

# The $\LaTeX$ package showexpl

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### The listings parameters still works

```
\LaTeX \LaTeX \LaTeX \LaTeX
```

```
\Large\LaTeX{} \LaTeX{}
\LaTeX{} \LaTeX{}

```



### The `pos`, `overhang`, and `caption` parameters

**Example 1:** The `overhang` parameter

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

```
\LaTeX \LaTeX \LaTeX \LaTeX
```



```
\LaTeX \LaTeX \LaTeX \LaTeX
```

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```



### The `wide` parameter with inner and outer position

**Example 2:** The `wide` parameter

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

```
\LaTeX \LaTeX \LaTeX \LaTeX
```



```
\LaTeX \LaTeX \LaTeX \LaTeX
```

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

## More examples on an even (left) page

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}
```

| margin area | | half text area | | half text area |

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}
```

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

**Example 3:** The overhang parameter again

| margin area | | half text area | | half text area |

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}
```

| margin area | | half text area | | half text area |

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}
```

**Example 4:** The wide parameter again

| margin area | | half text area | | half text area |

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}
```

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

**Example 5:** This is a floating Example (parameter `rangeaccept=true`)

1 Line 3 \par	Line 3
2 Line 4 \par	Line 4
3 Line 5 \par	Line 5
4 Line 6 \par	Line 6
5 Line 8 \par	Line 8
6 Line 9 \par	Line 9
7 Line 10 \par	Line 10

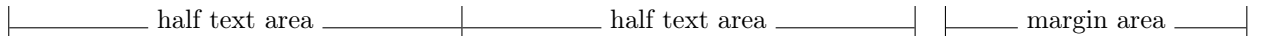
Whole  $\text{\LaTeX}$  documents as example code and the parameters `preset`, `rframe`, and `rangeaccept`

```

1 \documentclass[a4paper,twoside]{article}
2 \begin{document}
3   \begin{equation}
4     \sigma(t)=\frac{1}{\sqrt{2\pi}}
5     \int_0^t e^{-x^2/2} dx
6   \end{equation}
7 \end{document}

```

$$\sigma(t) = \frac{1}{\sqrt{2\pi}} \int_0^t e^{-x^2/2} dx \quad (1)$$

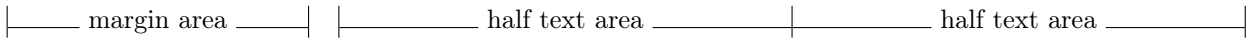


$$\begin{aligned}
 H_c = & \frac{1}{2n} \sum_{l=0}^n (-1)^l (n-l)^{p-2} \sum_{l_1+\dots+l_p=l} \prod_{i=1}^p \binom{n_i}{l_i} \\
 & \cdot [(n-l) - (n_i - l_i)]^{n_i - l_i} \cdot \left[ (n-l)^2 - \sum_{j=1}^p (n_i - l_i)^2 \right].
 \end{aligned} \tag{2}$$

```

1 \documentclass[a4paper,twoside]{article}
2 \usepackage{amsmath}
3 % enhancements for mathematical formulas
4 \begin{document}
5 \begin{equation}\label{eq:barwq}
6 \begin{split}
7 H_c&=\frac{1}{2n}
8 \sum_{l=0}^n (-1)^l (n-l)^{p-2}
9 \sum_{l_1+\dots+l_p=l} \prod_{i=1}^p
10 \binom{n_i}{l_i} \
11 &\quad \cdot [(n-l) - (n_i - l_i)]^{n_i - l_i} \cdot
12 \Bigl[ (n-l)^2 - \sum_{j=1}^p (n_i - l_i)^2 \Bigr].
13 \end{split}
14 \end{equation}
15 \end{document}

```



**Using a graphic as the result**

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X

```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```



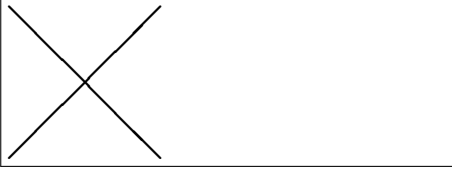
```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

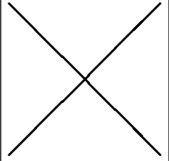


**Example 6:** The graphic parameter

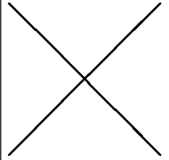
## The parameter `varwidth`

----- half text area -----	----- half text area -----	----- margin area -----
	<pre> 1 \setlength{\unitlength}{1cm} 2 \begin{picture}(2,2) \thicklines 3   \thicklines 4   \put(0,0){\line(1,1){2}} 5   \put(0,2){\line(1,-1){2}} 6 \end{picture} </pre>	

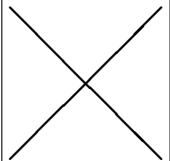
**Example 7:** Fix width of the result (side-by-side default: `0.5\linewidth`)

	<pre> 1 \setlength{\unitlength}{1cm} 2 \begin{picture}(2,2) \thicklines 3   \put(0,0){\line(1,1){2}} 4   \put(0,2){\line(1,-1){2}} 5 \end{picture} </pre>
---	---

**Example 8:** Width of the result reduced to the “natural” width (`varwidth=true`)

	<pre> 1 \setlength{\unitlength}{1cm} 2 \begin{picture}(2,2) \thicklines 3   \put(0,0){\line(1,1){2}} 4   \put(0,2){\line(1,-1){2}} 5 \end{picture} </pre>
--	---

**Example 9:** Fix width of the result (default: `\linewidth`)

	<pre> 1 \setlength{\unitlength}{1cm} 2 \begin{picture}(2,2) 3   \thicklines 4   \put(0,0){\line(1,1){2}} 5   \put(0,2){\line(1,-1){2}} 6 \end{picture} </pre>
---	---

**Example 10:** Result is centered (`varwidth=true`)