

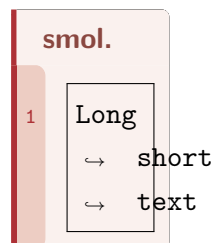
This file is a compilation of various uses of the listing boxes generated with `\ModifiedNewTCBListing` and `\ModifiedNewTCBInputListing`. In this way, robustness checks are performed to ensure they function correctly—as bug-free as possible.

1.1 One Autowidth Option Selected

(a) autowidth = title

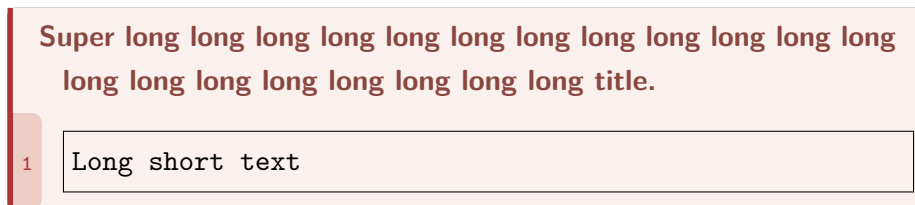
(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_widt`

This box should be of width `\l__listings_autowidth_title_dim`

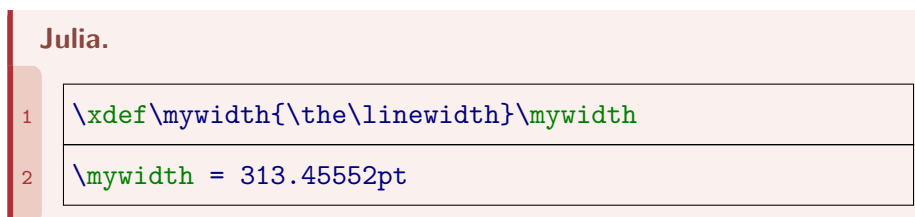


(ii) `\l_listings_autowidth_title_dim > \g_listings_autowidth@core_max_tcb_width`

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



(b) autowidth = upper



(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_EX.

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_EX.

Hello\\

↪ hewwo\\

↪ heh

Hello

hewwo

heh

1.2 Two Autowidth Options Selected

(a) autowidth = title + upper

(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_width`

This box should be of width `\l__listings_autowidth_title_dim`

smol.

1 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_dim`

Super long title.

1 Long short text

(iii) i.

Julia.

1 `\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).

1

↪

(b) `autowidth = title + lower`

(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_width`

This box should be of width `\l__listings_autowidth_title_dim`

smol.

1

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_dim`

Super long long long long long long long long long long long long long long long long 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_EX.

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 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`.

T_EX.

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 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.

