
Table of Contents

NTLx zpracovani %%	1
Nacitani vsech dat	1
Zmena formatu dat (txt => double)	2
Dopnit chybejici data	2
Separace dat	3
Plotting	3
KW test	8

NTLx zpracovani %%

```
clear all
close all
clc
```

Nacitani vsech dat

```
directory = uigetdir;
if directory~=0
    filenames = dir(directory);
    if isempty(filenames)==0;
        for idir = 3:size(filenames,1)
            %disp(['Filename: ' filenames(idir).name]);
            filenameList{idir-2,1}=filenames(idir).name;
        end
    end
end

ps=length(filenameList); % pocet subjektu
counter=1;
for i=1:ps % kumlace dat podle mereni
    PMfilenames = dir([directory,'\',...
                      filenameList{i}]);

    for jdir=3:size(PMfilenames,1)
        File=dir([directory,'\', filenameList{i},'\',...
                 PMfilenames(jdir).name]);
        path=[directory,'\',filenameList{i},'\',...
              PMfilenames(jdir).name,...
              '\',File(end).name];

        fid = fopen(path);
        out=textscan(fid,'%s %s %s ');
        fclose(fid);
        pause(0.00001);

        DataTab(:,counter+((counter-1)*2))=...
            [i;jdir-2;out{1,1}];
    end
end
```

```

        DataTab(:,(counter+((counter-1)*2))+1)=...
                                                    [i;jdir-2;out{1,2}]];
        DataTab(:,(counter+((counter-1)*2))+2)=...
                                                    [i;jdir-2;out{1,3}]];

        counter=counter+1;
    end

end

```

Zmena formatu dat (txt => double)

```

[rows,cols]=size(DataTab);

for i = 3:3:cols
    Data(:,i/3)=[DataTab(1:2,i);DataTab(4:9,i)];
end
for i = 2:3:cols
    NTLx(1,(i+1)/3)=DataTab(end,i);
end

B = cellfun(@num2str,Data, 'UniformOutput',...

false);
Data = strrep(B, ',', '.'); %replace ´,´ za ´.´
clear B
B = cellfun(@num2str,NTLx, 'UniformOutput',...

false);
NTLx=strrep(NTLx, ',', '.');

Data=str2double(Data);
NTLx=str2double(NTLx);

```

Dopnit chybejici data

```

maxsu=max(Data(1,:));
maxidx=max(Data(2,:));

DataOrig=nan(6,maxsu*maxidx);

for i=1:maxsu
    [~,cols]=find(Data(1,:)==i);
    num=length(cols);
    if num<maxidx
        DataSampl=[Data(:,cols),...
                    nan(8,maxidx-num)];
        NTLxSampl=[NTLx(:,cols),...
                    nan(1,maxidx-num)];
    else
        DataSampl=Data(:,cols);
        NTLxSampl=NTLx(:,cols);
    end
end

```

```

        end
        DataOrig(:,8*i-7:8*i)=DataSampl(3:end,:);
        NTLxOrig(:,8*i-7:8*i)=NTLxSampl;
    end

```

Separace dat

```

vec=[];
for i=1:maxidx
    vec=[vec,1:8];
end

DataOrig(end+1,:)=vec;

for i = 1:maxidx
    [~,cols]=find(DataOrig(end,')==i);
    Dat1(:,i)=DataOrig(1,cols)';
    Dat2(:,i)=DataOrig(2,cols)';
    Dat3(:,i)=DataOrig(3,cols)';
    Dat4(:,i)=DataOrig(4,cols)';
    Dat5(:,i)=DataOrig(5,cols)';
    Dat6(:,i)=DataOrig(6,cols)';
    DatAll(:,i)=NTLxOrig(1,cols)';
end

```

Plotting

```

close all
boxplot(Dat1)
xlabel('M##ení');
ylabel('MD Score');
saveas(gcf,[pwd, '\results\MD_boxplot'],'png')
figure

boxplot(Dat2)
xlabel('M##ení');
ylabel('PD Score');
saveas(gcf,[pwd, '\results\PD_boxplot'],'png')
figure

boxplot(Dat3)
xlabel('M##ení');
ylabel('TD Score');
saveas(gcf,[pwd, '\results\TD_boxplot'],'png')
figure

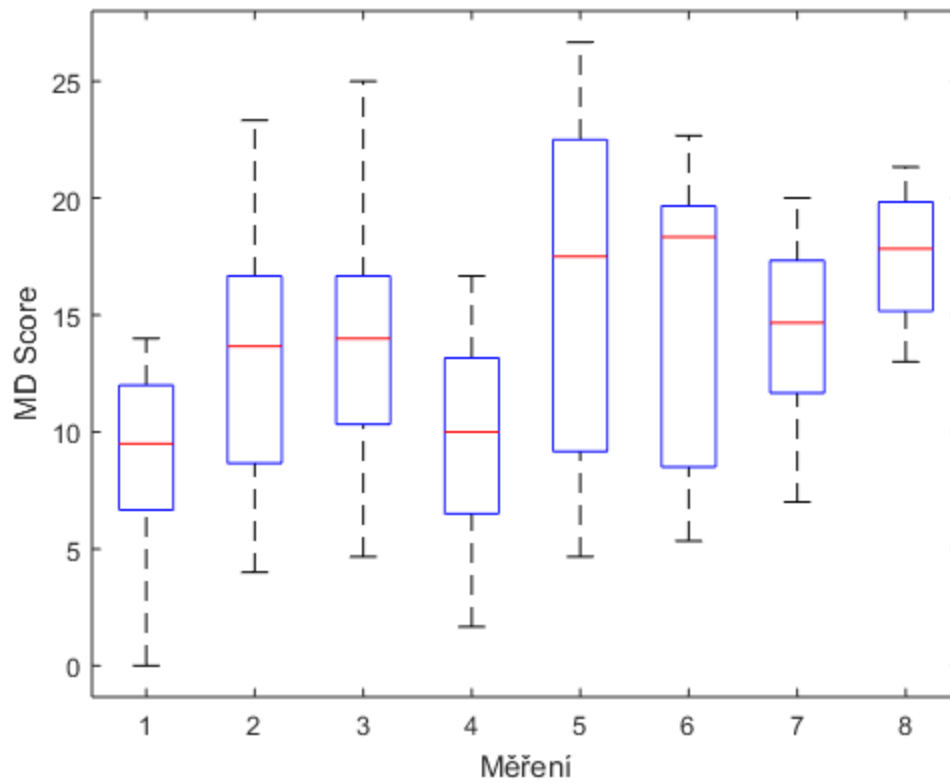
boxplot(Dat4)
xlabel('M##ení');
ylabel('PF Score');
saveas(gcf,[pwd, '\results\PF_boxplot'],'png')
figure

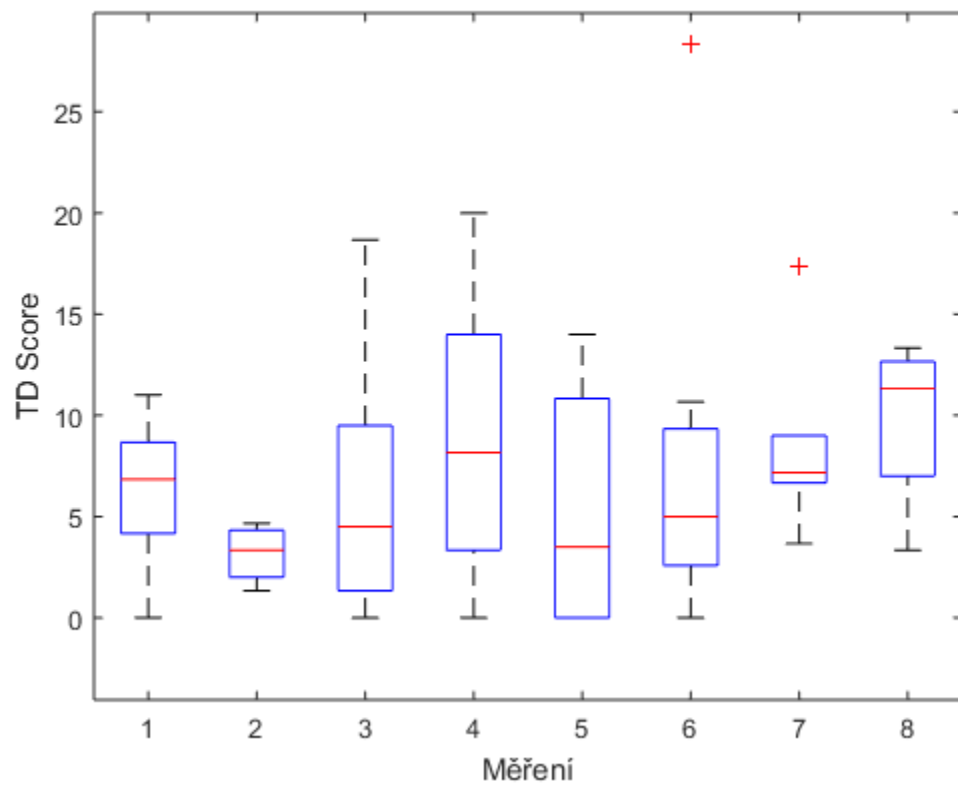
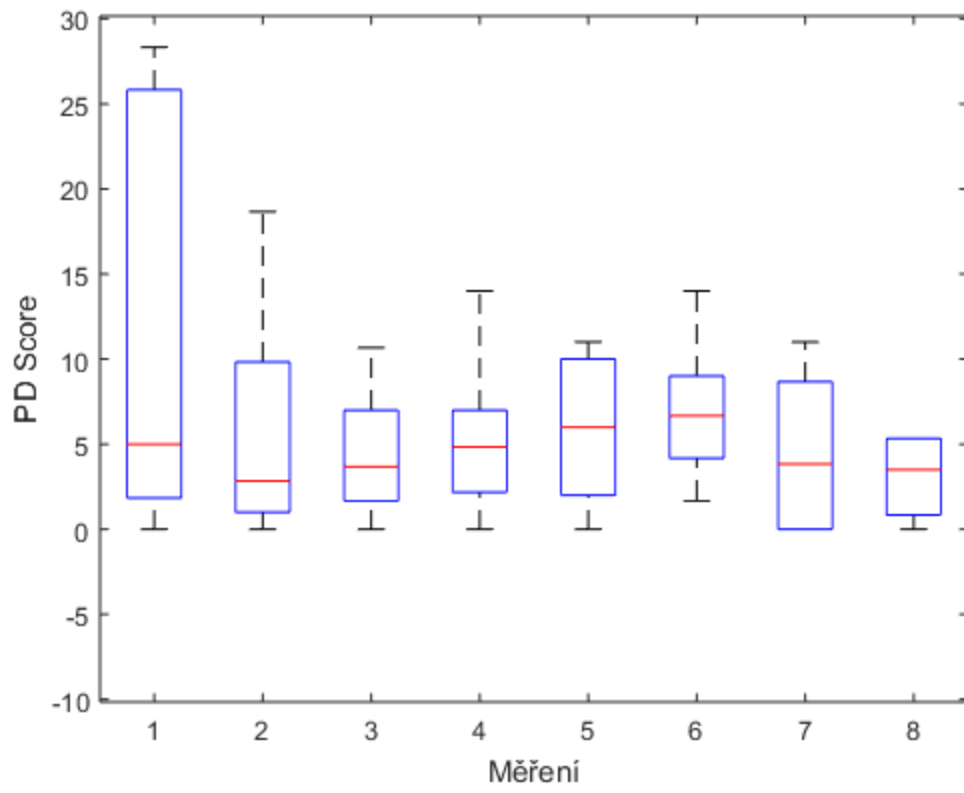
```

