

# The `mboxfill` package\*

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## 1 User Interface

`\mboxfill` This package implements the command

`\mboxfill[⟨width⟩][⟨leader-type⟩]{⟨pattern⟩}`

filling a free horizontal space with `⟨pattern⟩`.

The `⟨width⟩` parameter specifies a width of box pattern to be used as leaders. If it is omitted, the pattern width is used. The `\width`, `\height`, `\depth`, and `\totalheight` macros can be used in this parameter. Length expressions are also allowed if the `calc` package is loaded.

The `⟨leader-type⟩` parameter specifies a type of leaders to be used: `c` means `\cleaders`, `x` means `\xleaders`, and empty value (default) means `\leaders`. Depending on type, an extra space is distributed between fill entries as follows: in `c` case, fill entries are centered, in `x` case, fill entries are uniformly distributed, and in other cases, fill entries are aligned to the multiple of their width counted from the left boundary of filled box.

When the specified `⟨width⟩` differs from the pattern width, the pattern is centered inside the box to fill with. As a consequence, when `x`-leaders are used, a bit of space will be left from both sides of fill area. To remove this space, use the special value of `⟨leader-type⟩` parameter, namely `s`.

Example:

```
\noindent\mboxfill{*}\mbox{}\\  
\mbox{}\mboxfill[2\width]{+}\mbox{}\\  
\mbox{}\mboxfill[2\width]{\hfill+}\mbox{}\\  
\mbox{}\mboxfill[2\width]{+\hfill}\mbox{}\\  
A text\mboxfill[1.5\width]{*}\mbox{}\\  
\mbox{}\mboxfill[1.5\width]{*}\mbox{}\\  
\mbox{}\mboxfill[1.5\width][c]{*}\mbox{}\\  
\mbox{}\mboxfill[1.5\width][x]{*}\mbox{}\\  
\mbox{}\mboxfill[1.5\width][s]{*}\mbox{}\[-2ex]  
\mbox{}\hrulefill
```

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Set the required box width in \@tempdima:

Test the case of s-leaders. They work like x-leaders, but a special kern is added to both sides of the fill area to compensate extra-space added in the box.

Other cases: if leader-type is incorrect, we use `\leaders`.

\@tempa contains required leaders, \@tempb is a kern or empty. Fill the space.