0.0

Last successful compile: 2025-09-14 16:57:23+08:00 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⟩ $\verb|codetitlewidth: 0pt|$ codeupperwidth: 383.60588pt ___ ${\tt codelowerwidth:}\ 0pt$ (c) $\label{component}_{dim}$ ⟨component⟩ title: 0.0pt0.0ptupper: 0.0ptlower: (d) \g__listings_autowidth@core_measured_text_width_dim: 0.0pt (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

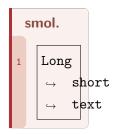
ModifiedNewTCBListing

1.1 One Autowidth Option Selected

(a) autowidth = title

(i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_widt

This box should be of width \l__listings_autowidth_title_dim



(ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width
This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dim

```
Long short text
```

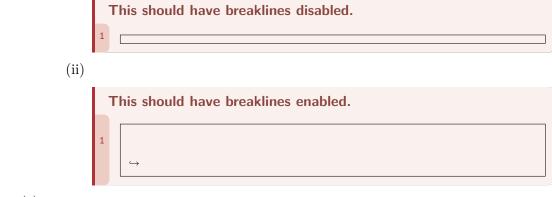
(b) autowidth = upper

```
Julia.

1 \xdef\mywidth{\the\linewidth}\mywidth
2 \mywidth = 313.45552pt
```

(i)





(c) autowidth = lower

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

The following box should have width equal to the linewidth.

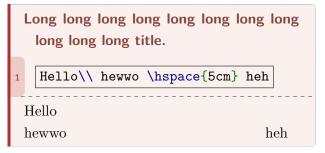
```
TEX.

Hello\\ hewwo \hspace{10cm} heh

Hello
hewwo hello
```

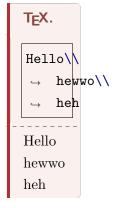
(ii) \l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{code}}

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



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

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



(iv) The following box should compile

```
TEX.

| \centering | Hello \hspace{5cm} there \\ I |

| Hello \text{Hello} there \\ I |
```

1.2 Two Autowidth Options Selected

- (a) autowidth = title + upper
 - (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@dore_max_tcb_width
 This box should be of width \l__listings_autowidth_title_dim



(ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width
This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dir

Long short text

(iii) i.

ii.

This should have one line.

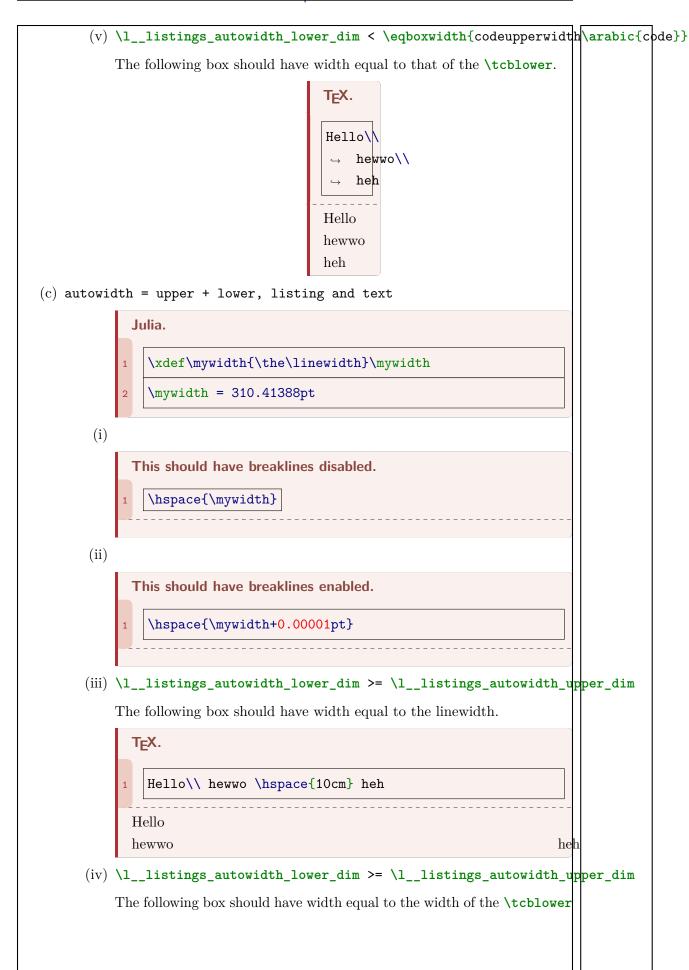
1

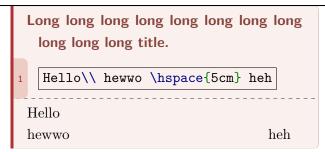
This should also have breaklines disabled (But the title should break).

1

iii.