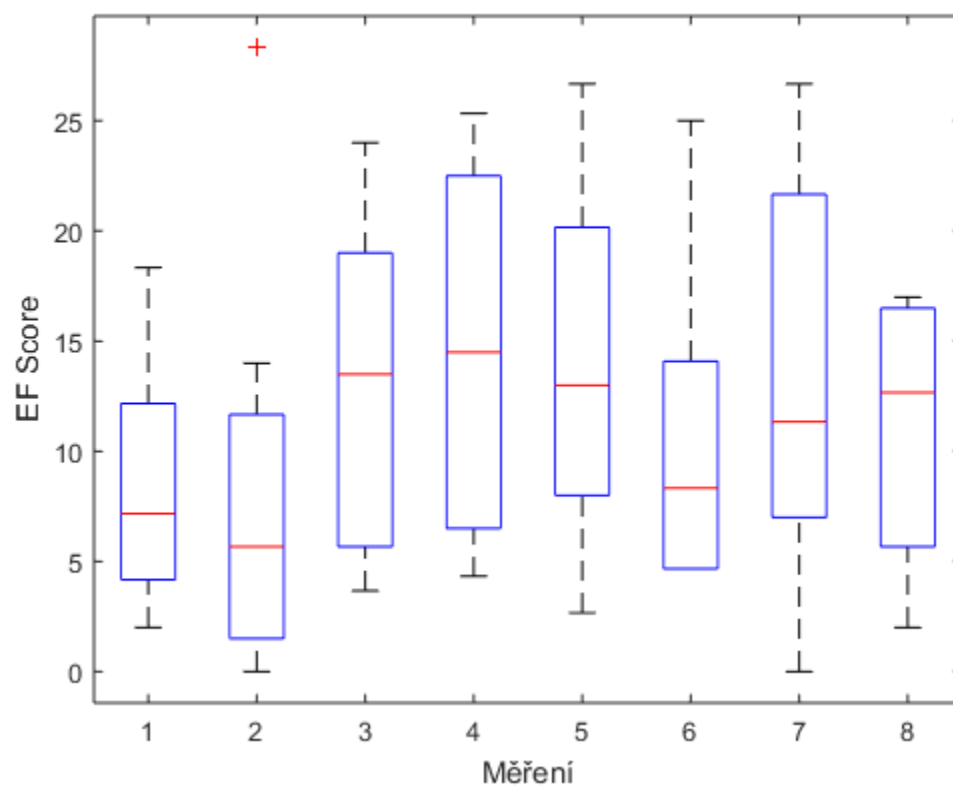
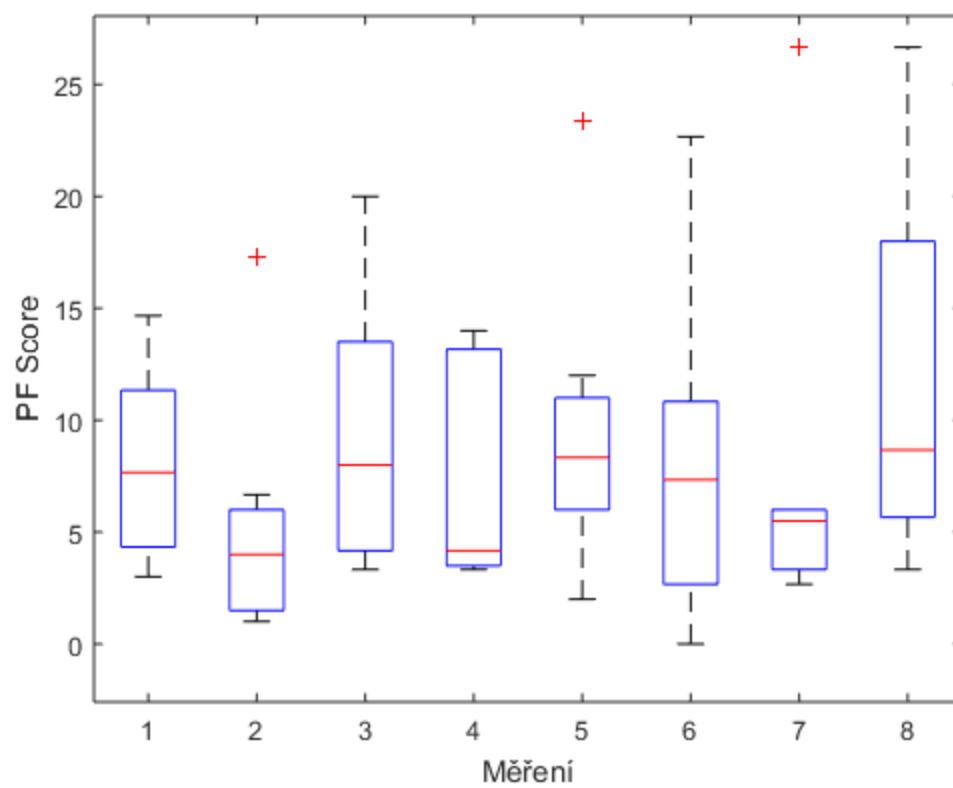
```
boxplot(Dat5)
xlabel('M##ení');
ylabel('EF Score');
saveas(gcf,[pwd, '\results\EF_boxplot'],'png')
figure

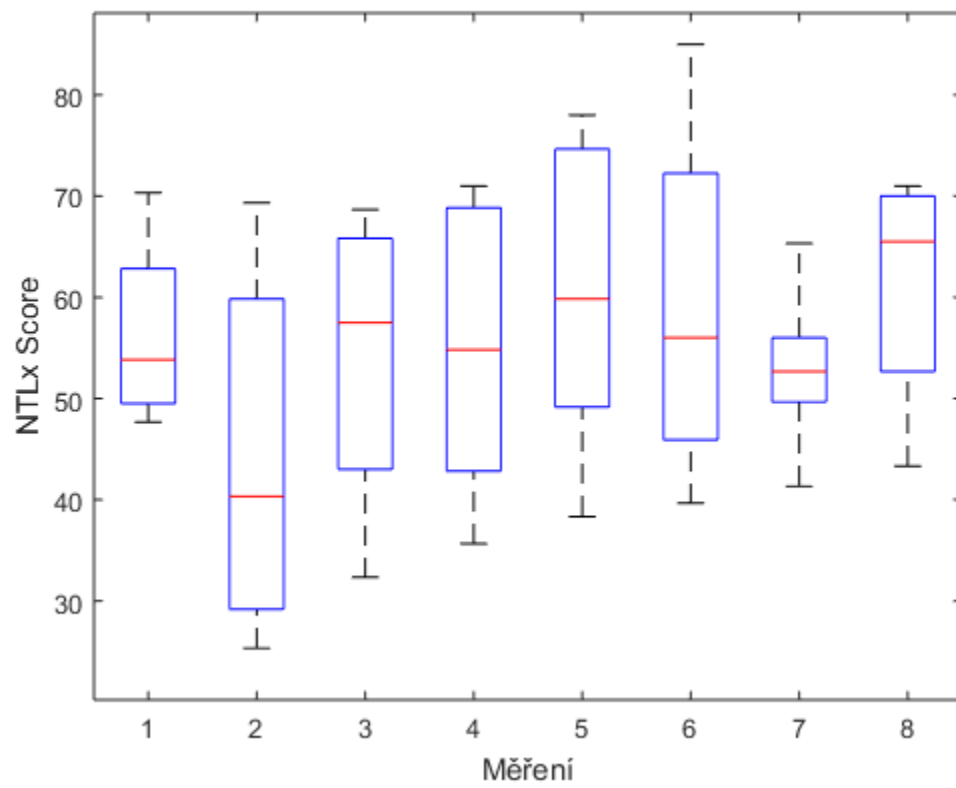
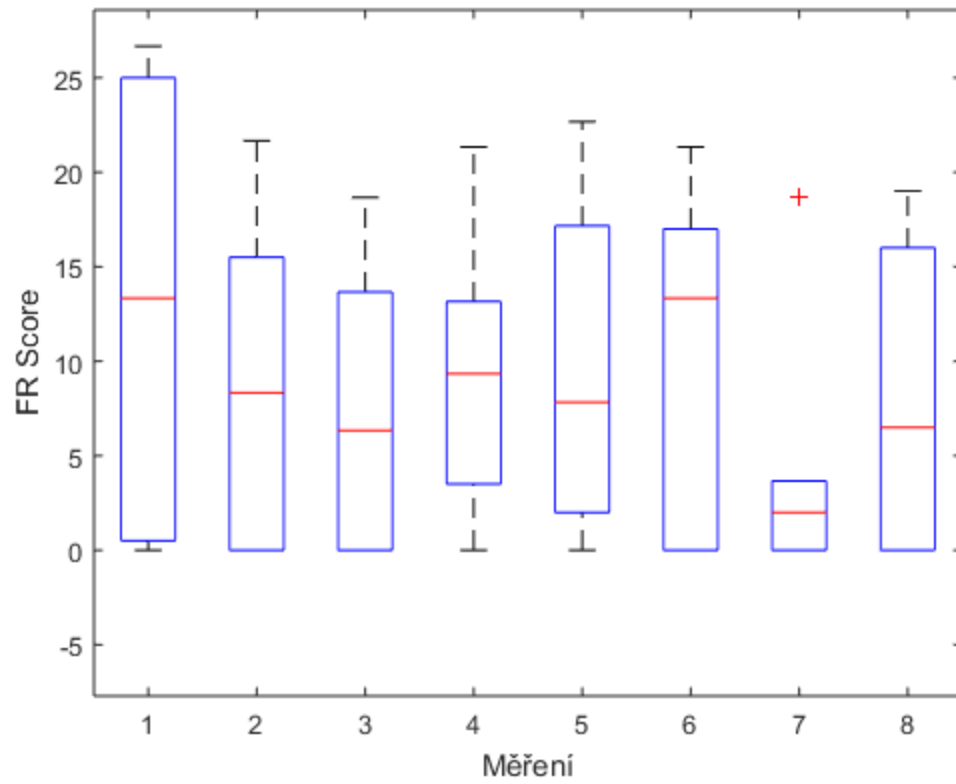
boxplot(Dat6)
xlabel('M##ení');
ylabel('FR Score');
saveas(gcf,[pwd, '\results\FR_boxplot'],'png')
figure

boxplot(DatAll)
xlabel('M##ení');
ylabel('NTLx Score');
saveas(gcf,[pwd, '\results\NTLx_boxplot'],'png')
figure
```









