If you need to download more tickers data, you can add more columns in the GUI. You just need to add and edit some lines in the “downloadStocksDataGUI.m” file.

1. Increase the third value of the Position vector every time you add a new column in the GUI (line 86).

% Tickers panel

handles.uipanelTickers=uipanel(gcf,'Tag', 'uipanelTickers','Units','pixels',...

'Position',[0 20 1080 540],'BackgroundColor',[0 0 .2], 'BorderType', 'none');

1. Add the uicontrol code to generate the new check boxes and edit boxes for the new GUI column. You can start adding the new code at line 1011.

% % % %% 121 -140

height=530;

dif=25;

left1=910; %Increase this value by +150 units for each new GUI column respectly to the last

left2= left1+40;

Change the ID for each edit box and check box added.

% Ticker 121

height=height-dif;

handles.checkBoxTicker121=uicontrol('Style','checkbox','Tag', 'checkBoxTicker121','Parent',handles.uipanelTickers,'Units','pixels',...

'Position', [left1 height 40 20],'Callback', @checkBoxTicker121\_Callback, 'BackgroundColor', [0 0 .2],'ForegroundColor',[0 1 1],'String', '121');

handles.edit121=uicontrol('Style','edit','Tag', 'edit121','Parent',handles.uipanelTickers,'Units','pixels','BackgroundColor', [.83 .82 .78],...

'Position', [left2 height 100 20],'Callback', @edit121\_Callback);

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% Ticker 140

height=height-dif;

handles.checkBoxTicker140=uicontrol('Style','checkbox','Tag', 'checkBoxTicker140','Parent',handles.uipanelTickers,'Units','pixels',...

'Position', [left1 height 40 20],'Callback', @checkBoxTicker140\_Callback,'BackgroundColor', [0 0 .2],'ForegroundColor',[0 1 1],'String', '140');

handles.edit140=uicontrol('Style','edit','Tag', 'edit140','Parent',handles.uipanelTickers,'Units','pixels','BackgroundColor', [.83 .82 .78],...

'Position', [left2 height 100 20],'Callback', @edit140\_Callback);

%Button select column 121-140

height=height-dif;

The ID is the same as the first ticker box of the GUI column

handles.pushbuttonSelectColumn121=uicontrol('Style','pushbutton','Tag', 'pushbuttonSelectColumn121','Parent',handles.uipanelTickers,'Units','pixels',...

'BackgroundColor', [.83 .82 .78],'Position', [left1 height 136 20],'Callback', @pushbuttonSelectColumn121\_Callback,...

'String', 'Select/Unselect column','UserData', 1);

1. Change highlighted value to the quantity of ticker boxes in the GUI

This code starts at line 1013

% import selection and stored tickers (loop)

tikersSelection=table2cell(readtable('tickersSelection.csv'));

% % Activa los botones utilizados

for i=1:140

%Checa si cada casilla va activada o no

if (cell2mat(tikersSelection(i,1))==1)==1

activar=findobj('Tag',['checkBoxTicker' num2str(i)]);

set(activar,'Value',1);

end

% Write ticker name on each box

emisora=findobj('Tag',['edit' num2str(i)]);

set(emisora,'String',tikersSelection(i,2));

end

This code starts at line 1050

tickers=fopen('tickers.txt','wt'); %Open the txt file with all the stored tickers

for i=1:140 %This loop store all the tickers selected in the UI

evaluar=findobj('Tag',['checkBoxTicker' num2str(i)]);

if get(evaluar,'Value')==1 %Check if every ticker is selected

try

escribir=findobj('Tag',['edit' num2str(i)]);

fprintf(tickers,'%s\n',char(get(escribir, 'String')));%Write the ticker name into tickers.txt

end

end

end

fprintf(tickers,'%s\n','');

fclose(tickers);

% Update tickersSelection.csv with the last data added

tickersSelection=table2cell(readtable('tickersSelection.csv'));

for i=1:140

try

checkBoxTicker=findobj('Tag',['checkBoxTicker' num2str(i)]);

tickersSelection(i,1)=num2cell(get(checkBoxTicker,'Value'));

edit=findobj('Tag',['edit' num2str(i)]);

tickersSelection(i,2)=cellstr(get(edit,'String'));

catch

end

end

1. Add this code for every new column in the GUI. Add the new code at line 1240.

% Select column push button Tickers 121-140

function pushbuttonSelectColumn121\_Callback(hObject, eventdata, handles)

if hObject.UserData==1

for i=121:140 #From the first ID to the last ID of the GUI column boxes.

check=findobj('Tag',['checkBoxTicker' num2str(i)]);

set(check,'Value',0);

end

hObject.UserData=0;

else

for i=121:140 #From the first ID to the last ID of the GUI column boxes.

check=findobj('Tag',['checkBoxTicker' num2str(i)]);

set(check,'Value',1);

end

hObject.UserData=1;

end

1. Add the Callbacks functions of the check boxes and edit boxes. Change the highlighted ID number for each box. Add the new code at line 1617.

%% 121-140

% Ticker 121 Callback

function checkBoxTicker121\_Callback(hObject, eventdata, handles)

function edit121\_Callback(hObject, eventdata, handles)

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% Ticker 140 Callback

function checkBoxTicker140\_Callback(hObject, eventdata, handles)

function edit140\_Callback(hObject, eventdata, handles)