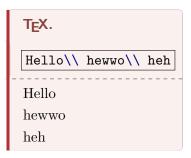
```
This should have breaklines enabled.
                This should have one broken line (some extra text) (But the
                  title should break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@dore_max_tcb_width
          This box should be of width \l__listings_autowidth_title_dim
                                smol.
                                   Long short text
      (ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@cdre_max_tcb_widtl
          This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dir
            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
            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
                  hewwo
                                                  heh
```





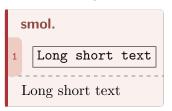
(v) \l__listings_autowidth_lower_dim < \l__listings_autowidth_upper_dim

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

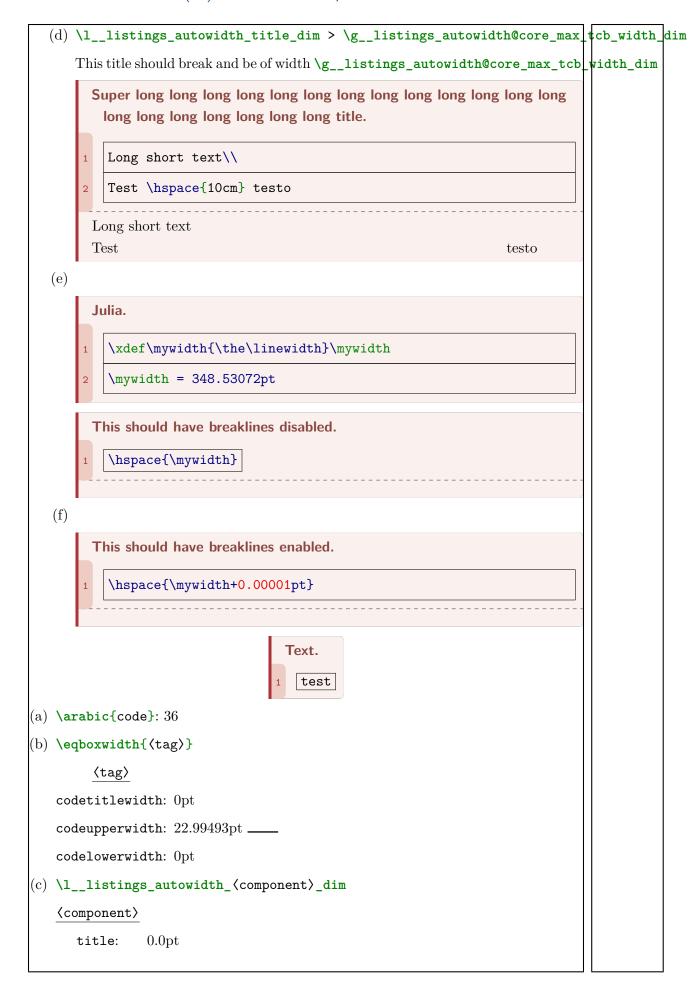


(b) \l__listings_autowidth_lower_dim >= \l__listings_autowidth_\title, upper_dim
This box should be of width \l__listings_autowidth_lower_dim

```
smol.

1 \hspace{10cm}
```

(c) \l__listings_autowidth_title_dim >= \l__listings_autowidth_\(\lambda\) upper, lower_dim
This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dim



	upper:	22.99493pt	
	lower:	0.0pt	
(d)	\glisting	gs_autowidth@core_measured_text_width_dim: 22.99493pt	
(e)	\glisting	gs_autowidth@core_measured_width_dim: 56.22194pt	
(f)	\glisting	gs_autowidth@core_max_tcb_text_width_dim: 383.60588pt	
(g)	\glisting	gs_autowidth@core_max_tcb_width_dim: 416.83289pt	

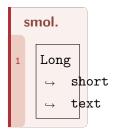
CHAPTER

ModifiedNewTCBInputListing

2.1 One Autowidth Option Selected

- (a) autowidth = title
 - (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_widt

 This box should be of width \l__listings_autowidth_title_dim



(ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width
This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dim

