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.