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Last successful compile: 2025-10-21 07:30:28Z

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

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Decorations

This chapter exists to test whether the positioning of various elements (e.g. the TikZ line number backgrounds) is correct.

(a) Overlay unbroken.

(i) No lower.

T_EX.

1

(ii) With lower.

T_EX.

1

(b) Overlay broken.

(i) No lower.

T_EX.

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52	%

(ii) With lower.

TeX.

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Autowidth

2.1 ModifiedNewTCBListing

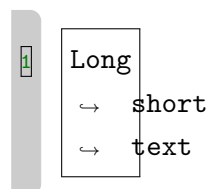
2.2 One Autowidth Option Selected

(a) `autowidth = title`

(i) `\l__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`

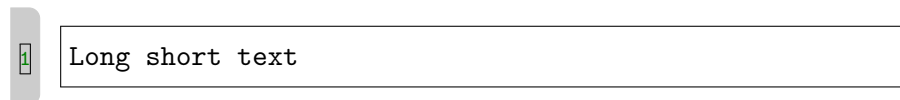
smol.



(ii) `\l__Prassble_listings_autowidth_title_dim > \linewidthoutside`

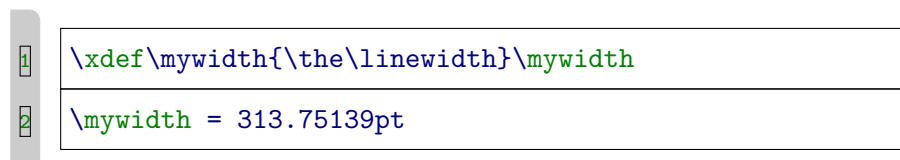
This title should break and be of width `\linewidthoutside`

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

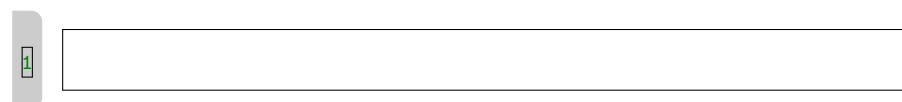


(b) `autowidth = upper`

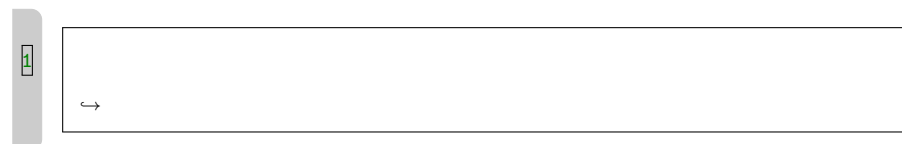
Julia.



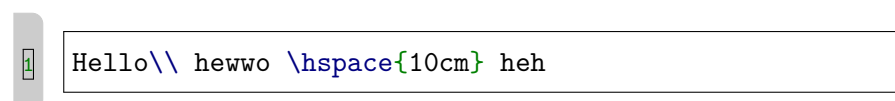
(i)

This should have no broken line.

(ii)

This should have a broken line.(c) `autowidth = lower`(i) `\l__Prassble_listings_autowidth_lower_dim >= \eqboxwidth{codeupperwidth\arab`

The following box should have width equal to the linewidth.

TeX.

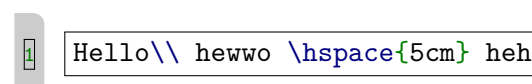
Hello

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`

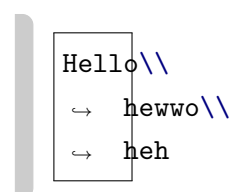
**Long long long long long long long long
long long long title.**



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`.**TeX.**

Hello

hewwo

heh

2.3 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

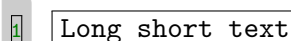
↪

(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.



(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 long long title.**



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

The following box should have width equal to the linewidth.

T_EX.



Hello

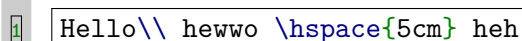
hewwo

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 title.



Hello

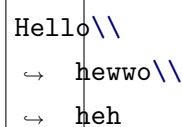
hewwo

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

(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.

TeX.

```
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.

TeX.

