

Ouverture d'une fenêtre de dialogue Windows sous matlab

```
function simplemenu ()
% permet la selection d'un fichier de données de type txt à partir d'une
% fenetre de dialogue windows. La lecture et traitement se font sur un
% seul fichier à la fois. L'analyse est effectuée dans des sous fonctions.

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%                               partie principale                               %
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[fname,pname] = uigetfile('*.txt','Ouverture des fichiers');

fullname = [ pname fname ]

allinfo = analyse(fullname); %appel à une sous fonction

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%                               les sous fonctions                               %
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function file = analyse(name)

file.data = readfile(name); %lecture et
                           %on ajoute un champ dans la structure

figure
plot(file.data)           %affichage

file.moys = mean(file.data); %mean par col
file.maxs = max(file.data);  %max par col

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function donnees = readfile(filename)

id = fopen(filename, 'rt');
donnees = fscanf(id, '%f', [3,inf]);
fclose(id);
```