

Last successful compile: 2025-09-23 07:44:37Z

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.

1

Hello

- (a) `\arabic{code}: 1`
- (b) `\eqboxwidth{<tag>}`

`<tag>`

`codetitlewidth: 0pt`  
`codeupperwidth: 383.60588pt`  
`codelowerwidth: 0pt`
- (c) `\l__listings_autowidth_<component>_dim`

`<component>`

`title: 0.0pt`  
`upper: 0.0pt`  
`lower: 0.0pt`
- (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`

## 1.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`

smol.

1

Long

↪ short

↪ text

This title should break and be of width `\linewidthoutside`

1	Long short text
---	-----------------

1	<code>\xdef\mywidth{\the\linewidth}\mywidth</code>
2	<code>\mywidth = 313.45552pt</code>

(i)

**This should have breaklines disabled.**

1

(ii)

**This should have breaklines enabled.**

1

↪

(c) `autowidth = lower`(i) `\l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{code}}`

The following box should have width equal to the linewidth.

**T<sub>E</sub>X.**

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

(ii) `\l__listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arabic{code}}`The following box should have width equal to the width of the `\tcblower`.**Long long long long long long long long  
long long long title.**

1

Hello\\ hewwo \hspace{5cm} heh

Hello

hewwo

heh

(iii) `\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

```

## 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.**

1 Long short text

(ii) `\l_listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

**Super long title.**

1 Long short text

(iii) i.

**Julia.**

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.

1

↩→

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

1

↩→

(b) `autowidth = title + lower`

(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`

Super long title.

1

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.**

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

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

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

Long long long long long long long long title.

```
1 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`.

TeX.

Hello\\

↔ hewwo\\

↔ heh

Hello

hewwo

heh

(c) `autowidth = upper + lower`

Julia.

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

```
2 \mywidth = 310.41388pt
```

(i)

This should have  
breaklines disabled.

```
1 \hspace{\mywidth}
```

(ii)

This should have breaklines en-  
abled.

```
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.

**T<sub>E</sub>X.**

```
1 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 long title.

```
1 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 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_<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_<upper, lower>_dim`

This title should break and be of width `\linewidthoutside`

Super long long long long long long long long long long title.

```
1 Long short text\\
2 Test \hspace{8.5cm} testo
```

(d) `\l__listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

Super long title.

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

(e)

Julia.

```
1 \xdef\mywidth{\the\linewidth}\mywidth
2 \mywidth = 348.53072pt
```

This should have breaklines disabled.

```
1 \hspace{\mywidth}
```

(f)

This should have breaklines enabled.

```
1 \hspace{\mywidth+0.00001pt}
```

Text.

```
1 test
```

(a) `\arabic{code}`: 35

(b) `\eqboxwidth{<tag>}`

<tag>

codetitlewidth: 0pt



codeupperwidth: 22.99493pt \_\_\_\_

codelowerwidth: 0pt

(c) `\l__listings_autowidth_<component>_dim`

<component>

title: 0.0pt

upper: 22.99493pt \_\_\_\_

lower: 0.0pt

(d) `\g__listings_autowidth@core_measured_text_width_dim`: 22.99493pt

(e) `\g__listings_autowidth@core_measured_width_dim`: 56.22194pt

(f) `\g__listings_autowidth@core_max_tcb_text_width_dim`: 383.60588pt

(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`

**Text.**

1	<code>% ,Title={\footnotesize smol}</code>
2	<code>,Title=smol</code>
3	<code>,autowidth = title</code>
4	<code>]{\TeX}</code>
5	Long short text

(ii) `\l__listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

**Text.**

1	<code>,Title=Super long long long long long long long</code> <code>↪ long long long long long long long long long</code> <code>↪ long long long long title</code>
2	<code>,autowidth = title</code>
3	<code>]{\TeX}</code>

4 Long short text

(b) autowidth = upper

**Text.**

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

(i)

**Text.**

```
1 ,Title=This should have breaklines disabled
2 ,autowidth = upper
3 ]{Julia}
4
```

(ii)

**Text.**

```
1 ,Title=This should have breaklines enabled
2 ,autowidth = upper
3 ]{Julia}
4 ↪
```

(c) autowidth = lower

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

The following box should have width equal to the linewidth.

**Text.**

```
1 ,width=346.68253pt
2 ,autowidth = lower
3 % ,no number
4 ,listing and text
```

5	]{\TeX}
6	Hello\\ hewwo \hspace{10cm} heh

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

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

### Text.

1	,Title=Long long long long long long long long ↪ long long long title
2	,width=346.68253pt
3	,autowidth = lower
4	% ,no number
5	,listing and text
6	]{\TeX}
7	Hello\\ hewwo \hspace{5cm} heh

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

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

### Text.

1	,autowidth = lower
2	,no number
3	,listing and text
4	]{\TeX}
5	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`

**Text.**

```

1      % ,Title={\footnotesize smol}
2      ,Title=smol
3      ,autowidth = title
4      ,autowidth = upper
5  ]{\TeX}
6  Long short text

```

(ii) `\l__listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

**Text.**

```

1      ,Title=Super long long long long long long long
      ↪ long long long long long long long long long
      ↪ long long long long title
2      ,autowidth = title
3      ,autowidth = upper
4  ]{\TeX}
5  Long short text

```

(iii) i.

**Text.**

```

1  \xdef\mywidth{\the\linewidth}\mywidth
2  \mywidth = 289.9374pt

```

ii.

**Text.**