```
Hello\\ hewwo\\ heh
```

Hello

hewwo

heh

2.4 (All) Three Autowidth Options Selected

- (a) `\l__Prassble_listings_autowidth_upper_dim >= \l__Prassble_listings_autowidth_upper_dim` <title>

This box should be of width `\l__Prassble_listings_autowidth_upper_dim`

smol.

```
Long short text
```

Long short text

- (b) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth_lower_dim` <title>

This box should be of width `\l__Prassble_listings_autowidth_lower_dim`

smol.

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

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

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

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

```
Long short text\\
```

```
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.

```
Long short text\\
```

```
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
```

2.5 ModifiedNewTCBInputListing

2.6 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`

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

(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\arak`

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\arak`

The following box should have width equal to the width of the `\tcblower`

Long long long long long long long long long long long long long long long title.

1

Hello\\ hewwo \hspace{5cm} heh

Hello

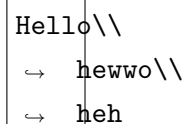
hewwo

heh

(iii) `\l__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arabi`

The following box should have width equal to that of the `\tcblower`.

Text.



Hello

hewwo

heh

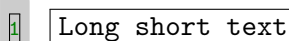
2.7 Two Autowidth Options Selected

(a) `autowidth = title + upper`

(i) `\l__Prassble_listings_autowidth_title_dim <= \linewidthoutside`

This box should be of width `\l__Prassble_listings_autowidth_title_dim`

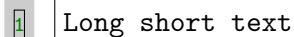
smol.



(ii) `\l__Prassble_listings_autowidth_title_dim > \linewidthoutside`

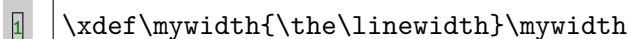
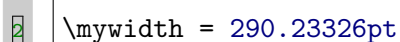
This title should break and be of width `\linewidthoutside`

Super long title.



(iii) i.

Text.

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 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.


```
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.


```
Hello\\ hewwo \\hspace{5cm} heh
```


Hello

hewwo

heh

- (v) `\l__Prassble_listings_autowidth_lower_dim < \eqboxwidth{codeupperwidth\arabi`

The following box should have width equal to that of the `\tcblower`.

Text.



```
Hello\\
↔ hewwo\\
↔ heh
```

Hello


hewwo

heh

- (c) `autowidth = upper + lower`

Text.


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



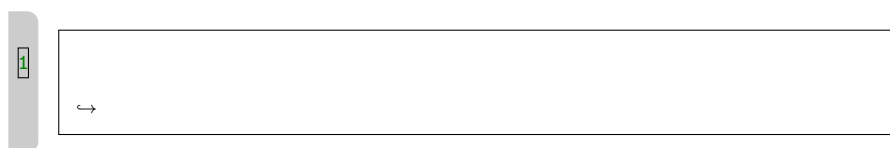
```
\mywidth = 310.70975pt
```

- (i)

This should have no broken line.


- (ii)

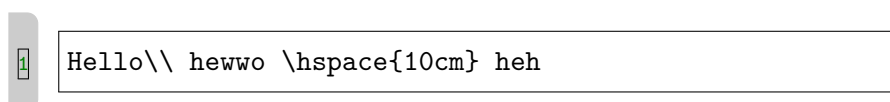
This should have a broken line.



(iii) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth_lower_dim`

The following box should have width equal to the linewidth.

Text.



Hello

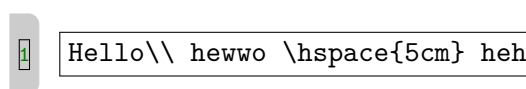
hewwo

heh

(iv) `\l__Prassble_listings_autowidth_lower_dim >= \l__Prassble_listings_autowidth_lower_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.**



Hello

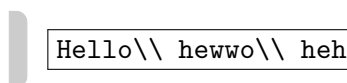
hewwo

heh

(v) `\l__Prassble_listings_autowidth_lower_dim < \l__Prassble_listings_autowidth_lower_dim`

The following box should have width equal to that of the the width of the upper.

Text.



Hello

hewwo

heh

2.8 (All) Three Autowidth Options Selected

(a) `\l__Prassble_listings_autowidth_upper_dim >= \l__Prassble_listings_autowidth_upper_dim`

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 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

↪

2.9 \Inputify

Text.

1 (Without listing and text)

2

Text.

1 (Without listing and text)

2

TeX.

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 %