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MATLAB CENTRAL

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## **Highlights from** mparser

big\_test( a, b, c )basic expressions

matlab\_ast\_print( ast )function matlab\_ast\_print( ast )

pnp(x)

test\_cell

test\_cntrl

test\_comments

test\_elseif

test\_expr

test\_for

test\_funcs

test\_gp(x) test\_matrix

test\_nested\_funcs(x)

test\_switch

test\_trycatch

test\_while

mparser.m

show\_tree.m

View all files

## mparser

by David Wingate 01 Sep 2011

A matlab lexer and parser written with ANTLR, with a mex interface.





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File Size: 174 KB File ID: #32769

## **File Information**

**Description** This is a MATLAB lexer and parser written using ANTLR. The goal of this package is to provide a way to parse MATLAB code from within MATLAB, and to be able to do source code translations on the resulting

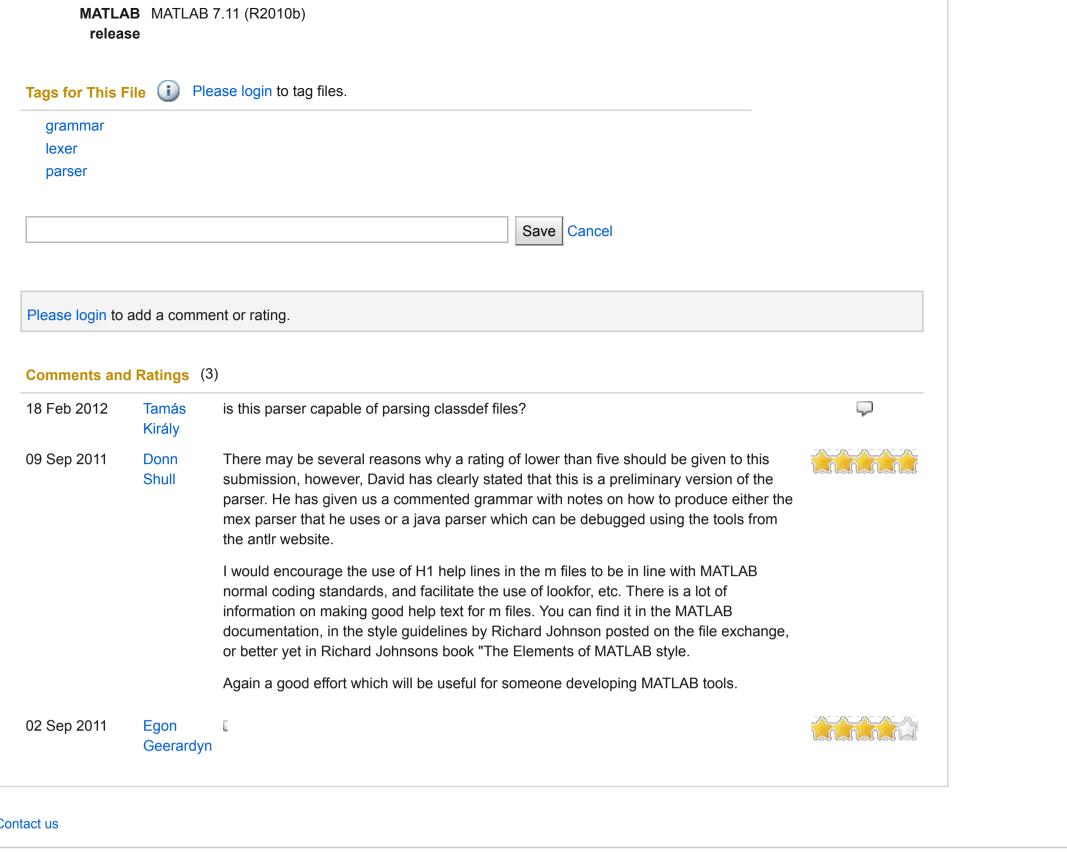
> The main workhorse of this package is "mparser", a MEX file which accepts either a string or a filename and parses it into a deeply nested set of MATLAB structures representing an AST. These can examined and manipulated from within MATLAB.

> Includes a variety of other tools to parse and examine matlab code.

While I have made every effort to be as exact as I can, there are still a few differences between this grammar and the "true" MATLAB grammar. Most of these you will never notice, but there are a few that are significant:

- \* The transpose operator ' is not supported (due to lexing confusion with the single quotes used in string constants).
- \* Constant matrices and cells must have individual elements separated by a comma.
- \* Block comments are not supported.

For others, please see the comments in matlab.g Hopefully, future versions will remedy this.



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