**视频处理：**

P.S: 登录en.savefrom.net， 输入下载视频的URL路径进行视频下载

把视频的每一帧保存为图片：

fileName = ' C:\\Users\\Dell\\Desktop\\pic\\vi\\hy.mp4' ; %读取视频函数

obj = VideoReader(fileName);

numFrames = obj.NumberOfFrames;% 帧的总数

m=obj.Height;%行

n=obj.Width;%列

for k = 1 : numFrames

im = read(obj, k);%读取第k帧，存入im中

imwrite(im, [' C:\\Users\\Dell\\Desktop\\pic\\vi',num2str(k),'.bmp'], 'bmp');%把im存储成图片，并且存储的文件名根据序号改变

end

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%读取一帧视频并显示

frame = read(obj, 4);

figure;imshow(frame);

%播放视频函数

implay(fileName);

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注：要选取某一些固定位置的帧图，修改上述红绿配色循环条件。

For k=20:30; %就是选取序号为20-30的帧图

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Num=3;

imgFolder = 'C:\Users\Dell\Desktop\pict';

for k = 1 : Num

imgName=[num2str(k), '.bmp'];

X= imread(fullfile(imgFolder,imgName)); %读入图像

Y = imresize(X, [480 640]);

BW = im2bw(Y,0.5);

s=[num2str(k),'.txt'];

filename=['C:\\Users\\Dell\\Desktop\\pict\\pp23\_bw\\',s];

fid=fopen(filename,'wb') ;

for i=1: 480

for j=1: 640

fprintf(fid,"%d",BW(i,j));

end

fprintf(fid,"\n")

end

fclose(fid);

end

**图片处理：**

把图片处理成二值图 （这里设置的大小是640 \* 480）

imgFolder = 'C:\Users\Dell\Desktop\pict'; %指定路径

imgName='p1.bmp';

X= imread(fullfile(imgFolder,imgName)); %读入图像

figure, imshow(X) %显示读取进来的图片

Y = imresize(X, [480 640]);

BW = im2bw(Y,0.5);

figure, imshow(BW) %显示处理完的二值图

%把二值图输出为txt

filename="C:\\Users\\Dell\\Desktop\\pict\\d.txt";

fid=fopen(filename,'wb') ;

for i=1: 480

for j=1: 640

fprintf(fid,"%d",BW(i,j));

end

fprintf(fid,"\n")

end

fclose(fid);

imgFolder = 'C:\Users\Dell\Desktop\pict\pp23'; %指定路径

imgName='1.bmp';

X= imread(fullfile(imgFolder,imgName)); %读入图像

figure, imshow(X) %显示读取进来的图片

Y = imresize(X, [480 640]);

BW = im2bw(Y,0.5);

figure, imshow(BW) %显示处理完的二值图

%把二值图输出为txt

filename="C:\\Users\\Dell\\Desktop\\pict\\ pp23\_bw\\d.txt";

fid=fopen(filename,'wb') ;

for i=1: 480

for j=1: 640

fprintf(fid,"%d",BW(i,j));

end

fprintf(fid,"\n")

end

fclose(fid);