KW test

```
Grp=[ones(8,1);2*ones(8,1);3*ones(8,1);4*ones(8,1);5*ones(8,1);...
     6*ones(8,1);7*ones(8,1);8*ones(8,1)];

% MD Score
[p,tbl,stats] = kruskalwallis([Dat1(:,1);Dat1(:,2);Dat1(:,3);...
    Dat1(:,4);Dat1(:,5);Dat1(:,6);Dat1(:,7);Dat1(:,8)],Grp,'off')

c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\MD_post'],'png')
saveas(gcf,[pwd, '\results\MD_post'],'fig')

xlswrite('results.xlsx',tbl,'MD Score','A1')
xlswrite('results.xlsx','p','MD Score','A6')
xlswrite('results.xlsx',p,'MD Score','B6')
xlswrite('results.xlsx',c,'MD Score','A8')

% PD Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([Dat2(:,1);Dat2(:,2);Dat2(:,3);...
    Dat2(:,4);Dat2(:,5);Dat2(:,6);Dat2(:,7);Dat2(:,8)],Grp,'off')
```

```

figure
c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\PD_post'],'png')
saveas(gcf,[pwd, '\results\PD_post'],'fig')

xlswrite('results.xlsx', tbl, 'PD Score', 'A1')
xlswrite('results.xlsx', 'p', 'PD Score', 'A6')
xlswrite('results.xlsx', p, 'PD Score', 'B6')
xlswrite('results.xlsx', c, 'PD Score', 'A8')

% TD Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([Dat3(:,1);Dat3(:,2);Dat3(:,3);...
    Dat3(:,4);Dat3(:,5);Dat3(:,6);Dat3(:,7);Dat3(:,8)],Grp,'off')

figure
c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\TD_post'],'png')
saveas(gcf,[pwd, '\results\TD_post'],'fig')

xlswrite('results.xlsx', tbl, 'TD Score', 'A1')
xlswrite('results.xlsx', 'p', 'TD Score', 'A6')
xlswrite('results.xlsx', p, 'TD Score', 'B6')
xlswrite('results.xlsx', c, 'TD Score', 'A8')

% PF Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([Dat4(:,1);Dat4(:,2);Dat4(:,3);...
    Dat4(:,4);Dat4(:,5);Dat4(:,6);Dat4(:,7);Dat4(:,8)],Grp,'off')

figure
c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\PF_post'],'png')
saveas(gcf,[pwd, '\results\PF_post'],'fig')

xlswrite('results.xlsx', tbl, 'PF Score', 'A1')
xlswrite('results.xlsx', 'p', 'PF Score', 'A6')
xlswrite('results.xlsx', p, 'PF Score', 'B6')
xlswrite('results.xlsx', c, 'PF Score', 'A8')

% EF Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([Dat5(:,1);Dat5(:,2);Dat5(:,3);...
    Dat5(:,4);Dat5(:,5);Dat5(:,6);Dat5(:,7);Dat5(:,8)],Grp,'off')

figure
c=multcompare(stats,'CType','dunn-sidak')

