

# L<sup>A</sup>T<sub>E</sub>X Interactive Session

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# Overview

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- 2 Errors
- 3 More environments
  - Lists
  - Code
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# Assignment

## Questions

Do you have any questions related to the assignment?

# Assignment

## Style

Let  $\LaTeX$  do the work for you!

# Errors

Always go top to bottom!  
Always fix all errors and warnings!

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<b>Input</b>	<b>Action</b>
x	exit compilation
q	carry on quietly
e	stop compilation, go to error
h	help
i	insert correction
r	run nonstop

---

**Table:** Error prompt responses.

# Errors - Undefined

! Undefined control sequence.

Check the spelling and whether you have included the package containing the command.

# Errors - Math Mode

## ! Missing \$ inserted

You're not in math mode, but you used a command that can only be used in math mode. T<sub>E</sub>X uses \$ to enter and exit math mode, but L<sup>A</sup>T<sub>E</sub>X uses  $\left(\right)$ ,  $\left[\right]$  and the equation environment.

# Errors - Bad hbox

## Underfull/Overfull \hbox

L<sup>A</sup>T<sub>E</sub>X has to force a line to have smaller or larger spaces than allowed. Check line breaks and hyphenation.



# Errors - Missing package

! LaTeX Error: File 'paralisy.sty' not found.

$\LaTeX$  has to force a line to have smaller or larger spaces than allowed. Check line breaks and hyphenation.

# Unordered list

## Example (Input)

```
\begin{itemize}
  \item A
  \item B
  \item C
\end{itemize}
```

## Example (Output)

- A
- B
- C

# Ordered list

## Example (Input)

```
\begin{enumerate}  
  \item A  
  \item B  
  \item C  
\end{enumerate}
```

## Example (Output)

- 1 A
- 2 B
- 3 C

# Description list

## Example (Input)

```
\begin{description}
  \item[Name 1] description 1
  \item[Name 2] description 2
  \item[Name 3] description 3
\end{description}
```

## Example (Output)

Name 1 description 1  
Name 2 description 2  
Name 3 description 3

# Description list

## Example (Input)

```
\begin{description}  
  \item[Name 1] \hfill \  
description 1  
  \item[Name 2] \hfill \  
description 2  
  \item[Name 3] \hfill \  
description 3  
\end{description}
```

## Example (Output)

```
Name 1  
description 1  
  
Name 2  
description 2  
  
Name 3  
description 3
```

# Showing code - Verbatim

## Example (Input)

```
\begin{verbatim}  
\textbf{This text won't be bold.}  
\textit{This text won't be italic.}  
\end{verbatim}
```

## Example (Output)

```
\textbf{This text won't be b  
\textit{This text won't be i
```

# Showing code - Listings

## Example (Preamble)

```
\usepackage{listings}
\lstset{
language=[AllaTeX]TeX,
basicstyle=\footnotesize,
columns=fullflexible,
literate={D}{{\Thorn}}2 {ó}{{\`o}}1,
}
```

## Example (Input)

```
\begin{lstlisting}
\textbf{This text won't be bold.}
\textit{This text won't be italic.}
end{lstlisting}
```

## Example (Output)

```
\textbf{This text won't be bold.}
\textit{This text won't be italic.}
```

# Boxes

## Example (Input)

```
\makebox[width][pos]{text} % pos = clrsf  
\raisebox{lift}[height][depth]{text}  
\parbox[pos][height][contentpos]{width}{text}  
\begin{minipage}[pos][height][contentpos]{width}  
text  
\end{minipage}
```



Figure: from the  
L<sup>A</sup>T<sub>E</sub>X Wikibook



# Lengths

<b>Abbrev.</b>	<b>Description</b>	<b>Value in pt</b>
pt	default length	0.3515 mm
mm	millimeter	2.84
cm	centimeter	28.4
in	inch	72.27
ex	width of 'x'	
em	height of 'M'	

**Table:** Common units (less common: bp, pc, dd, cc, sp).

# Lengths

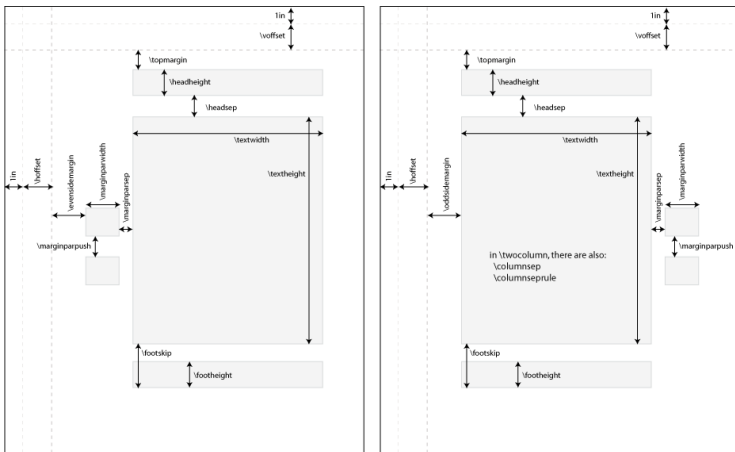


Figure: from <http://latex.knobs-dials.com/>