# Good-looking line breaks with the listings package

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#### What to do

If you want to typeset source code in LATEX you'll probably end up using the listings package. The output looks good and you have quite a few options to customize it to your taste. Some of those options deal with how long lines are wrapped. Personally, I like them to look this way:

Here, automatically wrapped lines are indicated in a number of ways, namely

- pictographs (∠ and ५),
- indentation of the wrapped lines, and
- a gap in the line numbers.

#### How to do it

In order to achieve this behavior you have to set a few parameters for the listings package:

The parameters *prebreak* and *postbreak* are responsible for the pictographs. Unfortunately the complicated construct using **\raisebox** and **\ensuremath** is required to make it work. The **\space** at the end of *postbreak* adds, well, a space between the pictograph and the continued source code.

Setting *breaklines*=true enables automatic line wrapping whereas *breakatwhitespace*=true ensures that line breaks don't occur inside expressions like variable names.

The last line enables line numbering using *numbers*=left and specifies their appearance as small numbers with *numberstyle*=\scriptsize.

Indentation is enabled by default and set to 20 pt. If you want to change that, use i.e. *breakindent*=10pt.

Finally just one more thing: The commands for the pictographs are defined in the MnSymbol package, therefore you need to load it by writing \usepackage{MnSymbol} in the document's preamble.

## Alternative pictographs

If you're unhappy with the pictographs I selected, the next two pages show a few alternatives.

## \hookleftarrow and \hookrightarrow

No special packages required but looks different with MnSymbol loaded.

#### yields

## \rightharpoondown and \hookrightarrow

No special packages required but looks different with MnSymbol loaded.

#### yields

### \swarrow and \hookrightarrow

No special packages required but looks different with MnSymbol loaded.

yields

## **\Righttorque** and **\Lefttorque**

Requires package marvosym.

```
\lstset{prebreak=\Righttorque}
\lstset{postbreak=\Lefttorque}
```

yields