```

```

saveas(gcf,[pwd, '\results\EF_post'],'png')
saveas(gcf,[pwd, '\results\EF_post'],'fig')

xlswrite('results.xlsx', tbl, 'EF Score', 'A1')
xlswrite('results.xlsx', 'p', 'EF Score', 'A6')
xlswrite('results.xlsx', p, 'EF Score', 'B6')
xlswrite('results.xlsx', c, 'EF Score', 'A8')

% FR Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([Dat6(:,1);Dat6(:,2);Dat6(:,3);...
    Dat6(:,4);Dat6(:,5);Dat6(:,6);Dat6(:,7);Dat6(:,8)],Grp,'off')

figure
c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\FR_post'],'png')
saveas(gcf,[pwd, '\results\FR_post'],'fig')

xlswrite('results.xlsx', tbl, 'FR Score', 'A1')
xlswrite('results.xlsx', 'p', 'FR Score', 'A6')
xlswrite('results.xlsx', p, 'FR Score', 'B6')
xlswrite('results.xlsx', c, 'FR Score', 'A8')

% NTLx Score
clear p tbl stats c;
[p,tbl,stats] = kruskalwallis([DatAll(:,1);DatAll(:,2);DatAll(:,3);...
    DatAll(:,4);DatAll(:,5);DatAll(:,6);DatAll(:,7);DatAll(:,8)],Grp,'off')

figure
c=multcompare(stats,'CType','dunn-sidak')

saveas(gcf,[pwd, '\results\NTLx_post'],'png')
saveas(gcf,[pwd, '\results\NTLx_post'],'fig')

xlswrite('results.xlsx', tbl, 'NTLx Score', 'A1')
xlswrite('results.xlsx', 'p', 'NTLx Score', 'A6')
xlswrite('results.xlsx', p, 'NTLx Score', 'B6')
xlswrite('results.xlsx', c, 'NTLx Score', 'A8')

p =

    0.1099

tbl =

    4x6 cell array

    Columns 1 through 5

```

```

'Source'      'SS'          'df'      'MS'          'Chi-sq'
'Groups'     [3.2256e+03] [ 7]      [460.8063]   [11.7266]
'Error'      [1.2178e+04] [49]      [248.5379]   []
'Total'      [ 15404]      [56]      []           []

```

Column 6

```

'Prob>Chi-sq'
[ 0.1099]
[]
[]

```

stats =

struct with fields:

```

gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [1x8 double]
sumt: 288

```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

c =

```

1.0000    2.0000   -38.4064   -12.5625    13.2814    0.9796
1.0000    3.0000   -39.5939   -13.7500    12.0939    0.9431
1.0000    4.0000   -28.2814    -2.4375    23.4064    1.0000
1.0000    5.0000   -44.8439   -19.0000     6.8439    0.4629
1.0000    6.0000   -44.1527   -17.4018     9.3492    0.7047
1.0000    7.0000   -43.1854   -15.2708    12.6437    0.9247
1.0000    8.0000   -56.4646   -24.8125     6.8396    0.3369
2.0000    3.0000   -27.0314    -1.1875    24.6564    1.0000
2.0000    4.0000   -15.7189    10.1250    35.9689    0.9991
2.0000    5.0000   -32.2814    -6.4375    19.4064    1.0000
2.0000    6.0000   -31.5902    -4.8393    21.9117    1.0000
2.0000    7.0000   -30.6229    -2.7083    25.2062    1.0000
2.0000    8.0000   -43.9021   -12.2500    19.4021    0.9993
3.0000    4.0000   -14.5314    11.3125    37.1564    0.9950
3.0000    5.0000   -31.0939    -5.2500    20.5939    1.0000
3.0000    6.0000   -30.4027    -3.6518    23.0992    1.0000
3.0000    7.0000   -29.4354    -1.5208    26.3937    1.0000
3.0000    8.0000   -42.7146   -11.0625    20.5896    0.9999
4.0000    5.0000   -42.4064   -16.5625     9.2814    0.7309
4.0000    6.0000   -41.7152   -14.9643    11.7867    0.9068
4.0000    7.0000   -40.7479   -12.8333    15.0812    0.9901
4.0000    8.0000   -54.0271   -22.3750     9.2771    0.5432
5.0000    6.0000   -25.1527     1.5982    28.3492    1.0000
5.0000    7.0000   -24.1854     3.7292    31.6437    1.0000
5.0000    8.0000   -37.4646    -5.8125    25.8396    1.0000

```

6.0000	7.0000	-26.6254	2.1310	30.8873	1.0000
6.0000	8.0000	-39.8077	-7.4107	24.9863	1.0000
7.0000	8.0000	-42.9059	-9.5417	23.8226	1.0000

p =

0.8231

tbl =

4x6 cell array

'Source'	'SS'	'df'	'MS'	'Chi-sq'	
'Prob>Chi-sq'					
'Groups'	[989.9881]	[7]	[141.4269]	[3.6132]	[
					0.8231]
'Error'	[1.4354e+04]	[49]	[292.9288]	[]	
[]					
'Total'	[1.5344e+04]	[56]	[]	[]	
[]					

stats =

struct with fields:

```

gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [1x8 double]
sumt: 1014

