: \begin{enumerate}[i), itemsep=1mm]

Changing labels - III

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- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Standard enumeration

\begin{enumerate}

- 1. topsep is 1 mm
- 2. leftmargin is 9 mm, which is the distance to the text for the item.
- 3. labelsep is 2 mm
- 4. labelwidth is 7 mm

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Customised enumeration 1

```
\begin{enumerate} [topsep=0mm, label=\emph{\alph*})]
```

- a) leftmargin is 9 mm, which is the distance to the text for the item.
- b) labelindent is 0 mm
- c) labelsep is $2 \,\mathrm{mm}$
- d) labelwidth is $7 \, \text{mm}$

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Customised enumeration 2

\begin{enumerate}[topsep=0mm, leftmargin=15mm]

- 1. leftmargin is 15 mm, which is the distance to the text for the item.
- 2. labelindent is 0 mm
- 3. labelsep is 2 mm
- 4. labelwidth is 7 mm

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Standard itemize

\begin{itemize}

- topsep is 1 mm
- leftmargin is 9 mm, which is the distance to the text for the item.
- labelindent is 0 mm
- labelsep is 2 mm
- labelwidth is 7 mm
- itemindent is 0 mm

Changing labels - III

- \usepackage[inline,shortlabels]{enumitem}
- Useful parameters: topsep, itemsep
- Example: \begin{enumerate}[i), itemsep=1mm]
- More examples (Truman Collins: truman@tkcs-collins.com):

Customised itemize

\begin{itemize}[topsep=0mm, label=\$\boxempty\$]

- □ topsep is 0 mm
- □ leftmargin is 9 mm, which is the distance to the text for the item.
- □ labelindent is 0 mm
- \square labelsep is $2 \,\mathrm{mm}$
- \square labelwidth is 7 mm
- □ itemindent is 0 mm

Changing numbering

- Counters (incremented by \item before use): enumi, enumii, enumii, enumiv
- To change value, use \setcounter{enumi}{4}

Description

```
\begin{description}
  \item[First] The first item
  \item[Second] The second item
  \item[Third] The third etc \ldots
\end{description}
```

```
First The first item

Second The second item

Third The third etc....
```

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Page layout

Use the geometry package

- \usepackage[options]{geometry}
- \usepackage[text={7in,10in},centering]{geometry}
- \usepackage[margin=1.5in]{geometry}
- \usepackage[top=,bottom=,left=,right=]{geometry}

Line spacing

- Use \linespread{factor}\selectfont
 - \linespread{1.3} = "one and a half" line spacing
 - \linespread{1.6} = "double" line spacing

Line spacing

- Use \linespread{factor}\selectfont
 - \linespread{1.3} = "one and a half" line spacing
 - \linespread{1.6} = "double" line spacing
- To change fontsize and spacing, use:

\fontsize{size}{skip}\selectfont
(Thumb rule: skip should be 1.2 times the font size)

Line spacing

- Use \linespread{factor}\selectfont
 - \linespread{1.3} = "one and a half" line spacing
 - \linespread{1.6} = "double" line spacing
- To change fontsize and spacing, use: \fontsize{size}{skip}\selectfont (Thumb rule: skip should be 1.2 times the font size)
- Use package setspace
 - handles footnotes, captions, etc. correctly
 - environments: doublespace, onehalfspace, singlespace, spacing{ factor }

Change default lengths

```
\setlength{parameter}{length}
\addtolength{parameter}{length}
\settowidth{parameter}{some text}
\settoheight{parameter}{some text}
\settodepth{parameter}{some text}
Also, \newlength{parameter}
```

Change default lengths

```
\setlength{parameter}{length}
\addtolength{parameter}{length}
\settowidth{parameter}{some text}
\settoheight{parameter}{some text}
\settodepth{parameter}{some text}
Also, \newlength{parameter}
```

maximum height of "some text" in current font

Change default lengths
\setlength{parameter}{length}
\addtolength{parameter}{length}
\settowidth{parameter}{some text}
\settoheight{parameter}{some text}
\settodepth{parameter}{some text}
Also, \newlength{parameter}

distance below the baseline of "some text" in current font

Change default lengths
\setlength{parameter}{length}
\addtolength{parameter}{length}
\settowidth{parameter}{some text}
\settoheight{parameter}{some text}

