§ 0.0

Last successful compile: 2025-09-26 00:31:09Z 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{\langle} ⟨tag⟩ $\verb|codetitlewidth: 0pt|\\$ 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_1 istings_autowidth@core_max_tcb_width_dim: 416.83289pt

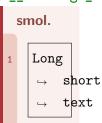
HAPTE

ModifiedNewTCBListing

1.1 One Autowidth Option Selected

- (a) autowidth = title
 - (i) $\label{limits} limits_autowidth_title_dim <= \\linewidthoutside$

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

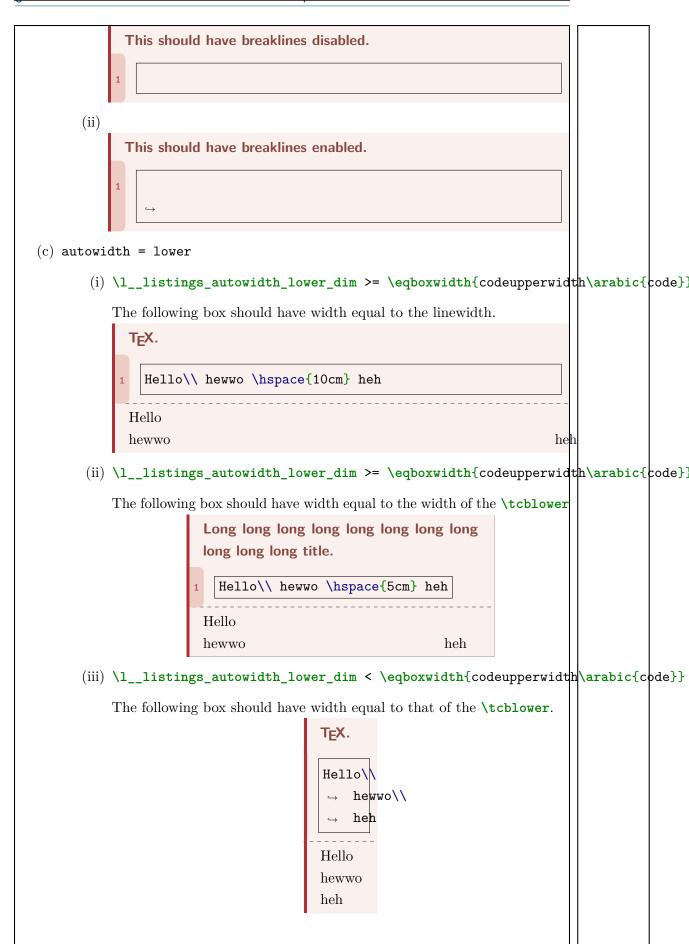
- Long short text
- (b) autowidth = upper

Julia.

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

2 \mywidth = 313.45547pt

(i)



1.2 Two Autowidth Options Selected

(a) autowidth = title + upper

This box should be of width \l__listings_autowidth_title_dim

(i) \l__listings_autowidth_title_dim <= \linewidthoutside

smol.

Long short text

(ii) \l__listings_autowidth_title_dim > \linewidthoutside

This title should break and be of width \linewidthoutside

Long short text

(iii) i.

Julia.

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

2 \mywidth = 289.93735pt

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.

1

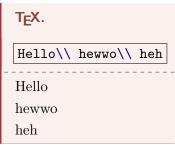
```
This should also have breaklines disabled (But the title should
                break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \linewidthoutside
          This box should be of width \l__listings_autowidth_title_dim
                                 smol.
                                   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 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 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.
```

```
T<sub>E</sub>X.
                                        Hello\\
                                            hewwo\\
                                            heh
                                        Hello
                                        hewwo
                                        heh
(c) autowidth = upper + lower
             Julia.
               \xdef\mywidth{\the\linewidth}\mywidth
               \mbox{mywidth} = 310.41383pt
       (i)
                                 This
                                       should
                                                have
                                 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) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_upper_dim
          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 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.



1.3 (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

smol.

1 Long short text

(b) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_\title, upper_dim

This box should be of width \l__listings_autowidth_lower_dim

smol.

1 \hspace{10cm}

(c) \l__listings_autowidth_title_dim >= \l__listings_autowidth_\langle upper, \dim \dim ower \di

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

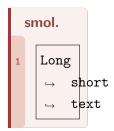
```
Long short text\\
Test \hspace{10cm} testo
```

