§ 0.0 p. 1

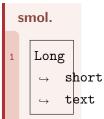
Last successful compile: 2025-09-24 05:19:14Z This file is a compilation of various uses of the listing boxes generated with \ModifiedNewTCBListing and \ModifiedNewTCBInputListing. In this way, robustness checks are performed to ensure they function correctly—as bug-free as possible. Text. Hello (a) \arabic{code}: 1 (b) \eqboxwidth{⟨tag⟩} <tag> codetitlewidth: Opt codeupperwidth: 383.60588pt _ ${\tt codelowerwidth:}\ 0pt$ (c) \l__listings_autowidth_\(component\)_dim ⟨component⟩ title: 0.0pt0.0ptupper: 0.0ptlower: (d) \g_{listings} autowidth@core_measured_text_width_dim: 0.0 pt(e) \g__listings_autowidth@core_measured_width_dim: 0.0pt (f) \g__listings_autowidth@core_max_tcb_text_width_dim: 0.0pt (g) \g__listings_autowidth@core_max_tcb_width_dim: 416.83289pt

CHAPTER

ModifiedNewTCBListing

1.1 One Autowidth Option Selected

- (a) autowidth = title
 - (i) \lambda__listings_autowidth_title_dim <= \linewidthoutside</p>
 This box should be of width \l__listings_autowidth_title_dim



(ii) \l__listings_autowidth_title_dim > \linewidthoutside
This title should break and be of width \linewidthoutside

Long short text

(b) autowidth = upper

Julia.

\xdef\mywidth{\the\linewidth}\mywidth
\mywidth = 313.45552pt

(i)



heh



1.2 Two Autowidth Options Selected

(a) autowidth = title + upper

```
(i) \l__listings_autowidth_title_dim <= \linewidthoutside
          This box should be of width \l__listings_autowidth_title_dim
                                smol.
                                  Long short text
      (ii) \l__listings_autowidth_title_dim > \linewidthoutside
          This title should break and be of width \linewidthoutside
            long long long long long long title.
              Long short text
      (iii) i.
                Julia.
                  \xdef\mywidth{\the\linewidth}\mywidth
                  \mbox{mywidth} = 289.9374pt
           ii.
                This should have breaklines disabled.
                This should also have breaklines disabled (But the title should
                 break).
          iii.
                This should have breaklines enabled.
                This should also have breaklines disabled (But the title should
                 break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \linewidthoutside
          This box should be of width \l__listings_autowidth_title_dim
```

```
smol.
                            Long short text
(ii) \l__listings_autowidth_title_dim > \linewidthoutside
```

This title should break and be of width \linewidthoutside

long long long long long long title.

Long short text

(iii) \l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{code}}

The following box should have width equal to the linewidth.

```
T<sub>E</sub>X.
  Hello\\ hewwo \hspace{10cm} heh
Hello
                                                                        heh
hewwo
```

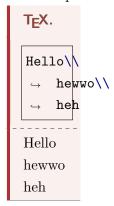
(iv) \l__listings_autowidth_title_dim >= \l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{codeupperwidth}

The following box should have width equal to the width of the title

```
Long long long long long long long title.
 Hello\\ hewwo \hspace{5cm} heh
Hello
hewwo
                               heh
```

(v) \l__listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arabic{code}}

The following box should have width equal to that of the \tcblower.



(c) autowidth = upper + lower

```
Julia.
         \xdef\mywidth{\the\linewidth}\mywidth
         \mbox{mywidth} = 310.41388pt
 (i)
                                  should
                                            have
                            This
                             breaklines disabled.
                              \hspace{\mywidth}
(ii)
                      This should have breaklines en-
                        abled.
                        \hspace{\mywidth+0.00001pt}
(iii) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_upper_dim
    The following box should have width equal to the linewidth.
      T<sub>E</sub>X.
         Hello\\ hewwo \hspace{10cm} heh
      Hello
      hewwo
                                                                      heh
(iv) \label{eq:iv} l_{=} = l_{=}  satisfies autowidth \label{eq:iv} l_{=} = l_{=} 
    The following box should have width equal to the width of the \tcblower
                 Long long long long long long long
                   long long long title.
                    Hello\\ hewwo \hspace{5cm} heh
                 Hello
                 hewwo
                                                     heh
(v) \l__listings_autowidth_lower_dim < \l__listings_autowidth_upper_dim
    The following box should have width equal to that of the width of
    the upper.
                           T<sub>E</sub>X.
                           Hello\\ hewwo\\ heh
                           Hello
                           hewwo
                           heh
```

