0.0	1

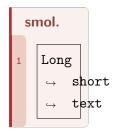
This file is a compilation of various uses of the listing boxes generated with \ModifiedNe	ew"	 
and \ModifiedNewTCBInputListing. In this way, robustness checks are performed to		
ensure they function correctly—as bug-free as possible.		

CHAPTER

## ModifiedNewTCBListing

#### 1.1 One Autowidth Option Selected

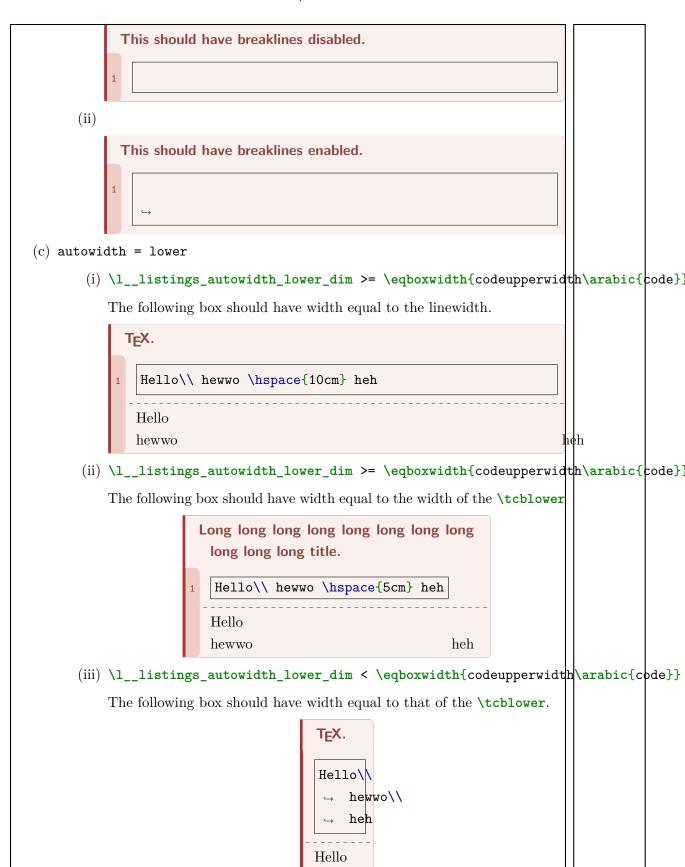
- (a) autowidth = title
  - (i) \l\_\_listings\_autowidth\_title\_dim <= \g\_\_listings\_autowidth@core\_max\_tcb\_widt
    This box should be of width \l\_\_listings\_autowidth\_title\_dim



(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

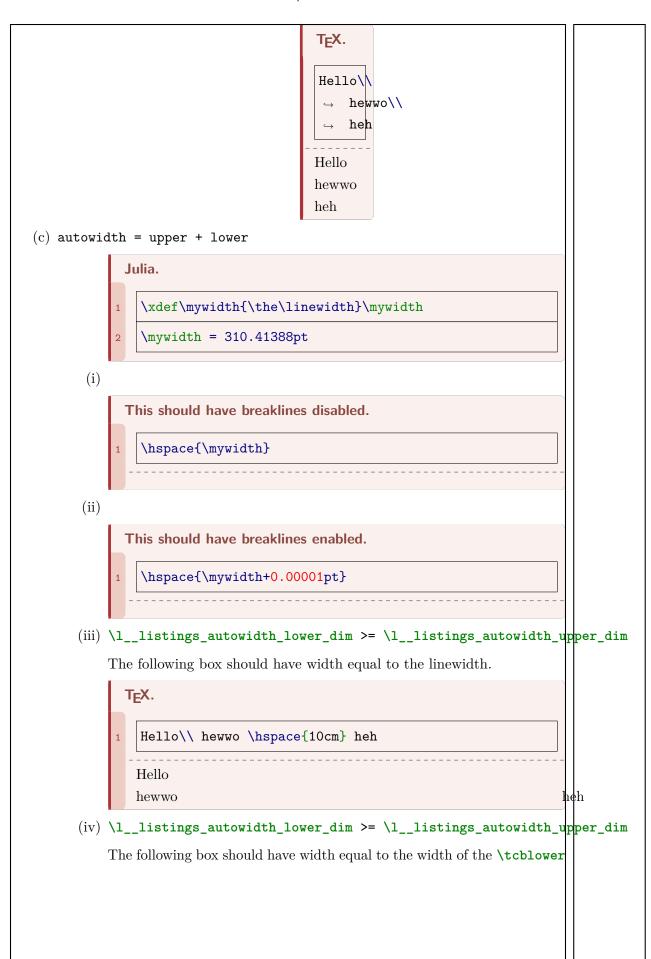
(i)



