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% Test cases for Matlab Functions

% Section : DATA IMPORT AND EXPORT

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% 1.File open, close

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[data,time] = daqread('data.daq');

data = daqread('data.daq','Samples',[500 1000]);

data = daqread('data.daq', 'Samples', [1000 2000],...

'Channels', [2 4 7], 'DataFormat', 'native');

[data, time] = daqread('data.daq', 'Triggers', [1 2]);

data = daqread('data.daq','OutputFormat','tscollection');

daqinfo = daqread('data.daq','info');

M = importdata('myfile.txt', ' ', 1);

nebula\_im = importdata('ngc6543a.jpg');

load gong.mat;

load(demoFile, vars{:});

load('accidents.mat', '-regexp', '^(?!hwy)...');

load('accidents.mat', vars(1:3).name);

open Contents.m

open('D:\temp\data.mat')

save test.mat

save(savefile, 'p', 'q')

save pqfile.txt p q -ASCII

folder\_name = uigetdir

folder\_name = uigetdir(start\_path)

folder\_name = uigetdir(start\_path,dialog\_title)

uiimport

uiimport(filename)

uiimport('-file')

uiimport('-pastespecial')

S = uiimport(...)

[file,path] = uiputfile('animinit.m','Save file name');

[file,path] = uiputfile('\*.mat','Save Workspace As');

[filename, pathname, filterindex] = uiputfile(

{'\*.m;\*.fig;\*.mat;\*.mdl','MATLAB Files (\*.m,\*.fig,\*.mat,\*.mdl)';

'\*.m', 'program files (\*.m)';

'\*.fig','Figures (\*.fig)';

'\*.mat','MAT-files (\*.mat)';

'\*.mdl','Models (\*.mdl)';

'\*.\*', 'All Files (\*.\*)'},

'Save as');

uisave({'h','g'},'var1');

winopen('D:/myfiles/myresults.html');

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% 2.Text file

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csvread('csvlist.dat');

m = csvread('csvlist.dat', 2, 0);

m = csvread('csvlist.dat', 2, 0, [2,0,3,3]);

csvwrite('csvlist.dat',m,0,2);

csvwrite('csvlist.dat',m);

dlmread('myfile.txt');

M = dlmread('myfile.dat', '', 5, 2);

dlmread('myfile.txt', '\t', 2, 3);

dlmwrite('myfile.txt', M, 'delimiter', '\t');

dlmwrite('myfile.txt', [M/3], '-append',

'roffset', 1, 'delimiter', ' ');

dlmwrite('myfile.txt', m, 'precision', '%.6f',

'newline', 'pc');

filetext = fileread(io\_contents);

[names, types, x, y, answer] = textread('mydata.dat',

'%s %s %f %d %s', 1);

data = textread('data.csv', '', 'delimiter', ',',

'emptyvalue', NaN);

C = textscan(str, '%3.1f %\*1d');

C = textscan(fid, '%s %s %f32 %d8 %u %f %f %s %f');

C = textscan(lyric, '%s', 'delimiter', sprintf('\f'));

type('filename');

type filename;

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% 3. SpreadSheets

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[typ, desc, fmt] = xlsfinfo('myaccount.xlsx');

status = xlsfinfo('myaccount.xlsx');

[status,sheets] = xlsfinfo('myaccount.xlsx');

[ndata, text, alldata] = xlsread('myExample.xls');

trim = xlsread('myExample.xls','MyData','','',@setMinMax);

xlswrite('testdata.xls', [12.7, 5.02, -98, 63.9, 0, -.2, 56]);

[status,msginfo] = xlswrite('testdata3.xls', d,'Temperatures', 'E1');

[extens, typ] = wk1finfo('matA.wk1');

M = wk1read('matA.wk1', 3, 2, [4 3 6 6]);

wk1write('matA.wk1', A, 2, 3);

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% 4. Low level File IO

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status = fclose('all');

status = feof(fileID);

message = ferror(fileID);

[message, errnum] = ferror(fileID);

tline = fgetl(fileID);

tline = fgets(fileID);

tline = fgets(fileID, nchar);

[fid,msg] = fopen(filename);

fid = fopen('japanese\_out.txt', 'w', 'n', 'Shift\_JIS');

fprintf('X is %4.2f meters or %8.3f mm\n', 9.9, 9900, B);

m5 = fread(fid, [5, 5], '\*uint8');

frewind(fileID);

A = fscanf(fid, '%g %g', [2 inf]);

fseek(fid1, 9, 'bof');

position = ftell(fileID);

fwrite(fid, magic(5), 'integer\*4');

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% 5. Images

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output = exifread('japanese\_out.txt');

javaImage = im2java(I);

jimage = im2java(X,MAP);

info = imfinfo('ngc6543a.jpg');

imdata = imread('ngc6543a.jpg');

[X,map] = imread('your\_image.tif',6);

imwrite(X,map,'your\_hdf\_file.hdf','Compression','none','WriteMode','append');

t = Tiff('myfile.tif', 'w');

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