

Last successful compile: 2025-09-27 14:32:51Z

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

1.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`

1 Long
→ short
→ text

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

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

Julia.

```
2 \mywidth = 313.76558pt
```

(i)

This should have no broken line.

1

(ii)

This should have a broken line.

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 <= \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 = 290.24745pt`

ii.

This should have no broken line.

1

This should also have no broken line (But the title should break).

1

iii.

This should have a broken line.

1

↪

This should also have a broken line (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 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 = 310.72394pt
```

(i)

This should have no broken line.

```
1
```

(ii)

This should have a broken line.

```
1
```

```
↔
```

(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 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.

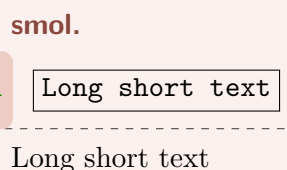


T_EX.
Hello\\ hewwo\\ heh
Hello
hewwo
heh

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
Long short text

(b) `\l__listings_autowidth_lower_dim >= \l__listings_autowidth_<title, upper>_dim`

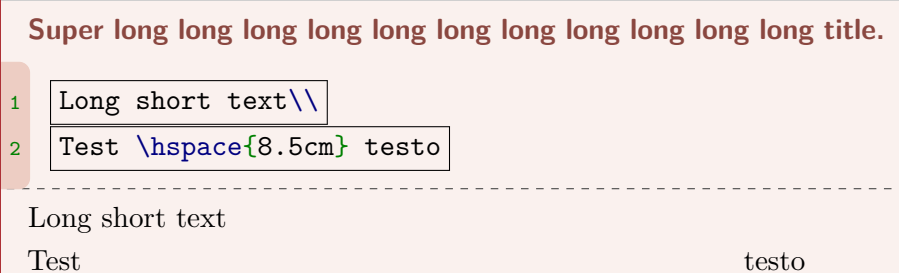
This box should be of width `\l__listings_autowidth_lower_dim`



smol.
1 \hspace{10cm}
\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 title.
1 Long short text\\
2 Test \hspace{8.5cm} testo
Long short text
Test 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

Long short text

Test

testo

(e)

Julia.

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

2 \mywidth = 348.84079pt

This should have no broken line.

1 (Without listing and text)

2

(f)

This should have a broken line.

1 (Without listing and text)

2

↪

Text.

1

test

2.1 One Autowidth Option Selected

(i) `\l__listings_autowidth_title_dim <= \linewidthoutside`




Diagram illustrating a mapping from a long string to a shorter representation:

```

graph LR
    A[Long] --> B[short]
    A --> C[text]
  
```

The diagram shows a box containing the word "Long". Two arrows point from this box to the words "short" and "text" below it.

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

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

Text.

```
2 \mywidth = 313.76558pt
```

(i)

This should have no broken line.

1

(ii)

This should have a broken line.

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 = 290.24745pt
```

ii.

This should have no broken line.

1

This should also have no broken line (But the title should break).

1

iii.

This should have a broken line.

1

↪

This should also have a broken line (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 = 310.72394pt
```

(i)

This should have no broken line.

```
1
```

(ii)

This should have a broken line.

```
1
```

↔

(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
```

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
```

Long short text

Test testo

(d) `\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 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 = 348.84079pt
```

This should have no broken line.

```
1 (Without listing and text)
```

```
2
```

(f)

This should have a broken line.

1 (Without listing and text)

2 ↪