latexindent.pl

Version 3.0

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latexindent.pl is a Perl script that indents .tex (and other) files according to an indentation scheme that the user can modify to suit their taste. Environments, including those with alignment delimiters (such as tabular), and commands, including those that can split braces and brackets across lines, are usually handled correctly by the script. Options for verbatim-like environments and commands, together with indentation after headings (such as chapter, section, etc) are also available. The script also has the ability to modify line breaks, and add comment symbols. All user options are customisable via the switches in the YAML interface.

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0.0.1 The remaining code blocks

Referencing the different types of code blocks in ?? on page ??, we have a few code blocks yet to cover; these are very similar to the commands code block type covered comprehensively in ?? on page ??, but a small discussion defining these remaining code blocks is necessary.

keyEqualsValuesBraces latexindent.pl defines this type of code block by the following criteria:

- it must immediately follow either { OR [OR , with comments and blank lines allowed;
- then it has a name made up of the characters detailed in ?? on page ??;
- then an = symbol;
- then at least one set of curly braces or square brackets (comments and line breaks allowed throughout).

An example is shown in Listing 1, with the default output given in Listing 2.

and contributors! (See ?? on page ??.) For all communication, please visit [1].



```
LISTING 1: pgfkeys1.tex
```

```
\pgfkeys{/tikz/.cd,
start_coordinate/.initial={0,
\vertfactor},
}
```

LISTING 2: pgfkeys1.tex default output

In Listing 2, note that the maximum indentation is three tabs, and these come from:

- the \pgfkeys command's mandatory argument;
- the start coordinate/.initial key's mandatory argument;
- the start coordinate/.initial key's body, which is defined as any lines following the name of the key that include its arguments. This is the part controlled by the *body* field for noAdditionalIndent and friends from ??.

- it must immediately follow either horizontal space OR one or more line breaks OR { OR [OR \$;
- the name may contain the characters detailed in ?? on page ??;
- then at least one set of curly braces or square brackets (comments and line breaks allowed throughout).

A simple example is given in Listing 3, with default output in Listing 4.

In particular, latexindent.pl considers child, parent and node all to be namedGroupingBracesBrackets¹. Referencing Listing 4, note that the maximum indentation is two tabs, and these come from:

- the child's mandatory argument;
- the child's body, which is defined as any lines following the name of the namedGroupingBracesBrackets that include its arguments. This is the part controlled by the body field for noAdditionalIndent and friends from ??.

UnNamedGroupingBracesBrackets occur in a variety of situations; specifically, we define this type of code block as satisfying the following criteria:

- it must immediately follow either { OR [OR , OR & OR) OR (OR \$;
- then at least one set of curly braces or square brackets (comments and line breaks allowed throughout).

An example is shown in Listing 5 with default output give in Listing 6.

```
LISTING 5: psforeach1.tex

\psforeach{\row}{%} {
    {3,2.8,2.7,3,3.1}},%
    {2.8,1,1.2,2,3},%
}
```

```
LISTING 6: psforeach1.tex default output

\psforeach{\row}{%}

#{
# # #{3,2.8,2.7,3,3.1}},%

#{2.8,1,1.2,2,3},%
}
```

¹ You may like to verify this by using the -tt option and checking indent.log!



Referencing Listing 6, there are *three* sets of unnamed braces. Note also that the maximum value of indentation is three tabs, and these come from:

- the \psforeach command's mandatory argument;
- the first un-named braces mandatory argument;
- the *first* un-named braces *body*, which we define as any lines following the first opening { or [that defined the code block. This is the part controlled by the *body* field for noAdditionalIndent and friends from ??.

Users wishing to customise the mandatory and/or optional arguments on a *per-name* basis for the UnNamedGroupingBracesBrackets should use always-un-named.

filecontents code blocks behave just as environments, except that neither arguments nor items are sought.

0.0.2 Summary

Having considered all of the different types of code blocks, the functions of the fields given in Listings 7 and 8 should now make sense.

	LISTING 7: noAdditionalIndentGlobal		LISTING 8: indentRulesGlobal
247	noAdditionalIndentGlobal:	263	indentRulesGlobal:
248	environments: 0	264	environments: 0
249	commands: 1	265	commands: 0
250	optionalArguments: 0	266	optionalArguments: 0
251	mandatoryArguments: 0	267	mandatoryArguments: 0
252	ifElseFi: 0	268	ifElseFi: 0
253	items: 0	269	items: 0
254	keyEqualsValuesBraces: 0	270	keyEqualsValuesBraces: 0
255	namedGroupingBracesBrackets: 0	271	namedGroupingBracesBrackets: 0
256	UnNamedGroupingBracesBrackets: 0	272	UnNamedGroupingBracesBrackets: 0
257	<pre>specialBeginEnd: 0</pre>	273	specialBeginEnd: 0
258	afterHeading: 0	274	afterHeading: 0
259	filecontents: 0	275	filecontents: 0