

# The ltablex package\*

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The file modifies the `tabularx` environment to combine the features of the `tabularx` package (auto-sized columns in a fixed width table) with those of the `longtable` package (multi-page tables).

The tables are typeset using the `tabularx` environment and the `longtable` environment is used internally to handle multi-page tables. The `\setlongtables` feature is used, and, therefore, the document should be run through `latex` twice.

Another feature that has been added is to treat the `X` columns like ‘1’ columns if the table contents would allow that to happen without exceeding the specified width of the table. In other words, the specified width is treated as the maximum allowed and not the exact width of the table. This feature is the default but can be disabled (or enabled) with `\keepXColumns` (or `\convertXColumns`).

Caveats:

- The document needs to be `latex`d a couple times in general.
- In general, it is necessary to remove the `.aux` file before the first `latex` run on the document.
- The table should not be larger than `TEX`'s memory capacity

Here is a simple usage example:

```
1 \documentclass{article}
2
3 \usepackage{ltablex}
4
5 \textheight=4in
6
```

---

\*This manual corresponds to `ltablex` v1.0, dated 1995/11/06.

```

7 \begin{document}
8
9 % we want a table that is \textwidth long, has 4 columns, columns 1
10 % and 3 are auto sized with the 3rd columns being 3 times wider than
11 % the first column.
12 %
13
14
15 \begin{tabularx}{\linewidth}%
16 {% col 1; auto-sized ragged right
17   |>{\setlength{\hspace}{.5\hspace}\raggedright\arraybackslash}X|%
18   % col 2; default centered
19   c|%
20   % col 3; auto-sized ragged left
21   >{\setlength{\hspace}{1.5\hspace}\raggedleft\arraybackslash}X|%
22   % col 4; default left-justified
23   l|}
24
25 \caption*{The Table Caption}\\
26 \hline
27 F-Head1 & F-Head2 & F-Head3 & F-Head4\\
28 \hline
29 \hline
30 \endfirsthead
31 \hline
32 Head1 & Head2 & Head3 & Head4\\
33 \hline
34 \hline
35 \endhead
36
37 \hline
38 \hline
39 Foot1 & Foot2 & Foot3 & Foot4\\
40 \hline
41 \endfoot
42
43
44 \hline
45 \hline
46 L-Foot1 & L-Foot2 & L-Foot3 & L-Foot4\\
47 \hline
48 \endlastfoot

```

```

49
50 This is a very long sentence not likely to fit&
51 not too long&
52 This is another very long sentence not likely to fit&
53 not long\\
54
55 \hline
56 filler & filler & filler & filler\\
57
58 \hline
59 This is a very long sentence not likely to fit&
60 not too long&
61 This is another very long sentence not likely to fit&
62 not long\\
63
64 \hline
65 This is a very long sentence not likely to fit&
66 not too long&
67 This is another very long sentence not likely to fit&
68 not long\\
69
70 \hline
71 This is a very long sentence not likely to fit&
72 not too long&
73 This is another very long sentence not likely to fit&
74 not long\\
75
76 \end{tabularx}
77
78 \begin{tabularx}{\linewidth}{|c|X|c|}
79 \hline
80 a &convert X to l & b\\
81 \hline
82 \end{tabularx}
83
84 \keepXColumns
85 \begin{tabularx}{\linewidth}{|c|X|c|}
86 \hline
87 a &retain X & b\\
88 \hline
89 \end{tabularx}
90

```

```
91 \convertXColumns
92 \begin{tabularx}{\linewidth}{|c|X|c|}
93 \hline
94 a & \convert X to 1 & b \\
95 \hline
96 \end{tabularx}
97
98
99 \end{document}
```