```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

c =

1.0000	2.0000	-17.7931	8.0000	33.7931	1.0000
1.0000	3.0000	-18.7306	7.0625	32.8556	1.0000
1.0000	4.0000	-21.2306	4.5625	30.3556	1.0000
1.0000	5.0000	-23.8556	1.9375	27.7306	1.0000
1.0000	6.0000	-29.7966	-3.0982	23.6001	1.0000
1.0000	7.0000	-20.7555	7.1042	34.9639	1.0000
1.0000	8.0000	-20.2774	11.3125	42.9024	0.9998
2.0000	3.0000	-26.7306	-0.9375	24.8556	1.0000
2.0000	4.0000	-29.2306	-3.4375	22.3556	1.0000
2.0000	5.0000	-31.8556	-6.0625	19.7306	1.0000
2.0000	6.0000	-37.7966	-11.0982	15.6001	0.9977
2.0000	7.0000	-28.7555	-0.8958	26.9639	1.0000
2.0000	8.0000	-28.2774	3.3125	34.9024	1.0000
3.0000	4.0000	-28.2931	-2.5000	23.2931	1.0000
3.0000	5.0000	-30.9181	-5.1250	20.6681	1.0000

```

3.0000    6.0000   -36.8591   -10.1607    16.5376    0.9995
3.0000    7.0000   -27.8180    0.0417    27.9014    1.0000
3.0000    8.0000   -27.3399    4.2500    35.8399    1.0000
4.0000    5.0000   -28.4181   -2.6250    23.1681    1.0000
4.0000    6.0000   -34.3591   -7.6607    19.0376    1.0000
4.0000    7.0000   -25.3180    2.5417    30.4014    1.0000
4.0000    8.0000   -24.8399    6.7500    38.3399    1.0000
5.0000    6.0000   -31.7341   -5.0357    21.6626    1.0000
5.0000    7.0000   -22.6930    5.1667    33.0264    1.0000
5.0000    8.0000   -22.2149    9.3750    40.9649    1.0000
6.0000    7.0000   -18.4975   10.2024    38.9022    0.9998
6.0000    8.0000   -17.9226   14.4107    46.7440    0.9935
7.0000    8.0000   -29.0904    4.2083    37.5070    1.0000

```

p =

```
0.2816
```

tbl =

```
4x6 cell array
```

```

'Source'    'SS'          'df'    'MS'          'Chi-sq'
'Prob>Chi-sq'
'Groups'    [2.3612e+03] [ 7]    [337.3102]    [8.6138]    [
0.2816]
'Error'     [1.2989e+04] [49]    [265.0883]    []
[]
'Total'     [1.5351e+04] [56]          []    []
[]

```

stats =

```
struct with fields:
```

```

gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [1x8 double]
sumt: 930

```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

c =

```

1.0000    2.0000   -12.5489    13.2500    39.0489    0.9611
1.0000    3.0000   -21.1114    4.6875    30.4864    1.0000
1.0000    4.0000   -28.9239   -3.1250    22.6739    1.0000
1.0000    5.0000   -19.4864    6.3125    32.1114    1.0000
1.0000    6.0000   -23.7134    2.9911    29.6955    1.0000

```

```

1.0000    7.0000   -33.4702   -5.6042   22.2619    1.0000
1.0000    8.0000   -41.2846   -9.6875   21.9096    1.0000
2.0000    3.0000   -34.3614   -8.5625   17.2364    1.0000
2.0000    4.0000   -42.1739  -16.3750    9.4239    0.7472
2.0000    5.0000   -32.7364   -6.9375   18.8614    1.0000
2.0000    6.0000   -36.9634  -10.2589   16.4455    0.9994
2.0000    7.0000   -46.7202  -18.8542    9.0119    0.6310
2.0000    8.0000   -54.5346  -22.9375    8.6596    0.4887
3.0000    4.0000   -33.6114   -7.8125   17.9864    1.0000
3.0000    5.0000   -24.1739    1.6250   27.4239    1.0000
3.0000    6.0000   -28.4009   -1.6964   25.0080    1.0000
3.0000    7.0000   -38.1577  -10.2917   17.5744    0.9997
3.0000    8.0000   -45.9721  -14.3750   17.2221    0.9914
4.0000    5.0000   -16.3614    9.4375   35.2364    0.9997
4.0000    6.0000   -20.5884    6.1161   32.8205    1.0000
4.0000    7.0000   -30.3452   -2.4792   25.3869    1.0000
4.0000    8.0000   -38.1596   -6.5625   25.0346    1.0000
5.0000    6.0000   -30.0259   -3.3214   23.3830    1.0000
5.0000    7.0000   -39.7827  -11.9167   15.9494    0.9965
5.0000    8.0000   -47.5971  -16.0000   15.5971    0.9668
6.0000    7.0000   -37.3017   -8.5952   20.1112    1.0000
6.0000    8.0000   -45.0193  -12.6786   19.6621    0.9991
7.0000    8.0000   -37.3896   -4.0833   29.2230    1.0000

```

p =

0.6766

tbl =

4x6 cell array

```

'Source'    'SS'          'df'    'MS'          'Chi-sq'
'Prob>Chi-sq'
'Groups'    [1.3369e+03]  [ 7]    [190.9817]    [4.8637]  [
0.6766]
'Error'     [1.4056e+04]  [49]    [286.8496]    []
[]
'Total'     [1.5393e+04]  [56]          []            []
[]

```

stats =

struct with fields:

```

gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [31.3750 19.1875 32.3750 27.4375 34 29.1429 25.6667 35]
sumt: 426

```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

c =

1.0000	2.0000	-13.6467	12.1875	38.0217	0.9860
1.0000	3.0000	-26.8342	-1.0000	24.8342	1.0000
1.0000	4.0000	-21.8967	3.9375	29.7717	1.0000
1.0000	5.0000	-28.4592	-2.6250	23.2092	1.0000
1.0000	6.0000	-24.5088	2.2321	28.9731	1.0000
1.0000	7.0000	-22.1958	5.7083	33.6125	1.0000
1.0000	8.0000	-35.2653	-3.6250	28.0153	1.0000
2.0000	3.0000	-39.0217	-13.1875	12.6467	0.9637
2.0000	4.0000	-34.0842	-8.2500	17.5842	1.0000
2.0000	5.0000	-40.6467	-14.8125	11.0217	0.8837
2.0000	6.0000	-36.6963	-9.9554	16.7856	0.9996
2.0000	7.0000	-34.3833	-6.4792	21.4250	1.0000
2.0000	8.0000	-47.4528	-15.8125	15.8278	0.9715
3.0000	4.0000	-20.8967	4.9375	30.7717	1.0000
3.0000	5.0000	-27.4592	-1.6250	24.2092	1.0000
3.0000	6.0000	-23.5088	3.2321	29.9731	1.0000
3.0000	7.0000	-21.1958	6.7083	34.6125	1.0000
3.0000	8.0000	-34.2653	-2.6250	29.0153	1.0000
4.0000	5.0000	-32.3967	-6.5625	19.2717	1.0000
4.0000	6.0000	-28.4463	-1.7054	25.0356	1.0000
4.0000	7.0000	-26.1333	1.7708	29.6750	1.0000
4.0000	8.0000	-39.2028	-7.5625	24.0778	1.0000
5.0000	6.0000	-21.8838	4.8571	31.5981	1.0000
5.0000	7.0000	-19.5708	8.3333	36.2375	1.0000
5.0000	8.0000	-32.6403	-1.0000	30.6403	1.0000
6.0000	7.0000	-25.2695	3.4762	32.2218	1.0000
6.0000	8.0000	-38.2420	-5.8571	26.5278	1.0000
7.0000	8.0000	-42.6852	-9.3333	24.0185	1.0000

p =

0.6763

tbl =

4x6 cell array

'Source'	'SS'	'df'	'MS'	'Chi-sq'	
'Prob>Chi-sq'					
'Groups'	[1.3389e+03]	[7]	[191.2659]	[4.8664]	[
0.6763]					
'Error'	[1.4068e+04]	[49]	[287.1049]	[]	
[]					
'Total'	[15407]	[56]	[]	[]	
[]					

