

Last successful compile: 2025-10-19 06:58:24Z

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__Prassble_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 = 313.75139pt
```

(i)

This should have no broken line.

1

(ii)

This should have a broken line.

1

↪

(c) `autowidth = lower`

(i) `\l__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

The following box should have width equal to the linewidth.

T_EX.

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

(ii) `\l__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

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__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arab`

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__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`

smol.

1

Long short text

(ii) `\l__Prassble_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 = 290.23326pt`

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__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`

smol.

1

Long short text

(ii) `\l__Prassble_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__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

The following box should have width equal to the linewidth.

T_EX.

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

(iv) `\l__Prassble_listings_autowidth_title_dim >= \l__Prassble_listings_autow`
`>= \eqboxwidth{codeupperwidth\arab`

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__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arab`

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 = 310.70975pt
```

(i)

This should have no broken line.

1

(ii)

This should have a broken line.

1

↔

(iii) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth`

The following box should have width equal to the linewidth.

T_EX.

```
1 Hello\\ hewwo \hspace{10cm} heh
```

Hello
hewwo

heh

(iv) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth`

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__Prassble_listings_autowidth_lower_dim < \l__Prassble_listings_autowidth_`

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__Prassble_listings_autowidth_upper_dim >= \l__Prassble_listings_autowidth_` <titl

This box should be of width `\l__Prassble_listings_autowidth_upper_dim`



smol.

1 Long short text

Long short text

(b) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth_` <titl

This box should be of width `\l__Prassble_listings_autowidth_lower_dim`

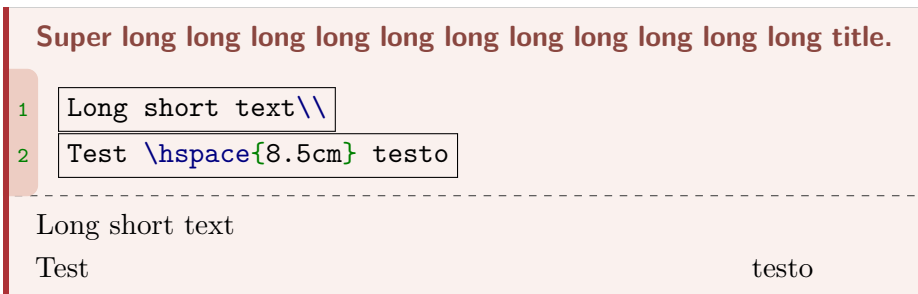


smol.

1 \hspace{10cm}

(c) `\l__Prassble_listings_autowidth_title_dim >= \l__Prassble_listings_autowidth_` <uppe

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__Prassble_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 = 348.8266pt

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

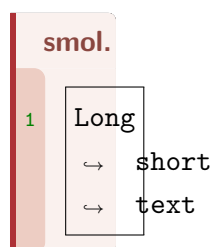
ModifiedNewTCBInputListing

2.1 One Autowidth Option Selected

(a) `autowidth = title`

(i) `\l__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`



(ii) `\l__Prassble_listings_autowidth_title_dim > \linewidthoutside`

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

Super long title.

1 Long short text

(b) `autowidth = upper`

Text.

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

2 `\mywidth = 313.75139pt`

(i)

This should have no broken line.

1

(ii)

This should have a broken line.

1

↪

(c) `autowidth = lower`(i) `\l__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

The following box should have width equal to the linewidth.

Text.

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

(ii) `\l__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`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__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arab`The following box should have width equal to that of the `\tcblower`.**Text.**

Hello\\

↪ hewwo\\

↪ heh

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__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`

smol.

1

Long short text

(ii) `\l__Prassble_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__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

The following box should have width equal to the linewidth.

Text.

1

Hello\\ hewwo \hspace{10cm} heh

Hello

hewwo

heh

(iv) `\l__Prassble_listings_autowidth_title_dim >= \l__Prassble_listings_autow`
`>= \eqboxwidth{codeupperwidth\`

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__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arab`

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 = 310.70975pt
```

(i)

This should have no broken line.

```
1
```

(ii)

This should have a broken line.

```
1
```

↔

(iii) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth`

The following box should have width equal to the linewidth.

Text.

```
1 Hello\\ hewwo \\hspace{10cm} heh
```

Hello

hewwo

heh

(iv) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth`

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__Prassble_listings_autowidth_lower_dim < \l__Prassble_listings_autowidth`

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__Prassble_listings_autowidth_upper_dim >= \l__Prassble_listings_autowidth` <titl

This box should be of width `\l__Prassble_listings_autowidth_upper_dim`

smol.

```
1 Long short text
```

Long short text

(b) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth` <titl

This box should be of width `\l__Prassble_listings_autowidth_lower_dim`

smol.

```
1 \hspace{10cm}
```

(c) `\l__Prassble_listings_autowidth_title_dim >= \l__Prassble_listings_autowidth_<upper`

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

Super long 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__Prassble_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\\
```

```
2 Test \hspace{10cm} testo
```

Long short text

Test testo

(e)

Text.

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

```
2 \mywidth = 348.8266pt
```

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
↪

2.4 \Inputify

Text.

1 (Without listing and text)

2

Text.

1 (Without listing and text)

2

T_EX.

1 \subsection{Theorems}

2 Contents of the first subsection of this document

3 \begin{theorem}[label=thm:1.1]

4 This is the first theorem.

5 \end{theorem}

6 \begin{proof}

7 This is my proof of the first theorem.

8 \end{proof}

9 %

10 \subsection{Exercises}

11 \begin{exercise}[label=ex:1.1]

12 This is the first exercise.

13 \end{exercise}

14 \begin{answer}

15 This is the first answer to the first exercise.


```
16 \end{answer}
17 %
18 \Input[HW-In-Main]{1.tex}
19 %
```