

A summarized use of the listing package

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March 23, 2022

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1 Introduction

To get started with the listing package, it is loaded with the command `\usepackage[(options)]{listing}` there are three types of codes which are supported namely: code snippets, code segments and listing pf stand alone files.

1.1 code snippets

this code is used if the code you are willing to write is put inside a sentence. it goes with the code `\lstinline` the code you want to write. the curly brackets are delimiters and they can be replaced with any other characters that is not in the code.

1.2 Displayed Code

This type set encloses it and displays it on its own as a picture. The syntax goes like this

```
1          \begin{lstlisting}
                \**
3          * this is real
```

```

5          */
          for i := maxint to 0 do
            begin
7              {do nothing}
            end;
9
            Write(Case_sensitive)
11          write (Pascal_keywords)
        \end{lstlisting}

```

1.3 Stand alone files

This supported form means to add external code files into the latex program. you have to correctly define the file path. this is the syntax: `\lstinputlistinglisting.sty`.

```

#include<stdio.h>
2 int main(void) {
    printf("Obi is going to school");
4     return 0;
}

```

These are all the ways that the source file of a code in other programming languages can be inputed.

2 How to edit the appearances of the code in latex

Keywords are used to to change things in thr inouted codes like font size, the color, and a lot of things. Sadly, this design only works with displayed codes. and not inline or stand alone files. To start ti design, you use the `\lstset`, then open your curly brackets, ass the following

basicstyle = This is used to chabge the font size

keywordstyle - This is used to highlight keywords used in the code. it takes two argument a command style and an underbar command. The sype include `\ttfamily` and the `\bfseries` then the `\underline`.

Floating: By floating, the codes will appear on top of the page.

2.1 Other features that appear include:

```

1          if (i<=0) then i := 1;
          if (i>=0) then i := 0;
3          if (i<>0) then i := 0;

```

3 Alternatives to the listing mechanism in \LaTeX

This program also have other competitors. Some of them do the job well. Some are independent of \LaTeX while others come with a separate program plus a \LaTeX package. These packages include:

4 \LaTeX commands and their explaintion

`\lstloadlanguages{ $\text{\textit{i}}$ comma separated list of languages $\text{\textit{i}}$ }`