stats =

struct with fields:

```
gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [23.1250 21.1875 32 34.5000 33.6250 26.6429 31.7500
30.1250]
sumt: 252
```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

c =

1.0000	2.0000	-23.9089	1.9375	27.7839	1.0000
1.0000	3.0000	-34.7214	-8.8750	16.9714	0.9999
1.0000	4.0000	-37.2214	-11.3750	14.4714	0.9946
1.0000	5.0000	-36.3464	-10.5000	15.3464	0.9984
1.0000	6.0000	-30.2714	-3.5179	23.2357	1.0000
1.0000	7.0000	-36.5423	-8.6250	19.2923	1.0000
1.0000	8.0000	-38.6552	-7.0000	24.6552	1.0000
2.0000	3.0000	-36.6589	-10.8125	15.0339	0.9975
2.0000	4.0000	-39.1589	-13.3125	12.5339	0.9598
2.0000	5.0000	-38.2839	-12.4375	13.4089	0.9820
2.0000	6.0000	-32.2089	-5.4554	21.2982	1.0000
2.0000	7.0000	-38.4798	-10.5625	17.3548	0.9995
2.0000	8.0000	-40.5927	-8.9375	22.7177	1.0000
3.0000	4.0000	-28.3464	-2.5000	23.3464	1.0000
3.0000	5.0000	-27.4714	-1.6250	24.2214	1.0000
3.0000	6.0000	-21.3964	5.3571	32.1107	1.0000
3.0000	7.0000	-27.6673	0.2500	28.1673	1.0000
3.0000	8.0000	-29.7802	1.8750	33.5302	1.0000
4.0000	5.0000	-24.9714	0.8750	26.7214	1.0000
4.0000	6.0000	-18.8964	7.8571	34.6107	1.0000
4.0000	7.0000	-25.1673	2.7500	30.6673	1.0000
4.0000	8.0000	-27.2802	4.3750	36.0302	1.0000
5.0000	6.0000	-19.7714	6.9821	33.7357	1.0000
5.0000	7.0000	-26.0423	1.8750	29.7923	1.0000
5.0000	8.0000	-28.1552	3.5000	35.1552	1.0000
6.0000	7.0000	-33.8663	-5.1071	23.6521	1.0000
6.0000	8.0000	-35.8823	-3.4821	28.9180	1.0000
7.0000	8.0000	-31.7425	1.6250	34.9925	1.0000

p =

0.8967

tbl =

4x6 cell array

```

      'Source'      'SS'          'df'      'MS'          'Chi-sq'
'Prob>Chi-sq'
  'Groups'      [ 761.0818]      [ 7]      [108.7260]      [2.8707]      [
0.8967]
  'Error'       [1.4085e+04]      [49]      [287.4575]          []
      []
  'Total'       [1.4847e+04]      [56]          []          []
      []

```

```
stats =
```

```
struct with fields:
```

```

      gnames: {8x1 cell}
           n: [8 8 8 8 8 7 6 4]
      source: 'kruskalwallis'
      meanranks: [35.7500 28.4375 26.2500 29.6875 30.6875 29.7857
22.3333 26]
           sumt: 6978

```

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

```
c =
```

```

1.0000    2.0000   -18.0594    7.3125    32.6844    1.0000
1.0000    3.0000   -15.8719    9.5000    34.8719    0.9996
1.0000    4.0000   -19.3094    6.0625    31.4344    1.0000
1.0000    5.0000   -20.3094    5.0625    30.4344    1.0000
1.0000    6.0000   -20.2981    5.9643    32.2267    1.0000
1.0000    7.0000   -13.9881   13.4167    40.8214    0.9777
1.0000    8.0000   -21.3241    9.7500    40.8241    1.0000
2.0000    3.0000   -23.1844    2.1875    27.5594    1.0000
2.0000    4.0000   -26.6219   -1.2500    24.1219    1.0000
2.0000    5.0000   -27.6219   -2.2500    23.1219    1.0000
2.0000    6.0000   -27.6106   -1.3482    24.9142    1.0000
2.0000    7.0000   -21.3006    6.1042    33.5089    1.0000
2.0000    8.0000   -28.6366    2.4375    33.5116    1.0000
3.0000    4.0000   -28.8094   -3.4375    21.9344    1.0000
3.0000    5.0000   -29.8094   -4.4375    20.9344    1.0000
3.0000    6.0000   -29.7981   -3.5357    22.7267    1.0000
3.0000    7.0000   -23.4881    3.9167    31.3214    1.0000
3.0000    8.0000   -30.8241    0.2500    31.3241    1.0000
4.0000    5.0000   -26.3719   -1.0000    24.3719    1.0000
4.0000    6.0000   -26.3606   -0.0982    26.1642    1.0000
4.0000    7.0000   -20.0506    7.3542    34.7589    1.0000
4.0000    8.0000   -27.3866    3.6875    34.7616    1.0000
5.0000    6.0000   -25.3606    0.9018    27.1642    1.0000
5.0000    7.0000   -19.0506    8.3542    35.7589    1.0000
5.0000    8.0000   -26.3866    4.6875    35.7616    1.0000
6.0000    7.0000   -20.7788    7.4524    35.6836    1.0000
6.0000    8.0000   -28.0196    3.7857    35.5911    1.0000

```

7.0000 8.0000 -36.4216 -3.6667 29.0883 1.0000

Warning: The requested print was not completed because the figure is invalid.
This may be happening because the figure was closed before the print could complete.

p =

0.5788

tbl =

4x6 cell array

'Source'	'SS'	'df'	'MS'	'Chi-sq'	
'Prob>Chi-sq'					
'Groups'	[1.5615e+03]	[7]	[223.0653]	[5.6697]	[
0.5788]					
'Error'	[1.3861e+04]	[49]	[282.8784]	[]	
[]					
'Total'	[1.5423e+04]	[56]	[]	[]	
[]					

stats =

struct with fields:

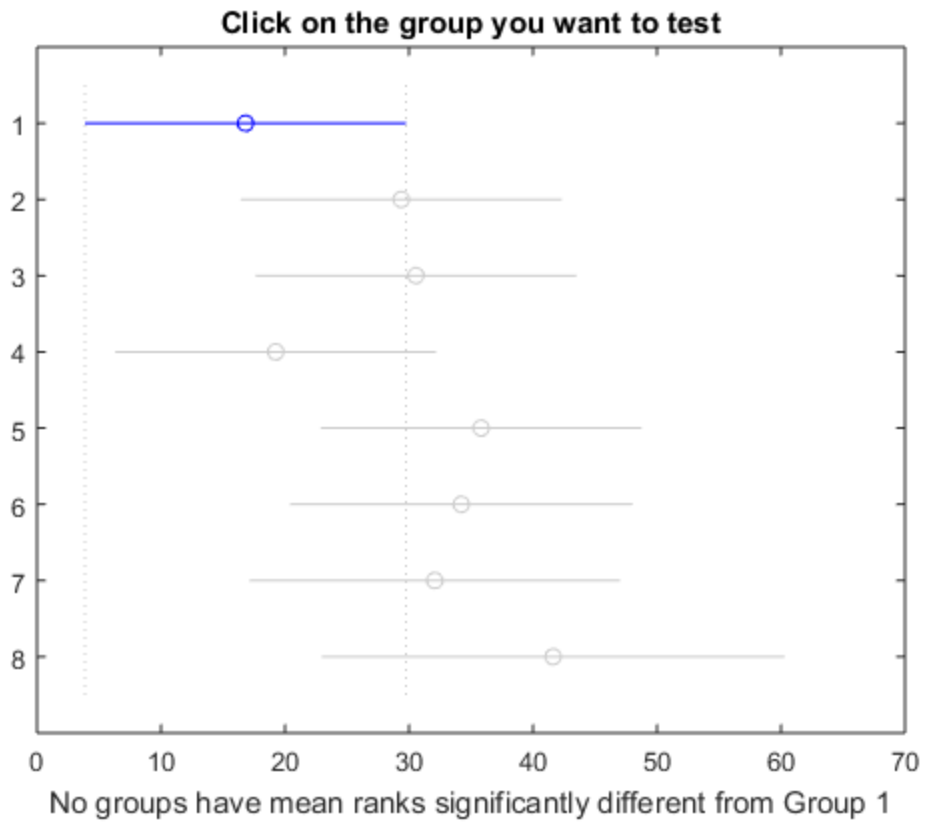
gnames: {8x1 cell}
n: [8 8 8 8 8 7 6 4]
source: 'kruskalwallis'
meanranks: [1x8 double]
sumt: 66

Note: Intervals can be used for testing but are not simultaneous confidence intervals.

