# qolistings.sty Package

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# Contents

| 1 | Introduction  | 1 |
|---|---|---|
| 2 | 2 Useage  | 1 |
|   | 2.1 The  \qua | 1 |
|   | 2.2 Ontional Arguments  | 1 |

## 1 Introduction

This package builds on the listings package to provide appealing and professional default styles with an easy interface for common options.

# 2 Usage

### 2.1 The \quinquilisting Command

This command is analogous to the \lstinputlisting command provided by the listings package. It takes one mandatory argument, which should be the name of the file to include, and one optional argument which should be a series of comma separated key-value pairs (parsed by the keyval package). These key-value pairs are as follows, where the option is given on the left, the possible values in the centre (a "-" indicates that the option will default to "true" if no value is given), and the default value is given on the right.

### 2.2 Optional Arguments

The optional arguments for the commands in the **\qolistings** package are listed here in yellow, followed by the allowable values, then the default value. A value of "-" indicates that the key can be given with no values, in which case it is given a value of "true". The corresponding global options, where appropriate, are given in blue.

This option takes as its argument a list of key-value pairs to be passed to the listings package, which should be encased in single braces only (for example, 1st options = {stringstyle = \color{red}, commentstyle = \tiny}). Encasing these in double braces will cause errors as this will not be correctly expanded before being passed to the keyval package by listings.

These key-value pairs must also be valid options for a style in the listings package. These are applied after the default style (and any other options), and so if a key is given a value in both 1st options and the default style, the value given in 1st options is used.

This option is almost identical to the lst options option, except that it is applied before the default style (and subsequently before lst options), and so key-value pairs given in lst early options have the lowest priority. This doesn't currently have many direct applications, but should allow for more compatibility should this package be expanded.

If true, then comments encased by the escapeinside tokens are rendered as normal LATEX code rather than printed verbatim. By default, the escape tokens are "(\*" and "\*)", though these can of course be changed by passing {escapeinside = {<token1>}{<token2>}} to the lst options key.

| latex maths | -, $true$ , $false$ | false |
|-------------|---------------------|-------|
| latexmaths  |                     |       |
| latex math  | -, true, false      | false |
| latexmath   |                     |       |

If true (either with the U.S. or U.K. spelling), anything encased in dollar signs will be rendered as LATEX maths rather than printed verbatim. Note that this applies to the entire file, not just to comments, and is independent of the latex comments option. This means that any \$ anywhere in the file must be accompanied by a corresponding closing \$, and the contents **must** be valid input for a LATEX maths environment. (Be especially careful of escape sequences! Even strings written to be valid LATEX when printed or passed to plotting tools may not be if backslashes need to be escaped.)

This flag simply sets both latex comments and latex maths to its own value. This is processed before the latex comments and latex maths options, so their values will override the latex flag.

For better frame and background handling, all listings are encased in an mdframed environment. This option takes as its argument a list of key-value pairs to be passed to the mdframed package. Again, these should be encased in a single brace only.

These key-value pairs must also be valid options for a style in the mdframed package. These are applied last, after any other key-value pairs are handled for the mdframed environment.

If true, the listing is given a background colour of BackgroundColour.

If true, the listing is given rounded corners with radius 0.5 em. This has no effect if both background and frame are false.

This option handles the frame of the listing. If true, then the listing is given a frame on all four sides. This option can also take any combination of "1", "t", "r", and "b", which correspond to a left, top, right, and bottom edge frame. Any combination of these (in any order) will draw a frame on each edge given. For example, frame = blr will draw a frame on all but the top edge.