hewwo heh

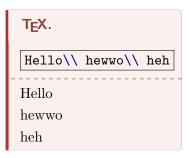
1.2 Two Autowidth Options Selected		
(a) autowidth = title + upper		
(i) \llistings_autowidth_title_dim <= \glistings_autowidth@c	ore_max_tc	_wid
This box should be of width \llistings_autowidth_title_dim		
smol.  1 Long short text		
(ii) \llistings_autowidth_title_dim > \glistings_autowidth@co	re_max_tcb	widtl
This title should break and be of width \glistings_autowidth@core_n	.ax_tcb_widt	th_di
Super long long long long long long long long		
Long short text		
(iii) i.		
Julia.		
\xdef\mywidth{\the\linewidth}\mywidth		
2 \mywidth = 289.9374pt		
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.		
1		

```
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
                                   Long short text
      (ii) \l__listings_autowidth_title_dim > \g__listings_autowidth@cdre_max_tcb_width
          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
                                                                        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 \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.
```



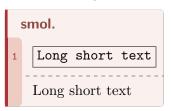
(v) \l\_\_listings\_autowidth\_lower\_dim < \l\_\_listings\_autowidth\_upper\_dim

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\_\langle upper, lower \rangle\_dim

This title should break and be of width \g\_\_listings\_autowidth@core\_max\_tcb\_width\_dim

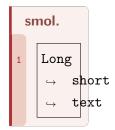
```
(d) \l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width_dim
     This title should break and be of width \g__listings_autowidth@core_max_tcb width_dim
        long long long long long long title.
          Long short text\\
         Test \hspace{10cm} testo
         Long short text
         Test
                                                                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}: 34
(b) \eqboxwidth{⟨tag⟩}
        ⟨tag⟩
   \verb|codetitlewidth: 0pt|\\
   codeupperwidth: 22.99493pt ____
   {\tt codelowerwidth:}\ 0pt
(c) \l__listings_autowidth_\(component\)_dim
   ⟨component⟩
               0.0pt
      title:
```

	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	

## 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

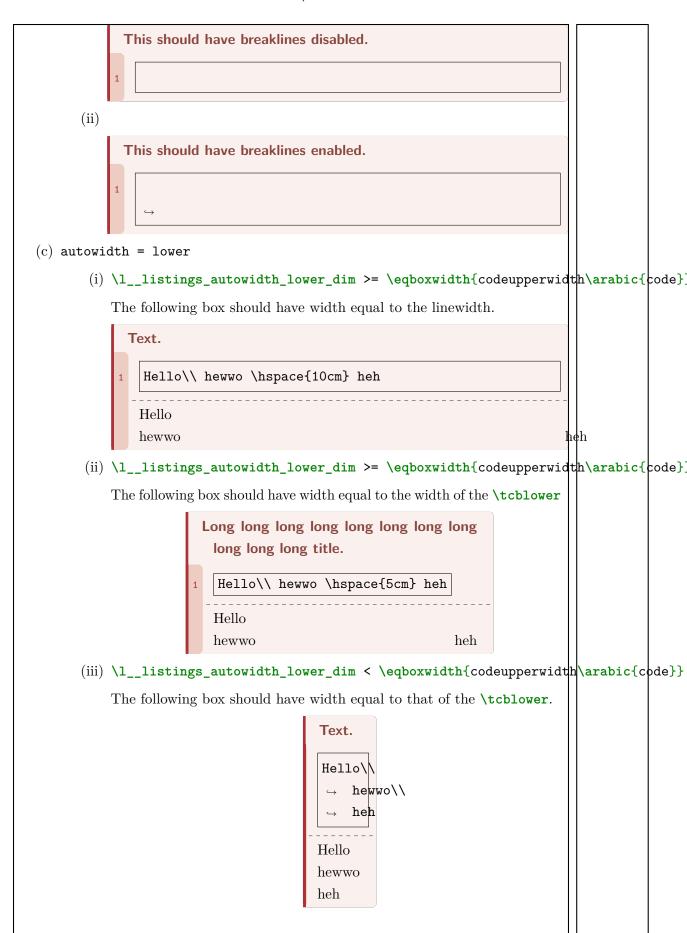
- Long short text
- (b) autowidth = upper