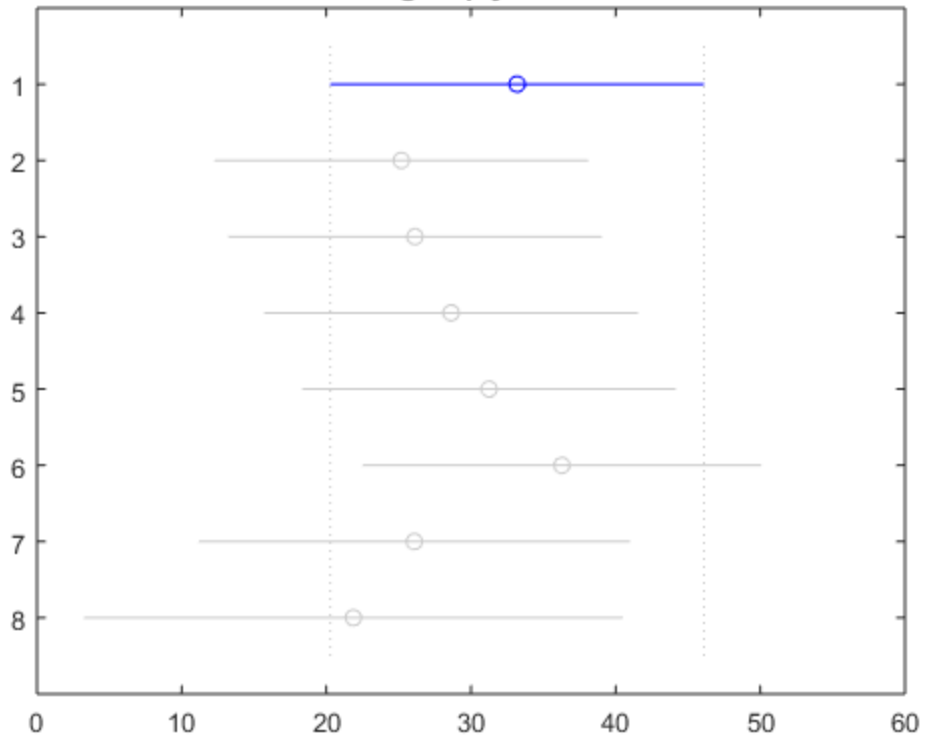
c =

1.0000	2.0000	-13.7969	12.0625	37.9219	0.9880
1.0000	3.0000	-23.0469	2.8125	28.6719	1.0000
1.0000	4.0000	-24.7344	1.1250	26.9844	1.0000
1.0000	5.0000	-30.3594	-4.5000	21.3594	1.0000
1.0000	6.0000	-27.6152	-0.8482	25.9188	1.0000
1.0000	7.0000	-24.0772	3.8542	31.7855	1.0000
1.0000	8.0000	-38.4836	-6.8125	24.8586	1.0000
2.0000	3.0000	-35.1094	-9.2500	16.6094	0.9998
2.0000	4.0000	-36.7969	-10.9375	14.9219	0.9970
2.0000	5.0000	-42.4219	-16.5625	9.2969	0.7319
2.0000	6.0000	-39.6777	-12.9107	13.8563	0.9815
2.0000	7.0000	-36.1397	-8.2083	19.7230	1.0000

2.0000	8.0000	-50.5461	-18.8750	12.7961	0.8396
3.0000	4.0000	-27.5469	-1.6875	24.1719	1.0000
3.0000	5.0000	-33.1719	-7.3125	18.5469	1.0000
3.0000	6.0000	-30.4277	-3.6607	23.1063	1.0000
3.0000	7.0000	-26.8897	1.0417	28.9730	1.0000
3.0000	8.0000	-41.2961	-9.6250	22.0461	1.0000
4.0000	5.0000	-31.4844	-5.6250	20.2344	1.0000
4.0000	6.0000	-28.7402	-1.9732	24.7938	1.0000
4.0000	7.0000	-25.2022	2.7292	30.6605	1.0000
4.0000	8.0000	-39.6086	-7.9375	23.7336	1.0000
5.0000	6.0000	-23.1152	3.6518	30.4188	1.0000
5.0000	7.0000	-19.5772	8.3542	36.2855	1.0000
5.0000	8.0000	-33.9836	-2.3125	29.3586	1.0000
6.0000	7.0000	-24.0713	4.7024	33.4760	1.0000
6.0000	8.0000	-38.3807	-5.9643	26.4522	1.0000
7.0000	8.0000	-44.0510	-10.6667	22.7176	1.0000