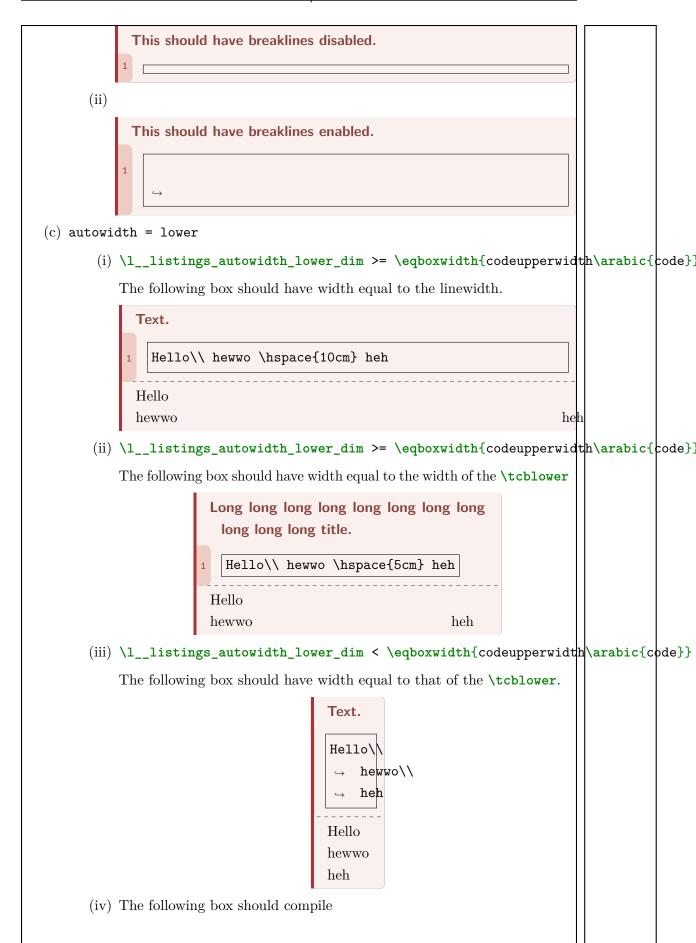
- Long short text
- (b) autowidth = upper

```
Text.

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

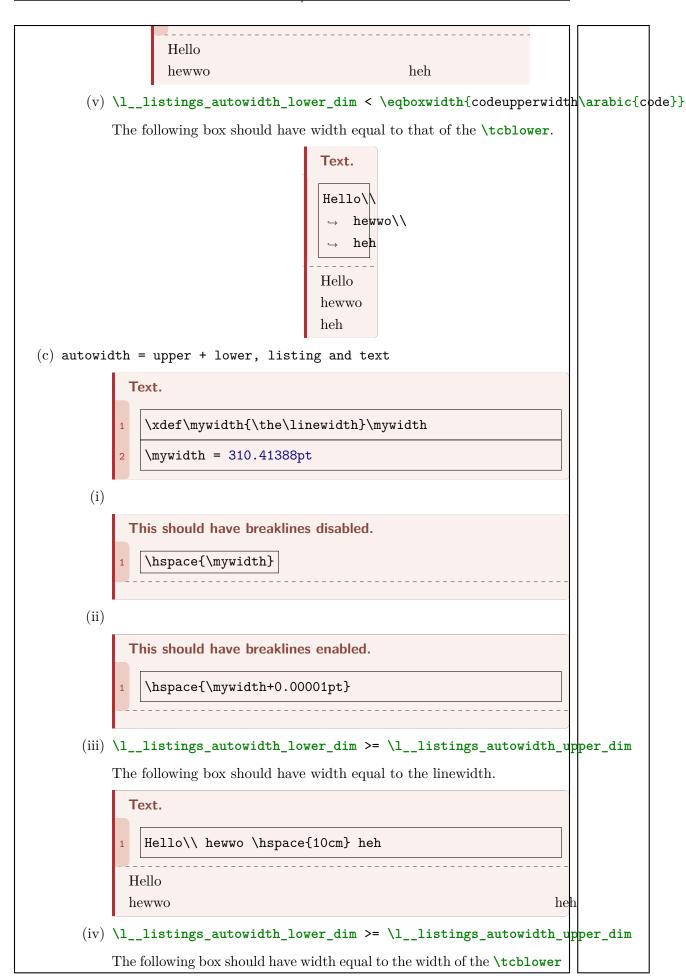
2 \mywidth = 313.45552pt
```

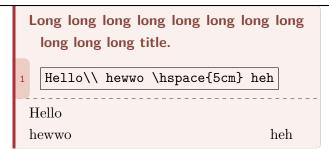
(i)



```
Text.
                       \centering
                      Hello \hspace{5cm} there\\
                     Hello
                                                there
                                    Ι
2.2 Two Autowidth Options Selected
 (a) autowidth = title + upper
        (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@dore_max_tcb_width
          This box should be of width \l_listings_autowidth_title_dim
                             smol.
                               Long short text
       This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dir
            long long long long long long long title.
              Long short text
       (iii) i.
               Text.
                 \xdef\mywidth{\the\linewidth}\mywidth
                 \mbox{mywidth} = 289.9374pt
           ii.
               This should have one line.
               This should also have breaklines disabled (But the title should
                 break).
           iii.
```

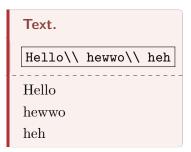
```
This should have breaklines enabled.
                This should have one broken line (some extra text) (But the
                 title should break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@dore_max_tcb_width
          This box should be of width \l__listings_autowidth_title_dim
                                smol.
                                  Long short text
      (ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@cdre_max_tcb_widtl
          This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dir
            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
                 Long long long long long long long long title.
                   Hello\ \ hewwo \ \ heh
```





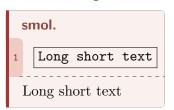
(v) \l__listings_autowidth_lower_dim < \l__listings_autowidth_upper_dim

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



2.3 (All) Three Autowidth Options Selected

(a) \l__listings_autowidth_upper_dim >= \l__listings_autowidth_\tangle 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

```
smol.

1 \hspace{10cm}
```

(c) \l__listings_autowidth_title_dim >= \l__listings_autowidth_\(\lambda\) upper, | lower_dim

This title should break and be of width \g__listings_autowidth@core_max_tcb_width_dim

