

The \LaTeX package showexpl

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The listings parameters still works



\LaTeX \LaTeX \LaTeX \LaTeX

```
\Large\LaTeX{} \LaTeX{}  
\LaTeX{} \LaTeX{}  
|----- half text area -----|----- half text area -----|----- margin area -----|
```

The **pos**, **overhang**, and **caption** parameters



Example 1: The overhang parameter

```
1 \Large\LaTeX{} \LaTeX{}  
2 \LaTeX{} \LaTeX{}  
|----- half text area -----|----- half text area -----|----- margin area -----|
```

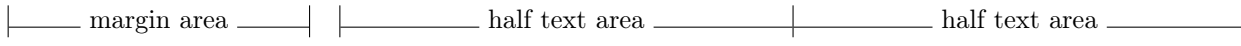
\LaTeX \LaTeX \LaTeX \LaTeX



```
\LaTeX{} \LaTeX{} \LaTeX{} \LaTeX{}  
1 \Large\LaTeX{} \LaTeX{}  
2 \LaTeX{} \LaTeX{}  
|----- half text area -----|----- half text area -----|----- margin area -----|
```

The **wide** parameter with inner and outer position

Example 2: The wide parameter



More examples on an even (left) page

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

```



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

```

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Example 3: The overhang parameter again



$\LaTeX \LaTeX \LaTeX \LaTeX$

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

```



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

```

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Example 4: The wide parameter again



$\LaTeX \LaTeX \LaTeX \LaTeX$

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

```

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 \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}

```

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

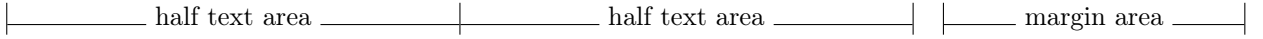


$$H_c = \frac{1}{2n} \sum_{l=0}^n (-1)^l (n-l)^{p-2} \sum_{l_1+\dots+l_p=l} \prod_{i=1}^p \binom{n_i}{l_i} \cdot [(n-l) - (n_i - l_i)]^{n_i - l_i} \cdot \left[(n-l)^2 - \sum_{j=1}^p (n_i - l_i)^2 \right]. \quad (2)$$

```

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_{n_1=0}^n (-1)^{n_1} (n-n_1)^{p-2}
9 \sum_{n_1+\dots+n_p=n} \prod_{i=1}^p \binom{n_i}{n_i} \\
10 &\cdot [(n-n_1) - (n_i - n_i)]^{n_i - n_i} \cdot
11 \Bigl[ (n-n_1)^2 - \sum_{j=1}^p (n_i - n_i)^2 \Bigr].
12 \end{split}
13 \end{equation}
14 \end{document}

```



Using a graphic as the result



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

```



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

```



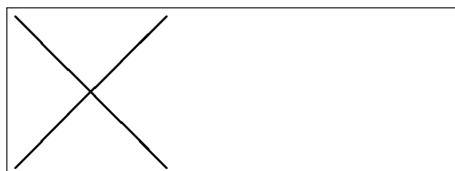
```
1 \Large\LaTeX{} \LaTeX{}
2 \LaTeX{} \LaTeX{}

```

Example 6: The graphic parameter

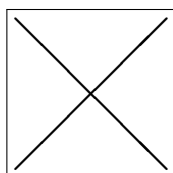
The parameter `varwidth`

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



```
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}
```

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



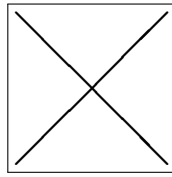
```
1 \setlength{\unitlength}{1cm}
2 \begin{picture}(2,2) \thicklines
3   \put(0,0){\line(1,1){2}}
4   \put(0,2){\line(1,-1){2}}
5 \end{picture}
```

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



```
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}
```

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



```
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}
```

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