Last successful compile: 2025-09-26 14:26:01Z

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.
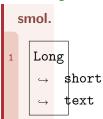
Text.

```
1  Hello
```

ModifiedNewTCBListing

1.1 One Autowidth Option Selected

(a) `autowidth = title`

    (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
```
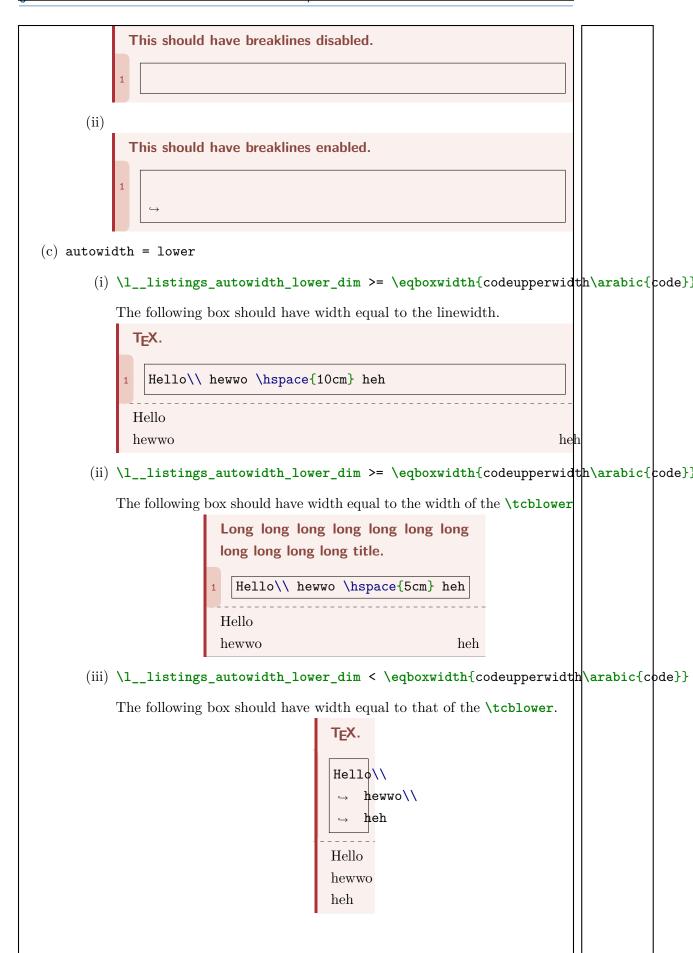
(b) `autowidth = upper`

```
Julia.

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

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 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.
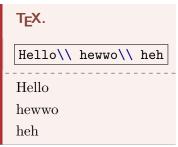
```
1
    ↪
```

> **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 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{cod

　　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 = 310.41383pt
```

(i)

This should have breaklines disabled.

```
1  \hspace{\mywidth}
```

(ii)

This should have breaklines enabled.

```
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 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.

TeX.

`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 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 long long 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`

(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
```

ModifiedNewTCBInputListing

2.1 One Autowidth Option Selected

(a) `autowidth = title`

    (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 title.

1   Long short text
```

