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1 Basics

1.1 Basic latex source file structure

```
\documentclass{} % always as the first line in a latex source
[preamble]
\begin{document}
contents
\end{document}
```

1.2 Organize Contents

A new document might need to be compiled multiple times to get a correct table of contents. available sectioning commands:

```
\section{...}
\subsection{...}
\subsubsection{...}
\paragraph{...}
\subparagraph{...}
```

2 Development Environment

I'm using vim + *vimtex* to edit latex

NOTE: in my vim config <localleader> is "\"

some useful shortcuts:

key	Command	MODE
<localleader>ll	vimtex-compile-toggle	n
<localleader>lo	vimtex-compile-output	n
]]	vimtex-delim-close (close the current environment)	i

3 Lists

1. ordered list item 1 {enumerate}
2. ordered list item 2:
 - unordered list item {itemize}
3. description list item 3:
desc1 item {description}
desc2 item
- item start with dash item 4

4 Equations

...when Einstein introduced his formula

$$e = m \cdot c^2 , \tag{1}$$

“which is at the ‘same’ time the most widely known and the least well understood physical formula.”

$$\sum_{k=1}^n I_k = 0 . \tag{2}$$

5 Math Equations