```
(e)
         Julia.
           \xdef\mywidth{\the\linewidth}\mywidth
           \mbox{mywidth} = 348.53069pt
                         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|
   codeupperwidth: 22.99495pt ____
   codelowerwidth: Opt
(c) \l__listings_autowidth_\(component\)_dim
   ⟨component⟩
                 0.0pt
      title:
      upper:
                 22.99495pt ____
      lower:
                 0.0pt
(d) \g_{\text{listings}} autowidth@core_measured_text_width_dim: 22.99495 pt
(e) \g_{\text{listings}} autowidth@core_measured_width_dim: 56.22197 pt
(f) \g_{\text{listings}} autowidth@core_max_tcb_text_width_dim: 383.60587pt
(g) \g__listings_autowidth@core_max_tcb_width_dim: 416.83289pt
```

ModifiedNewTCBInputListing

2.1 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

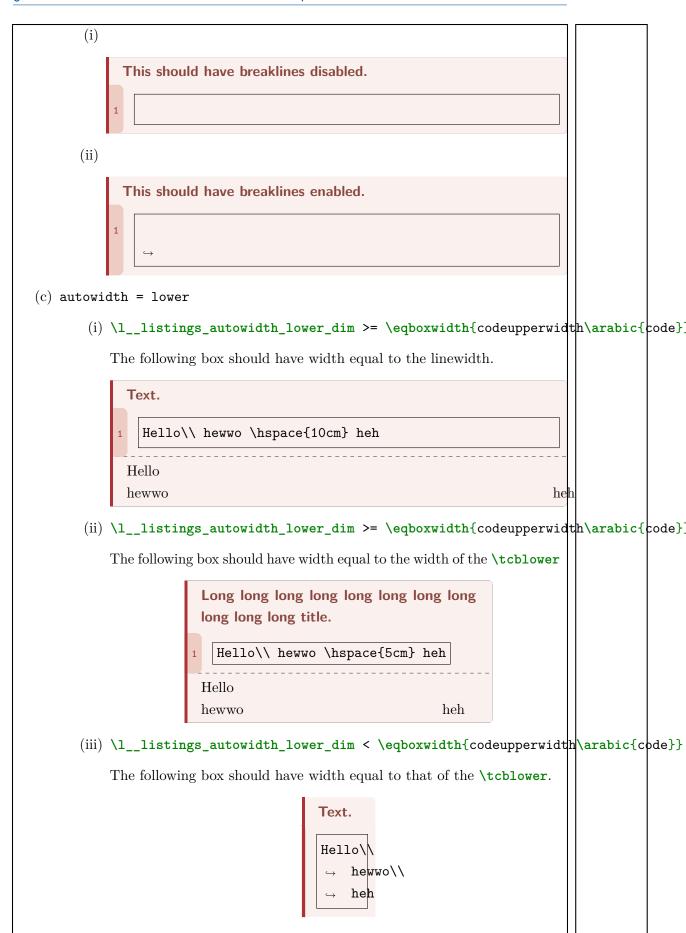
```
Long short text
```

(b) autowidth = upper

```
Text.

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

2  \mywidth = 313.45547pt
```



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 = 289.93735pt

ii.

This should have breaklines disabled.

This should also have breaklines disabled (But the title should

1

iii.

break).

```
§ 2.2
                  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 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
                      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} = 310.41383pt
          (i)
                                           should
                                    This
                                                    have
```

This should have breaklines disabled.

1 \hspace{\mywidth}

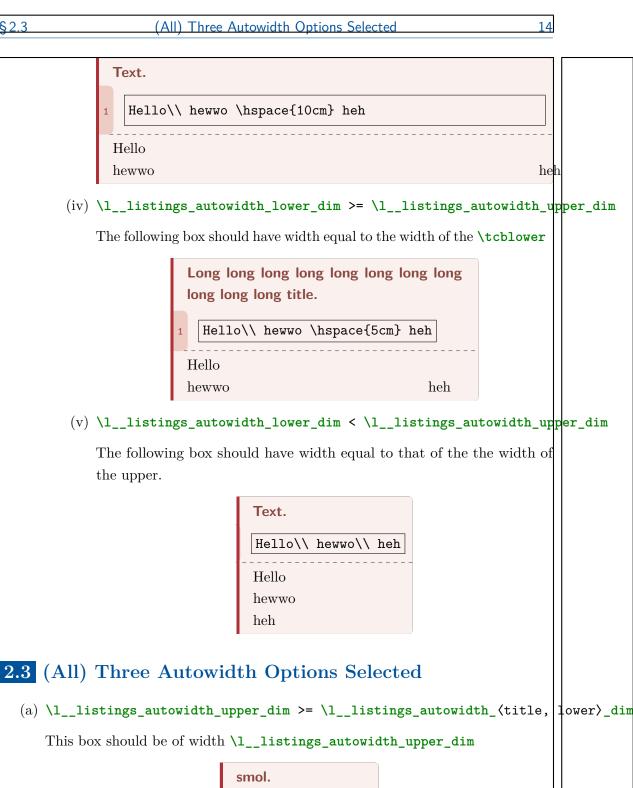
(ii)

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.



(b) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_\langle title, \upper \ This box should be of width \l__listings_autowidth_lower_dim \hspace{10cm}

(c) \l_{listings} autowidth_title_dim >= \l_{listings} autowidth_ \l_{upper} , \l_{lower} 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) Text. \xdef\mywidth{\the\linewidth}\mywidth $\mbox{mywidth} = 348.53069pt$ This should have breaklines disabled. \hspace{\mywidth} (f) This should have breaklines enabled. \hspace{\mywidth+0.00001pt}