

```

clear all
close all

filename = '\Photos Vidéos\PICT0010.MOV';
full_video = VideoReader(filename);

t_beg = 17;
t_end = 18;

vid_Height = full_video.Height;
vid_Width = full_video.Width;
vid_Rate = full_video.FrameRate;
x_lim = [325 425];
y_lim = [50 475];

ind_beg = round(t_beg * vid_Rate);
ind_end = round(t_end * vid_Rate)+1;
t = 0:1/vid_Rate:(ind_end-ind_beg)/vid_Rate;

s = struct('cdata',zeros(vid_Height,vid_Width,3,'uint8'),...
    'colormap',[]);
convfact = 22.2; % distance en centimètre entre les graduation 450 et 50
k = 1;
while hasFrame(full_video)
    s(k).cdata = readFrame(full_video);
    k = k+1;
end

for i = ind_beg:ind_end
    k = i-ind_beg+1;
    im = s(i).cdata;
    hf(k) = figure(k);
    hold on
        axis tight
        axis ij
        axis equal
        axis ([x_lim y_lim])
        image(im)
        if k == 1
            [x_orig,y_orig,~] = ginput(1); %cliquer sur 450
            [x_base,y_base,~] = ginput(1); % cliquer sur 50
            [x(k),y(k),~] = ginput(1);
            plot(x_orig,y_orig,'b+')
            plot(x_base,y_base,'g+')
            plot(x(k),y(k),'r+')
        else
            [x(k),y(k),~] = ginput(1);
            plot(x(k),y(k),'r+')
        end
    end

    hold off

end

d = ((y-y_base)*22.2)/(y_orig-y_base);
plot(t,d,'ko')

% hf_1 = figure(1);

```

```
% hold on
% subplot(1,2,1)
%     hold on
%         axis ij
%         axis tight
%         image(s(ind_beg).cdata)
%     hold off
% subplot(1,2,2)
%     hold on
%         axis ij
%         axis tight
%         image(s(ind_end).cdata)
%     hold off
% hold off
```