\settodepth{parameter}{some text}

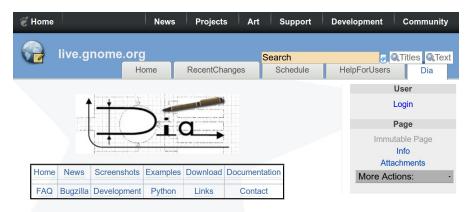
Also, \newlength{parameter}

Paragraph indentation and spacing
\setlength{\parindent}{0pt}
\setlength{\parskip}{6pt}
indent, noindent

Outline

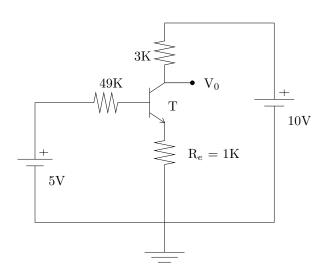
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https://live.gnome.org/Dia

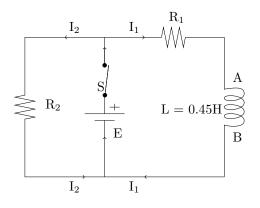


Welcome to Dia's new homepage. Dia is a GTK+ based diagram creation program

Dia: examples

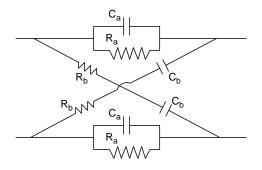


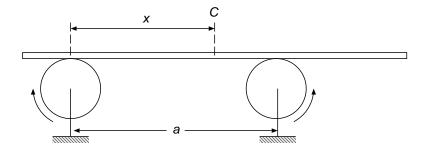
Dia: examples

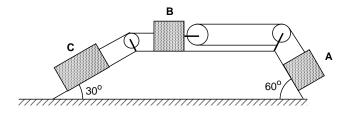


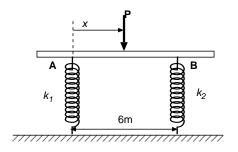
http://bourbon.usc.edu:8001/tgif/index.html

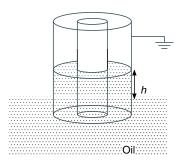
- Shapes: lines, arcs, rectangles / squares, polygons, ellipses / circles, etc.
- Move, rotate, flip objects
- Text
- Filling regions with patterns
- Formatting of elements



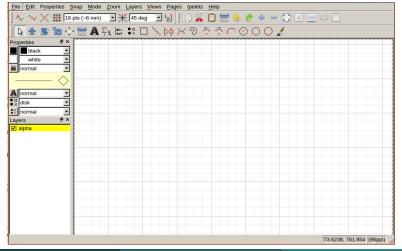








http://ipe7.sourceforge.net/



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Can we open terminal from latex presentation?

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Click here

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Click here

\href{http://www.isical.ac.in/~mandar/script.sh}{Click here}

Can we open terminal from latex presentation?

Click here

```
\href{http://www.isical.ac.in/~mandar/script.sh}{Click here}
```

How to embed animations or video files in a a) Beamer slide presentation b) pdf file generated by Latex (If at all possible)?

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How to embed animations or video files in a a) Beamer slide presentation b) pdf file generated by Latex (If at all possible)?

```
\movie[externalviewer]{\includegraphics{figs/figure.jpg}}{movie.mp4}
```

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```
\movie[externalviewer]{\includegraphics{figs/figure.jpg}}{movie.mp4}
```

A movie

If one need to show a big table of values in Beamer slide presentation is there any smarter way of doing that than just element wise copy paste?

- If one need to show a big table of values in Beamer slide presentation is there any smarter way of doing that than just element wise copy paste?
 - http://extensions.openoffice.org/en/project/calc2latex-macroconverting-openofficeorg-calc-spreadsheets-latex-tables

- If one need to show a big table of values in Beamer slide presentation is there any smarter way of doing that than just element wise copy paste?
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 - Use awk
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