# semtex: For stripped SemanTEX documents (v0.1 $\beta$ ) 

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The package semtex is a small package that adds a collection of simple macros for parentheses and bullets. It exists for one purpose only: To be loaded by documents which were originally typeset using the package SemanTEX, but which have been stripped of SemanT ${ }_{\mathrm{E}} \mathrm{X}$ markup using the package stripsemantex. Therefore, unless your document is one of those, simply don't use this package.

And even if your document is one of those, there is a good chance you will not have to load it after all. In most cases, you will be able to replace the macros it provides by macros from other packages.

## Bullet commands

The package provides the commands \SemantexBullet and \SemantexDoubleBullet. These commands print bullets which are smaller (and prettier, in my opinion) than the standard \bullet command from $\mathrm{IAT}_{\mathrm{E}} \mathrm{X}$ :

```
$ H^{\SemantexBullet} $,
$ H^{\SemantexDoubleBullet} $
(compare to $H^{\bullet}$)
```

$H^{\bullet}, H^{\bullet}\left(\right.$ compare to $\left.H^{\bullet}\right)$

You can recreate them yourself as follows, rendering the package semtex unnecessary for this purpose:

```
\newcommand\SemantexBullet{%
    \raisebox{-0.25ex}{\scalebox{1.2}{$\cdot $}}%
}
\newcommand\SemantexDoubleBullet{%
    \SemantexBullet\SemantexBullet
}
```


## Replacements for \left and \right 

}The package provides the commands \SemantexLeft and \SemantexRight These work just like \left...\right, but fix some spacing issues around these:

```
\[
    \SemantexLeft(
        \frac{1}{2}
        \SemantexRight]
\]
```

They are completely equivalent to \mleft and \mright from the package mleftright, so it is safe to just load that package and replace the above commands by \mleft... Imright instead. Alternatively, you can recreate them yourself by

```
\newcommand\SemantexLeft{%
    \mathopen{}\mathclose\bgroup\left
}
\newcommand\SemantexRight{%
    \aftergroup\egroup\right
}
```


## Commands for scaled delimiters

First and foremost, the package provides the command
\SemantexParentheses $\{\langle$ normal|auto|*|other $\rangle\}\{\langle$ left parenthesis $\rangle\}$ ! <br>
$\{\langle$ right parenthesis $\rangle\}\{\langle$ content $\rangle\}$
This one writes 〈content〉 enclosed in the pair of parentheses and with the size given by the first argument. Here, normal means normal size parentheses, and auto and $*$ mean auto-scaled parentheses using \SemantexLeft...\SemantexRight. If another value is received, that value is used for the parenthesis size, so the intended values are $\backslash$ big, \Big, \bigg, \Bigg:
\$ $\backslash$ SemantexParentheses $\{$ normal $\}\{( \}\{$

$$
)\}\{\backslash \operatorname{frac}\{a\}\{b\}\} \$,
$$

$\$ \backslash$ SemantexParentheses $\{$ auto $\}\{[ \}]\}\{$ \frac $\{a\}\{b\}\} \$$,
\$ $\backslash$ SemantexParentheses $\{\backslash \mathrm{big}\}\{$
\langle $\}\{$ \rangle $\}\{\backslash$ frac $\{a\}\{b\}\} \$$,
$\left(\frac{a}{b}\right),\left[\frac{a}{b}\right],\left\langle\frac{a}{b}\right\rangle,\left\{\frac{a}{b}\right\}$,

## \$\SemantexParentheses $\{\backslash$ Bigg $\}\{\backslash\}\{$

$$
\backslash\}\}\{\backslash f r a c\{a\}\{b\}\} \$,
$$

The important property of this command is that inside the $\langle$ content $\rangle$, you can access the delimiter size at any point using the command \SemantexDelimiterSize:

```
$\SemantexParentheses {\Bigg}{\{}{\
} } {
    \frac{a}{b}
    \SemantexDelimiterSize|
    \frac{u}{v}
}$
```

Secondly, the package provides the command

```
\SemantexNoParentheses {\langlecontent\rangle}
```

This command prints the content with no parentheses, but importantly, it also resets the command \SemantexDelimiterSize to \{\}, i.e. blank. This makes the following work:

```
$\SemantexParentheses{\Bigg}{\{}{\
}}{
    \frac{a}{b}
    \SemantexDelimiterSize|
    \SemantexNoParentheses{
        a
        \SemantexDelimiterSize\
        b
    }
}$
```