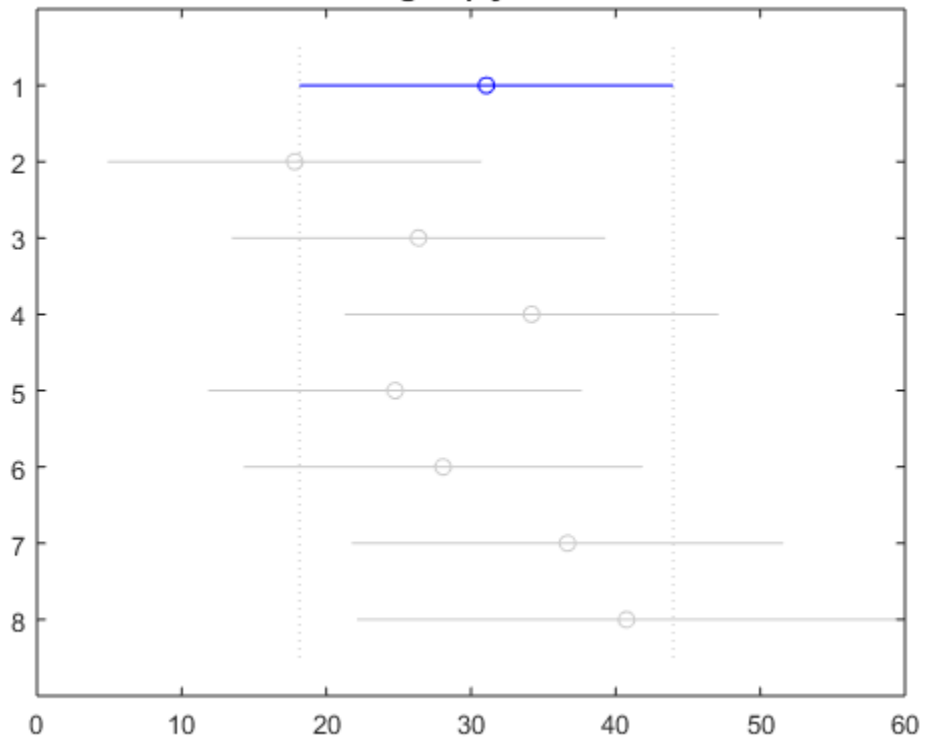


Click on the group you want to test

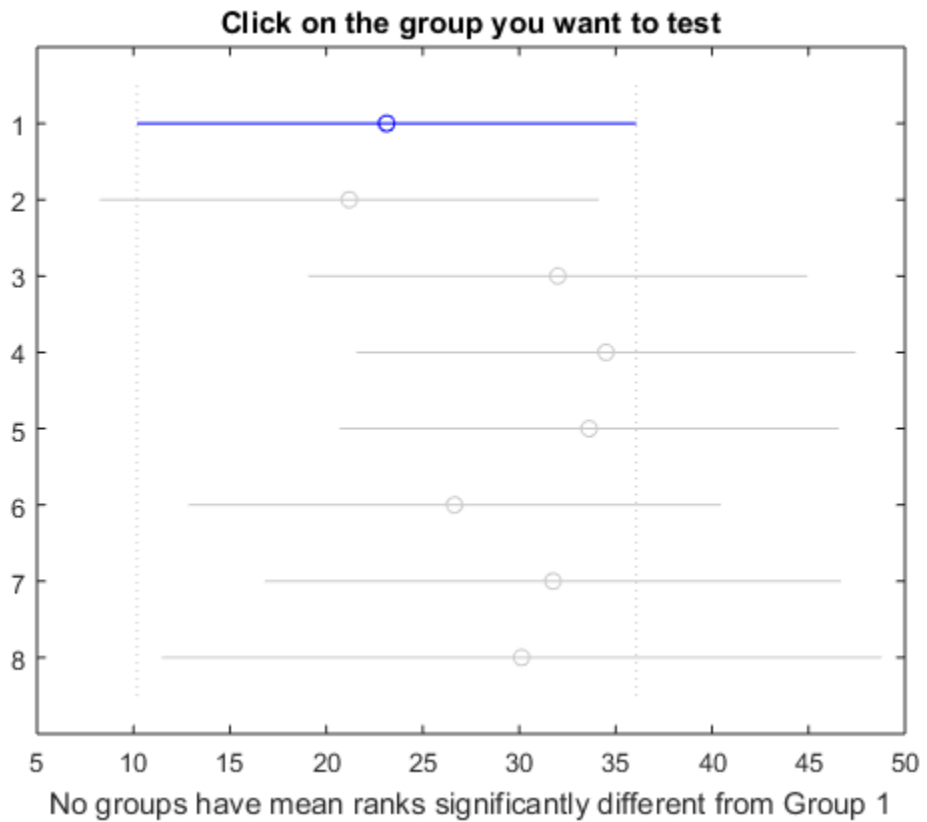
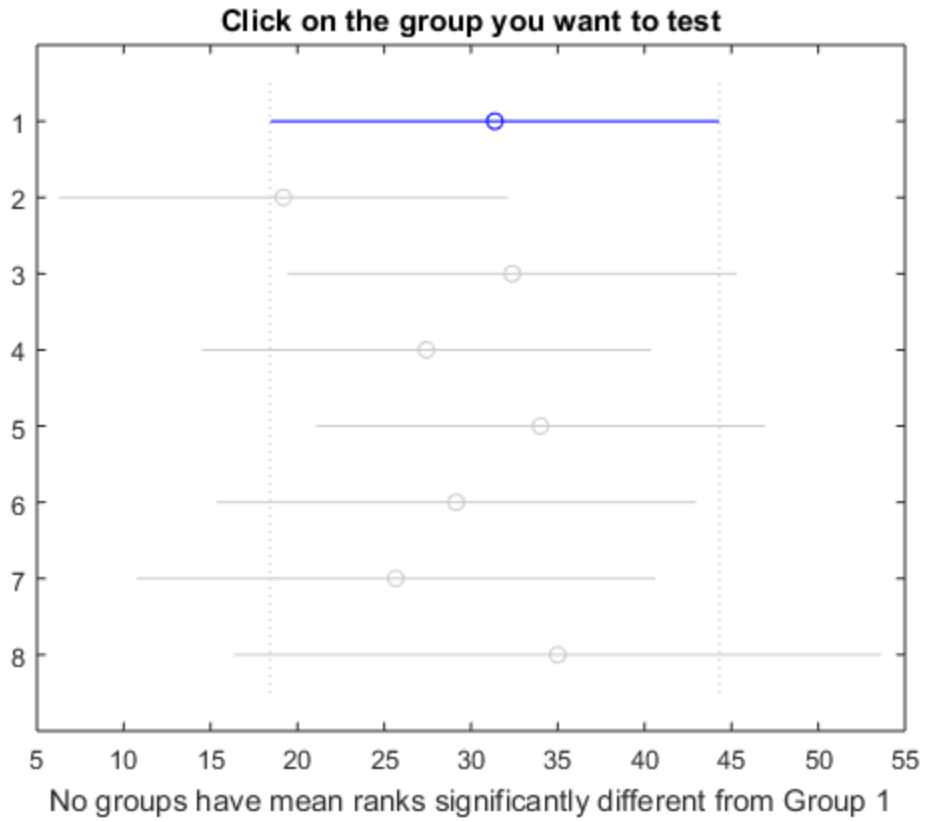


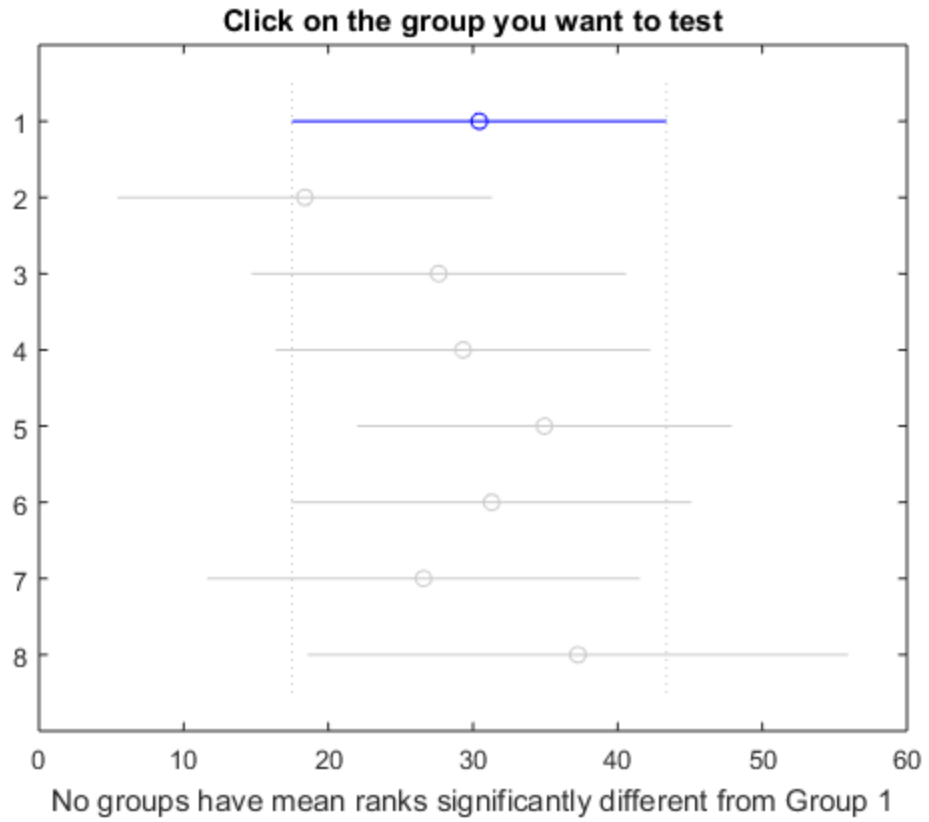
No groups have mean ranks significantly different from Group 1

Click on the group you want to test



No groups have mean ranks significantly different from Group 1





Published with MATLAB® R2017a