

<div>Last successful compile: 2025-09-24 05:19:14Z</div> <div>This file is a compilation of various uses of the listing boxes generated with <code>\ModifiedNewTCBListing</code> and <code>\ModifiedNewTCBInputListing</code>. In this way, robustness checks are performed to ensure they function correctly—as bug-free as possible.</div> <div><div>Text.</div><div><div>1</div><div>Hello</div></div></div> <div>(a) <code>\arabic{code}: 1</code></div> <div>(b) <code>\eqboxwidth{&lt;tag&gt;}</code><div><div>&lt;tag&gt;</div><div>codetitlewidth: 0pt</div><div>codeupperwidth: 383.60588pt</div><div>codelowerwidth: 0pt</div></div></div> <div>(c) <code>\l__listings_autowidth_&lt;component&gt;_dim</code><div><div>&lt;component&gt;</div><div>title: 0.0pt</div><div>upper: 0.0pt</div><div>lower: 0.0pt</div></div></div> <div>(d) <code>\g__listings_autowidth@core_measured_text_width_dim: 0.0pt</code></div> <div>(e) <code>\g__listings_autowidth@core_measured_width_dim: 0.0pt</code></div> <div>(f) <code>\g__listings_autowidth@core_max_tcb_text_width_dim: 0.0pt</code></div> <div>(g) <code>\g__listings_autowidth@core_max_tcb_width_dim: 416.83289pt</code></div>	

## 1.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`

1

smol.

Long

↪ short

↪ text

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

1 Long short text

**Julia.**

```
2 \mywidth = 313.45552pt
```

(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 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<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 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<sub>E</sub>X.

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 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



## 2.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`

1 Long  
↪ short  
↪ text

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

1 Long short text

**Text.**

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

(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 <= \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.

**Text.**

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.

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 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 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.

**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 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
```

(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)

**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}
```