T_EX.

```
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 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.

TeX.

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

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 `\g__listings_autowidth@core_max_tcb_width_dim`

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

1 Long short text\\

2 Test `\hspace{8.5cm}` testo

Long short text

Test testo

(d) `\l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width_dim`

<div> <div> This title should break and be of width <code>\g__listings_autowidth@core_max_tcb_width_dim</code> <div> <div> <div>Super long title.</div> <div> <div>1Long short text\\</div> <div>2Test <code>\hspace{10cm}</code> testo</div> </div> <div> <div>Long short text</div> <div>Test</div> <div>testo</div> </div> </div> </div> <div>(e)</div> <div> <div> <div>Julia.</div> <div> <div>1<code>\xdef\mywidth{\the\linewidth}\mywidth</code></div> <div>2<code>\mywidth = 348.53072pt</code></div> </div> </div> <div> <div>This should have breaklines disabled.</div> <div> <div>1<code>\hspace{\mywidth}</code></div> </div> </div> </div> <div>(f)</div> <div> <div> <div>This should have breaklines enabled.</div> <div> <div>1<code>\hspace{\mywidth+0.00001pt}</code></div> </div> </div> <div> <div>Text.</div> <div> <div>1test</div> </div> </div> </div> <div> <div>(a) <code>\arabic{code}</code>: 34</div> <div>(b) <code>\eqboxwidth{<tag>}</code></div> <div> <div><code><tag></code></div> <div>codetitlewidth: 0pt</div> <div>codeupperwidth: 393.60461pt</div> <div>codelowerwidth: 0pt</div> </div> <div>(c) <code>\l__listings_autowidth_<component>_dim</code></div> <div> <div><code><component></code></div> <div>title: 0.0pt</div> <div>upper: 393.60461pt</div> </div> </div> </div></div>	
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lower: 0.0pt

- (d) \g__listings_autowidth@core_measured_text_width_dim: 393.60461pt
- (e) \g__listings_autowidth@core_measured_width_dim: 426.83162pt
- (f) \g__listings_autowidth@core_max_tcb_text_width_dim: 383.60588pt
- (g) \g__listings_autowidth@core_max_tcb_width_dim: 416.83289pt

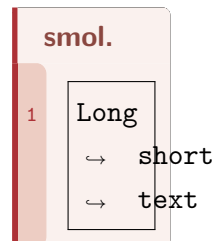
ModifiedNewTCBInputListing

2.1 One Autowidth Option Selected

(a) `autowidth = title`

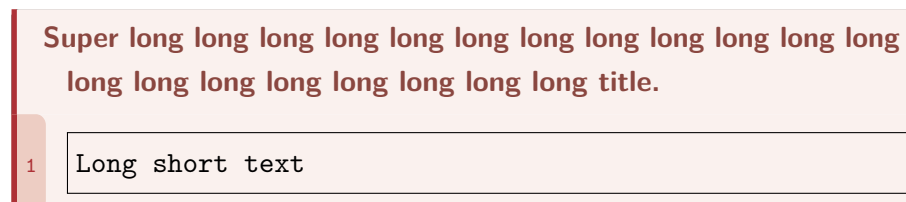
(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_widt`

This box should be of width `\l__listings_autowidth_title_dim`

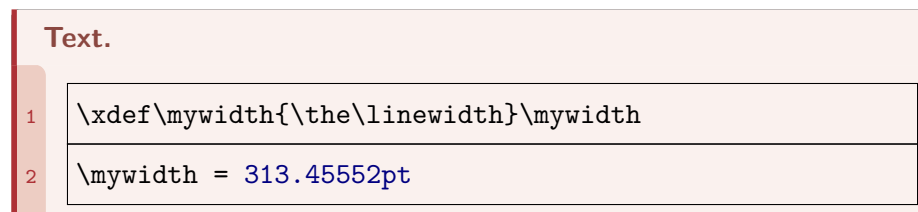


(ii) `\l__listings_autowidth_title_dim > \g__listings_autowidth@core_max_tcb_width`

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



(b) `autowidth = upper`



(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.

Text.

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`.

Text.

Hello\\

↪ hewwo\\

↪ heh

Hello

hewwo

heh

2.2 Two Autowidth Options Selected

(a) autowidth = title + upper

(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_width`

This box should be of width `\l__listings_autowidth_title_dim`

smol.

1 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_dim`

Super long title.

1 Long short text

(iii) i.

Text.

1 `\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).

1

↩

(b) `autowidth = title + lower`

(i) `\l__listings_autowidth_title_dim <= \g__listings_autowidth@core_max_tcb_width`

This box should be of width `\l__listings_autowidth_title_dim`

smol.

1

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_dim`

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.

Text.

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 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`.

Text.

Hello\\
 ↳ hewwo\\
 ↳ heh

Hello
 hewwo
 heh

(c) autowidth = upper + lower

Text.

```
1 \xdef\mywidth{\the\linewidth}\mywidth
2 \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.

Text.

```
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 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.

Text.

Hello\\ hewwo\\ heh

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`

smol.

1 Long short text

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 `\g__listings_autowidth@core_max_tcb_width_dim`

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

1 Long short text\\

2 Test `\hspace{8.5cm}` testo

Long short text

Test testo

(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`

Super long title.

1 Long short text\\

2 Test \hspace{10cm} testo

Long short text

Test testo

(e)

Text.

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}