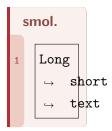
1.3 (All) Three Autowidth Options Selected (a) \l__listings_autowidth_upper_dim >= \l__listings_autowidth_\langle title, \displayer_dim This box should be of width \l_listings_autowidth_upper_dim (b) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_\langle title, | upper \rangle_dim This box should be of width \l__listings_autowidth_lower_dim \hspace{10cm} (c) \l__listings_autowidth_title_dim >= \l__listings_autowidth_\langle upper, \dim This title should break and be of width \linewidthoutside Long short text\\ Test \hspace{8.5cm} testo (d) \l__listings_autowidth_title_dim > \linewidthoutside This title should break and be of width \linewidthoutside long long long long long long title. Long short text\\ Test \hspace{10cm} testo (e) Julia. \xdef\mywidth{\the\linewidth}\mywidth $\mbox{mywidth} = 348.53072pt$ This should have breaklines disabled. \hspace{\mywidth} (f) This should have breaklines enabled. \hspace{\mywidth+0.00001pt}

Text. test (a) \arabic{code}: 35 (b) \eqboxwidth{\langle} ⟨tag⟩ $\verb|codetitlewidth: 0pt|$ $\verb|codeupperwidth|: 22.99493pt ____|$ ${\tt codelowerwidth:}\ 0pt$ (c) $\label{component}_{dim}$ ⟨component⟩ title: $0.0 \mathrm{pt}$ upper: 22.99493pt ____ ${\tt lower:} \qquad 0.0 {\rm pt}$ (d) \g__listings_autowidth@core_measured_text_width_dim: 22.99493pt (e) \g_{listings} autowidth@core_measured_width_dim: 56.22194pt $(f) $$ \searrow_{\text{listings}} = \text{untowidth@core}_{\text{max}_{\text{tcb}}} = \text{text}_{\text{width}_{\text{dim}}} : 383.60588 pt$ (g) \g__listings_autowidth@core_max_tcb_width_dim: 416.83289pt

ModifiedNewTCBInputListing

2.1 One Autowidth Option Selected

- (a) autowidth = title
 - (i) \l__listings_autowidth_title_dim <= \linewidthoutside This box should be of width \l__listings_autowidth_title_dim



(ii) \l__listings_autowidth_title_dim > \linewidthoutside This title should break and be of width \linewidthoutside

long long long long long long title.

Long short text

(b) autowidth = upper

```
Text.
  \xdef\mywidth{\the\linewidth}\mywidth
  \mbox{mywidth} = 313.45552pt
```



heh

Hello hewwo heh

2.2 Two Autowidth Options Selected

- (a) autowidth = title + upper
 - (i) \l__listings_autowidth_title_dim <= \linewidthoutside

 This box should be of width \l__listings_autowidth_title_dim

smol.

1 Long short text

(ii) \l__listings_autowidth_title_dim > \linewidthoutside
This title should break and be of width \linewidthoutside

Long short text

(iii) i.

Text.

1 \xdef\mywidth{\the\linewidth}\mywidth

2 \mywidth = 289.9374pt

ii.

This should have breaklines disabled.

1

This should also have breaklines disabled (But the title should break).

1

iii.

```
This should have breaklines enabled.
                This should also have breaklines disabled (But the title should
                 break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \linewidthoutside
          This box should be of width \l__listings_autowidth_title_dim
                                smol.
                                  Long short text
      (ii) \l__listings_autowidth_title_dim > \linewidthoutside
          This title should break and be of width \linewidthoutside
            long long long long long long title.
              Long short text
      (iii) \l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{code}}
          The following box should have width equal to the linewidth.
            Text.
              Hello\\ hewwo \hspace{10cm} heh
            Hello
            hewwo
                                                                     heh
      (iv) \l__listings_autowidth_title_dim >= \l__listings_autowidth_lower_dim
                                              >= \eqboxwidth{codeupperwidth\arabic{codeupperwidth}
          The following box should have width equal to the width of the title
```

```
§ 2.2
                         Two Autowidth Options Selected
                                                                           p. 13
                     Long long long long long long long long title.
                       Hello\\ hewwo \hspace{5cm} heh
                     Hello
                                                        heh
                     hewwo
          (v) \l__listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arabic{code}}
             The following box should have width equal to that of the \tcblower.
                                           Text.
                                            Hello\\
                                                hewwo\\
                                                heh
                                           Hello
                                           hewwo
                                           heh
   (c) autowidth = upper + lower
                Text.
                  \xdef\mywidth{\the\linewidth}\mywidth
                  \mbox{mywidth} = 310.41388pt
          (i)
```

This should have breaklines disabled.

1 \hspace{\mywidth}

(ii)

This should have breaklines enabled.

1 \hspace{\mywidth+0.00001pt}

(iii) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_upper_dim

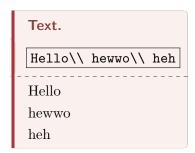
The following box should have width equal to the linewidth.



(iv) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_upper_dim
The following box should have width equal to the width of the \tcblower

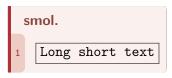
(v) \l__listings_autowidth_lower_dim < \l__listings_autowidth_upper_dim

The following box should have width equal to that of the width of the upper.



2.3 (All) Three Autowidth Options Selected

(a) \l__listings_autowidth_upper_dim >= \l__listings_autowidth_\title, lower_dim
This box should be of width \l__listings_autowidth_upper_dim



(b) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_\title, upper_dim
This box should be of width \l__listings_autowidth_lower_dim