Text.

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

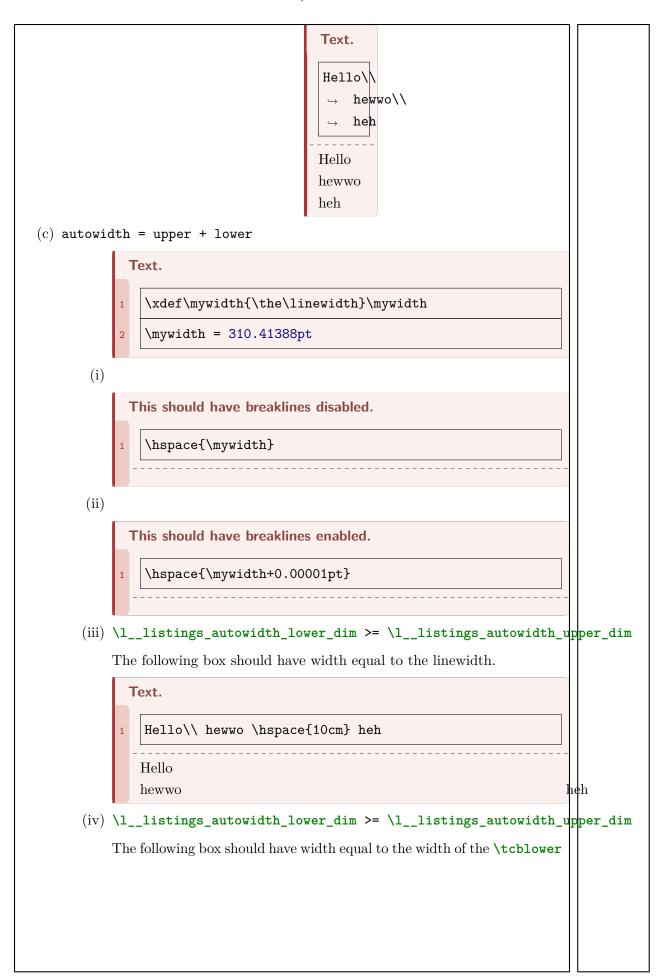
2 \mywidth = 313.45552pt

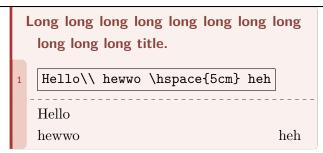
(i)



# 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 (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 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.

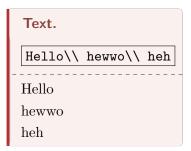
```
This should have one broken line (some extra text) (But the
                 title should break).
(b) autowidth = title + lower
       (i) \l__listings_autowidth_title_dim <= \g__listings_autowidth@dore_max_tcb_width
          This box should be of width \l__listings_autowidth_title_dim
        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





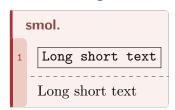
(v) \l\_\_listings\_autowidth\_lower\_dim < \l\_\_listings\_autowidth\_upper\_dim

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

