

<div>Last successful compile: 2025-09-26 00:31:09Z</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}</code>: 1</div> <div>(b) <code>\eqboxwidth{<tag>}</code><div><div><tag></div><div>codetitlewidth: 0pt</div><div>codeupperwidth: 383.60588pt</div><div>codelowerwidth: 0pt</div></div></div> <div>(c) <code>\l__listings_autowidth_<component>_dim</code><div><div><component></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</code>: 0.0pt</div> <div>(e) <code>\g__listings_autowidth@core_measured_width_dim</code>: 0.0pt</div> <div>(f) <code>\g__listings_autowidth@core_max_tcb_text_width_dim</code>: 0.0pt</div> <div>(g) <code>\g__listings_autowidth@core_max_tcb_width_dim</code>: 416.83289pt</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 = 313.45547pt
```

(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 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 <= \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 long title.

1

Long short text

(iii) i.

Julia.

1

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

2

`\mywidth = 289.93735pt`

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_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 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 = 310.41383pt
```

(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_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.

T_EX.

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 = 348.53069pt
```

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: 22.99495pt ____

codelowerwidth: 0pt

(c) `\l__listings_autowidth_<component>_dim`<component>

title: 0.0pt

upper: 22.99495pt ____

lower: 0.0pt

(d) `\g__listings_autowidth@core_measured_text_width_dim`: 22.99495pt(e) `\g__listings_autowidth@core_measured_width_dim`: 56.22197pt(f) `\g__listings_autowidth@core_max_tcb_text_width_dim`: 383.60587pt(g) `\g__listings_autowidth@core_max_tcb_width_dim`: 416.83289pt

2.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`




Diagram illustrating a mapping process:

- A box labeled "Long" contains the text "Long".
- An arrow points from "Long" to the text "short".
- Another arrow points from "short" to the text "text".

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

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

```
2 \mywidth = 313.45547pt
```

(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 long long long long long long long long long long long
long long long long long long long long title.

1

Long short text

(iii) i.

Text.

1

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

2

```
\mywidth = 289.93735pt
```

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.

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 = 310.41383pt
```

(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 = 348.53069pt

This should have breaklines disabled.

1 \hspace{\mywidth}

(f)

This should have breaklines enabled.

1 \hspace{\mywidth+0.00001pt}