# How can I include source code in LaTeX documents?

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A program called "lgrind" is available in the newtex locker to help you convert program listings to a form easily includable in a LaTeX document. To use this program, type the following at your athena% prompt:

```
athena%  add newtex
    athena%  lgrind -i -llanguage filename > filename.tex
```

This will generate a file (filename.tex) of code (-llanguage) formatted for inclusion in a LaTeX file (-latex). For example, to format a C program called mycode.c:

```
athena%  lgrind -i -lc mycode.c > mycode.c.tex
```

at the bottom of it. You can also format languages other than C:

```
Ada                             MLisp  (ml, Emacs Mock Lisp)
    Asm                             model
    Asm68                           Modula2  (mod2, m2)
    BASIC                           Pascal  (pas, p, bp)
    Batch  (bat)                    PERL  (pl)
    C                               PROLOG
    C++  (CC)                       PostScript  (ps)
    csh                             RATFOR
    FORTRAN  (f77, f)               RLaB
    Gnuplot                         Russell
    Icon                            sh
    ISP                             src
    Java                            SQL
    LaTeX                           Tcl/Tk  (tcl, tk)
    LDL                             VisualBasic  (vbasic)
    Linda                           VMSasm
    MASM                            yacc  (y)
    MATLAB
    SAS
```

To include the encoded file in your document:

1. Include a line in your document preamble:

   ```
   \usepackage{lgrind}
   ```

   or, if you want the code to include function labels on the right hand side,

   ```
   \usepackage[procnames,noindent]{lgrind}
   ```

2. Place the lines

   ```
   \begin{lgrind}
      \input mycode.tex
      \end{lgrind}
   ```

   in your .tex file where you want to insert the formatted code.