**Tabular environments**

**tabbing environment**

\begin{tabular}{|l|c|r|}
\hline
Set tab stop. & Go to tab stop. & \hline
Tab stops can be set on \textit{invisible} lines with \texttt{\vskip} at the end of the line. Normally \textbackslash{} is used to separate lines. \\
\hline
\begin{tabular}{|l|c|r|}
\hline
\begin{tabular}{|l|c|r|}
\hline
\begin{tabular}{|l|c|r|}
\hline
\begin{tabular}{|l|c|r|}
\hline
\begin{tabular}{|l|c|r|}
\hline
\end{tabular}
\end{tabular}
\end{tabular}
\end{tabular}
\end{tabular}
\end{tabular}

**tabular column specification**

- \texttt{c} Left-justified column.
- \texttt{r} Right-justified column.
- \texttt{p(width)} Same as \texttt{parbox[\{\width\}].}
- \texttt{\hfill} Insert \texttt{hfill} instead of inter-column space.
- \texttt{\hline} Inserts a vertical line between columns.

**tabular elements**

- \texttt{\hline} Horizontal line between rows.
- \texttt{\cline{\text{-y}}} Horizontal line across columns \textit{x} through \textit{y}.
- \texttt{\multicolumn{\{\text{n}\}}{\{\text{cols}\}}{\{\text{text}\}}} A cell that spans \textit{n} columns, with \texttt{cols} column specification.

**Math mode**

To use math mode, surround text with \$ or \$ use \begin{equation} \end{equation}

<table>
<thead>
<tr>
<th>Superscript</th>
<th>Subscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>^x</td>
<td>_x</td>
</tr>
<tr>
<td>\sum_{k=1}^n</td>
<td>\prod_{k=1}^n</td>
</tr>
<tr>
<td>\sqrt{n}</td>
<td>\frac{x}{y}</td>
</tr>
<tr>
<td>\frac{x}{y}</td>
<td>\sqrt{n}</td>
</tr>
</tbody>
</table>

**Math-mode symbols**

- !\leq \geq !\approx \sim \doteq \not\sim \asymp \\
- !\times \div !\pm \cdot !\dot{} \\
- !\cap \cup \mid !\lessgtr !\gg \\
- !\Rightarrow \Leftarrow !\Leftrightarrow \\
- !\exists !\not\exists !\implies \\
- \alpha \beta \gamma \delta \epsilon \theta \lambda \mu \pi \\
- \rho \varpi \chi \psi \Omega \\

**Bibliography and citations**

When using \LaTeX, you need to run \texttt{latex}, \texttt{bibtex}, and \texttt{latex} twice more to resolve dependencies.

**Citation types**

- \texttt{\cite{key}} Full author list and year. (Watson and Crick 1953)
- \texttt{\citeA{key}} Abbreviated author list and year. (Watson and Crick 1953)
- \texttt{\citeNP{key}} Abbreviated author list. (Watson and Crick) 1953
- \texttt{\citeNP{year}} Abbreviated author list and year. ?
- \texttt{\citeyear{key}} Cite year only. (1953)

All the above have an \texttt{NP} variant without parentheses; Ex. \texttt{\citeNP{NP}}.

**\LaTeX** entry types**

- \texttt{\@article} Journal or magazine article.
- \texttt{\@book} Book with publisher.
- \texttt{\@booklet} Book without publisher.
- \texttt{\@conference} Article in conference proceedings.
- \texttt{\@inbook} A part of a book or/and range of pages.
- \texttt{\@incollection} A part of a book with its own title.
- \texttt{\@misc} If nothing else fits.
- \texttt{\@phdthesis} PhD. thesis.
- \texttt{\@proceedings} Proceedings of a conference.
- \texttt{\@techreport} Tech report, usually numbered in series.
- \texttt{\@unpublished} Unpublished.

**\BibTeX** fields**

| \texttt{address} | Address of publisher. Not necessary for major publishers. |
| \texttt{author} | Names of authors, of format .... |
| \texttt{booktitle} | Title of book when part of it is cited. |
| \texttt{chapter} | Chapter or section number. |
| \texttt{editor} | Names of editors. |
| \texttt{institution} | Sponsoring institution of tech. report. |
| \texttt{journal} | Journal name. |
| \texttt{key} | Used for cross ref. when no author. |
| \texttt{month} | Month published. Use 3-letter abbreviation. |
| \texttt{note} | Any additional information. |
| \texttt{number} | Number of journal or magazine. |
| \texttt{organization} | Organization that sponsors a conference. |
| \texttt{pages} | Pages range (2,6,9--12). |
| \texttt{publisher} | Publisher’s name. |
| \texttt{school} | Name of school (for thesis). |
| \texttt{series} | Name of series of books. |
| \texttt{title} | Title of work. |
| \texttt{type} | Type of tech. report, ex. “Research Note”. |
| \texttt{volume} | Volume of a journal or book. |
| \texttt{year} | Year of publication. |

Not all fields need to be filled. See example below.

**Common \LaTeX** style files**

| \texttt{abbr} | Standard |
| \texttt{alpha} | Standard |
| \texttt{plain} | Standard |

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http://www.stdout.org/~winston/latex/