```

1      ,Title=This should have breaklines disabled
2      ,autowidth = title
3      ,autowidth = upper
4  ]{Julia}

```

5

**Text.**

1

```
,Title=This should also have breaklines
↳ disabled
```

2

```
,OTitle=But the title should break
```

3

```
,autowidth = title
```

4

```
,autowidth = upper
```

5

```
] {Julia}
```

6

iii.

**Text.**

1

```
,Title=This should have breaklines enabled
```

2

```
,autowidth = title
```

3

```
,autowidth = upper
```

4

```
] {Julia}
```

5

```
↳
```

**Text.**

1

```
,Title=This should also have breaklines
↳ disabled
```

2

```
,OTitle=But the title should break
```

3

```
,autowidth = title
```

4

```
,autowidth = upper
```

5

```
] {Julia}
```

6

```
↳
```

(b) `autowidth = title + lower`

- (i) `\l__listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__listings_autowidth_title_dim`

#### Text.

```
1      % ,Title={\footnotesize smol}
2      ,Title=smol
3      ,autowidth = title
4      ,autowidth = upper
5    ]{\TeX}
6    Long short text
```

- (ii) `\l__listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

#### Text.

```
1      ,Title=Super long long long long long long long
      ↳ long long long long long long long long
      ↳ long long long long title
2      ,autowidth = title
3      ,autowidth = upper
4    ]{\TeX}
5    Long short text
```

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

The following box should have width equal to the linewidth.

#### Text.

```
1      ,width=346.68253pt
2      ,autowidth = title
3      ,autowidth = lower
4      ,listing and text
5    ]{\TeX}
6    Hello\\ hewwo \hspace{10cm} heh
```

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

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

### Text.

1	<code>,Title=Long long long long long long long long</code> <code>↪ long title</code>
2	<code>,width=346.68253pt</code>
3	<code>,autowidth = title</code>
4	<code>,autowidth = lower</code>
5	<code>,listing and text</code>
6	<code>]{\TeX}</code>
7	<code>Hello\\ hewwo \hspace{5cm} heh</code>

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

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

### Text.

1	<code>,autowidth = title</code>
2	<code>,autowidth = lower</code>
3	<code>,no number</code>
4	<code>,listing and text</code>
5	<code>]{\TeX}</code>
6	<code>Hello\\ hewwo\\ heh</code>

- (c) `autowidth = upper + lower`

### Text.

1	<code>\xdef\mywidth{\the\linewidth}\mywidth</code>
2	<code>\mywidth = 310.41388pt</code>

- (i)



**Text.**

```

1      ,Title=This should have breaklines disabled
2      ,autowidth = upper
3      ,autowidth = lower
4    ]{Julia}
5    \hspace{\mywidth}

```

(ii)

**Text.**

```

1      ,Title=This should have breaklines enabled
2      ,autowidth = upper
3      ,autowidth = lower
4    ]{Julia}
5    \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.

**Text.**

```

1      ,width=346.68253pt
2      ,autowidth = upper
3      ,autowidth = lower
4      ,listing and text
5    ]{\TeX}
6    Hello\\ hewwo \hspace{10cm} 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`**Text.**

```

1      ,Title=Long long long long long long long long
      ↪ long long long title

```

2	,width=346.68253pt
3	,autowidth = upper
4	,autowidth = lower
5	,listing and text
6	]{\TeX}
7	Hello\\ hewwo \hspace{5cm} heh

(v) `\l__listings_autowidth_lower_dim < \l__listings_autowidth_upper_dim`

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

**Text.**

1	,autowidth = upper
2	,autowidth = lower
3	,no number
4	,listing and text
5	]{\TeX}
6	Hello\\ hewwo\\ heh

## 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`

**Text.**

1	,Title=smol
2	,autowidth = title
3	,autowidth = upper
4	,autowidth = lower
5	]{\TeX}
6	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`

**Text.**

```
1      ,Title=smol
2      ,autowidth = title
3      ,autowidth = upper
4      ,autowidth = lower
5      ]{\TeX}
6      \hspace{10cm}
```

(c) `\l__listings_autowidth_title_dim >= \l__listings_autowidth_⟨upper, lower⟩_dim`

This title should break and be of width `\linewidthoutside`

**Text.**

```
1      ,Title=Super long long long long long long long long
      ↪ long long long title
2      ,autowidth = title
3      ,autowidth = upper
4      ,autowidth = lower
5      ]{\TeX}
6      Long short text\\
7      Test \hspace{8.5cm} testo
```

(d) `\l__listings_autowidth_title_dim > \linewidthoutside`

This title should break and be of width `\linewidthoutside`

**Text.**

```
1      ,Title=Super long long long long long long long long
      ↪ long long long long long long long long long
      ↪ long long title
2      ,autowidth = title
3      ,autowidth = upper
4      ,autowidth = lower
5      ]{\TeX}
```

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

(e)

**Text.**

```
1 \xdef\mywidth{\the\linewidth}\mywidth
2 \mywidth = 348.53072pt
```

**Text.**

```
1 ,Title=This should have breaklines disabled
2 ,autowidth = title
3 ,autowidth = upper
4 ,autowidth = lower
5 ]{Julia}
6 \hspace{\mywidth}
```

(f)

**Text.**

```
1 ,Title=This should have breaklines enabled
2 ,autowidth = title
3 ,autowidth = upper
4 ,autowidth = lower
5 ]{Julia}
6 \hspace{\mywidth+0.00001pt}
```