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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 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 AST.

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.

MATLAB release	MATLAB 7.11 (R2010b)

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grammar
lexer
parser

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Comments and Ratings (3)

18 Feb 2012	Tamás Király	is this parser capable of parsing classdef files?	💬
09 Sep 2011	Donn Shull	There may be several reasons why a rating of lower than five should be given to this submission, however, David has clearly stated that this is a preliminary version of the parser. He has given us a commented grammar with notes on how to produce either the mex parser that he uses or a java parser which can be debugged using the tools from the antlr website. I would encourage the use of H1 help lines in the m files to be in line with MATLAB normal coding standards, and facilitate the use of lookfor, etc. There is a lot of information on making good help text for m files. You can find it in the MATLAB documentation, in the style guidelines by Richard Johnson posted on the file exchange, or better yet in Richard Johnsons book "The Elements of MATLAB style. Again a good effort which will be useful for someone developing MATLAB tools.	★★★★★
02 Sep 2011	Egon Geerardyn		★★★★☆

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