CHAPTER

1

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 = 313.45552pt
```

   (i)

This should have breaklines disabled.

```
1 |                                                                    |
```

(ii)

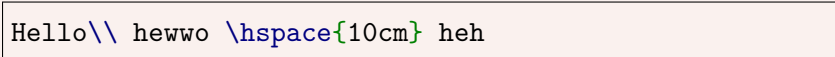**This should have breaklines enabled.**

```
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
```
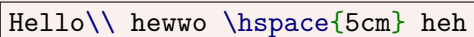
   (ii) **\l__listings_autowidth_lower_dim** >= **\eqboxwidth**{codeupperwidth**\arabic**{code}}

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

Long long long long long long long long long long 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 long title.**
>
> 1 | `Long short text`

    (iii)   i.

> **Julia.**
>
> 1 | `\xdef\mywidth{\the\linewidth}\mywidth`
> 2 | `\mywidth = 289.9374pt`

       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.

TEX.

```
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**.

TEX.

```
Hello\\
↪   hewwo\\
↪   heh
```

Hello

hewwo

heh

(c) `autowidth = upper + lower`

Julia.

```
1   \xdef\mywidth{\the\linewidth}\mywidth
2   \mywidth = 310.41388pt
```

(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.

TEX.

```
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}
```

(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
```
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 long long long 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 = 348.53072pt
> ```

> **This should have breaklines disabled.**
>
> ```
> 1  \hspace{\mywidth}
> ```

(f)

> **This should have breaklines enabled.**
>
> ```
> 1  \hspace{\mywidth+0.00001pt}
> ```

> **TEX.**
>
> ```
> 1  Test
> ```

(a) `\arabic{code}`: 34

(b) `\eqboxwidth{⟨tag⟩}`

    ⟨tag⟩

codetitlewidth: 0pt

codeupperwidth: 383.60588pt

codelowerwidth: 0pt

(c) `\l__listings_autowidth_⟨component⟩_dim`

⟨component⟩

   title: 0.0pt

```
    upper:      0.0pt

    lower:      0.0pt
```

(d) `\g__listings_autowidth@core_measured_text_width_dim`: 0.0pt

(e) `\g__listings_autowidth@core_measured_width_dim`: 0.0pt

(f) `\g__listings_autowidth@core_max_tcb_text_width_dim`: 0.0pt

(g) `\g__listings_autowidth@core_max_tcb_width_dim`: 416.83289pt