(b) `autowidth = upper`

```
Text.

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

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`

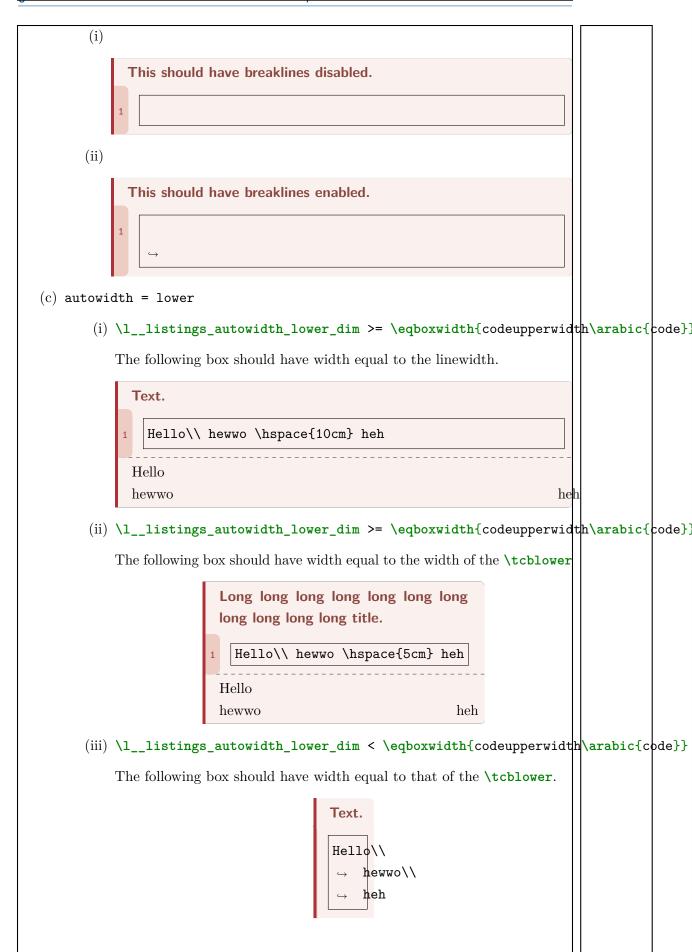   This title should break and be of width `\linewidthoutside`

> **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.**
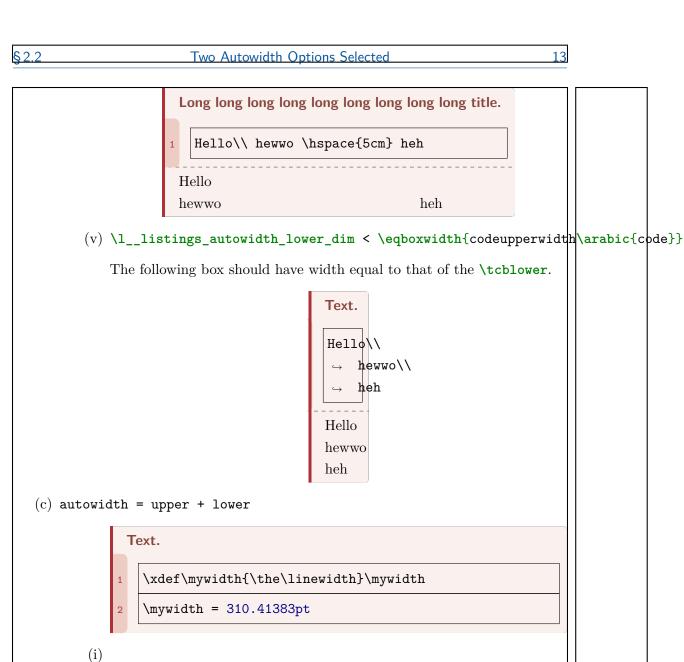>
> | 1 | |

> **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 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{**cod

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`.

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}
```
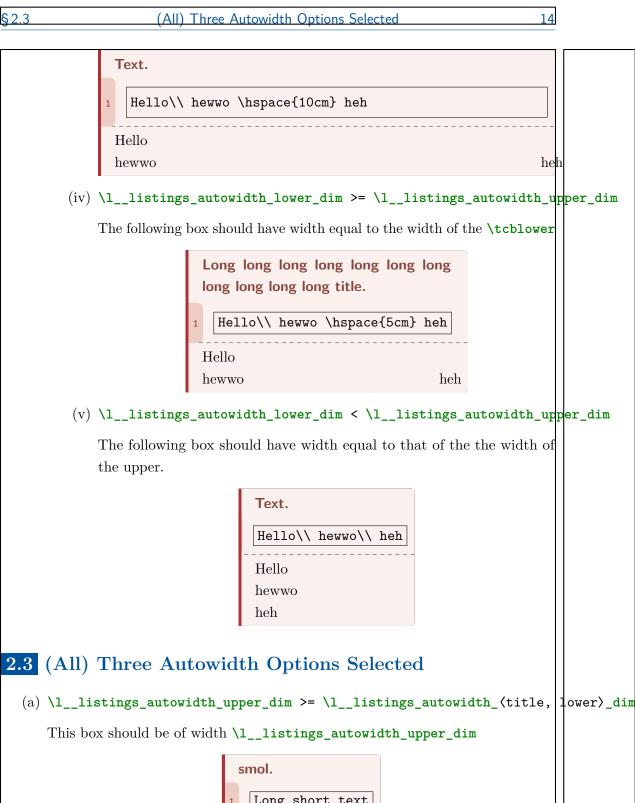
(ii)

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 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\\` |
> |---|---|
> | 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}` |
> |---|---|