

```

function [r] = search_bing( word1,word2,word3,keyword )

x='%';
b=strcat (word1,x,word2,x,word3);

a=char(b);
disp(a);
urlp=['https://www.bing.com/search?q=' a];

txt=urlread(urlp);

urlwrite(urlp, 'tst2.html');
all=regexp(txt, 'http');

taj=regexp(txt, '');
for i=2:numel(all)

    pos(i)=all(i);

    k=1;
    while taj(k)<pos(i)
        k=k+1;
    end

    brik(i)=taj(k)-1;

end

work=0; % un compteur pour les workables links in the first search
for i=2:numel(brik)
    try
        xo=regexp(txt(all(i):brik(i)), '');
        work1(i)=i;
        work=work+1;
    catch
        disp('sthg wrong in the link');disp(i);
        hh(i)=i;
    end
    %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 1st search
    Cico {i,:}= txt(all(i):brik(i)-numel(xo));

    frita=regexp(txt(all(i):brik(i)-numel(xo)), '/');

    Cicob {i,:}= txt(all(i):brik(i)-numel(xo));

    sokol=regexp(Cicob {i,:}, ';');
    if numel(sokol)>=1
        Cicobx {i,:}= txt(all(i):brik(i)-numel(xo)-sokol(1)-1);
    else
        Cicobx {i,:}=Cicob {i,:};
    end
end

Cico {1,:}=Cico {2,:};
Cicob {1,:}=Cicob {2,:};
Cicobx {1,:}=Cicobx {2,:};

s=0;
s1=0;
for k=1:numel(Cicobx)
    try
        bikopa=webread(Cicobx {k,:});
        s1=s1+1;
        sokobb=regexp(bikopa,keyword);
        appolo(k)=numel(sokobb);

        Cicobx_sort {k,:}=Cicobx {k,:};

        %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% looking 4 names and adresses
        catch
            disp('the url number');disp(k);disp('doesnt work');
            popm(k)=k;
            s=s+1;
        end
end

```

```

disp('functional urls');disp(s1);

Cicoupt_1st_ghorbel = sorti_urls(Cicobx_sort);

fidop_1st = fopen('1st_links_list_by_Bing.txt', 'w');
fprintf(fidop_1st, '%s\n', Cicoupt_1st_ghorbel{:});
fclose(fidop_1st);

%%%% appolo sans 0
p=1;
disp(appolo);
gg=0;

for i=1:numel(appolo)
    if appolo(i)==0
        gg=gg+1;
    end
end

if gg==numel(appolo)
    test=[0];
    dim=0;
else
    for i=1:numel(appolo)
        if appolo(i)~=0
            test(p)=appolo(i);
            p=p+1;
        end
    end
    dim=numel(test);
end

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 2nd search
sole=0;
for i=1:numel(popm)
    if popm(i)>0

        ff=char(Cicobx{i,:});

        pikas=regexp(ff,'\');

        if numel(pikas)>=1
            Cicobxx{i,:}=ff(1:pikas(1)-1);
        end
        try
            bikopal= webread(Cicobxx{i,:});
            sokobb1=regexp(bikopal,keyword);
            appolo1(i)=numel(sokobb1);
            Cicobxx_2nd{i,:}=Cicobxx{i,:};
        catch
            end
        disp('the second sets of url');disp(i);
        sole=sole+1;

        compteur(i)=i;
    end
end

if exist('Cicobxx_2nd')==1
disp(appolo1);
gg1=0;

for i=1:numel(appolo1)
    if appolo1(i)==0
        gg1=gg1+1;
    end
end

if gg1==numel(appolo1)
    test1=[0];
    dim1=0;
else
    Cicoupt_2nd_ghorbel = sorti_urls(Cicobxx_2nd); disp(Cicoupt_2nd_ghorbel);

    fidop_2nd = fopen('file_2nd_bing.txt', 'w');
    fprintf(fidop_2nd, '%s\n', Cicoupt_2nd_ghorbel{:});
    fclose(fidop_2nd);

    p1=1;

```

```

    for i=1:numel(appolo1)
        if appolo1(i)~=0
            test1(p1)=appolo1(i);
            p1=p1+1;
        end
    end
    dim1=numel(test1);
end
else
    test1=[0];
    dim1=0;
end
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 3rd search
soletanche=0;
for t=1:numel(compteur)
    ff1=char(Cicobxx{t,:});
    louka=regexp(ff1,'');

    if numel(louka)>=1
        Cicobxx3{t,:}=ff1(1:louka(1)-1); disp(Cicobxx3);
        try
            bikopa19= webread(Cicobxx3{t,:});
            sokobb19=regexp(bikopa19,keyword);
            appolo19(t)=numel(sokobb19);

            Cicobxx_3rd{t,:}=Cicobxx3{t,:};
        catch
            disp('index dosent work');disp(t);
            soletanche=soletanche+1;

            Cicobx_fail {t,:}=Cicobxx3{t,:};
        end

    end
end
if exist('Cicobxx_3rd')==1
    disp(appolo19);
    gg2=0;

    for i=1:numel(appolo19)
        if appolo19(i)==0
            gg2=gg2+1;
        end
    end

if gg2==numel(appolo19)
    test2=[0];
    dim2=0;
else
    Cicoupt_3rd_ghorbel = sorti_urls(Cicobxx_3rd);

    fidop_3rd = fopen('file_3rd_bing.txt', 'w');
    fprintf(fidop_3rd, '%s\n', Cicoupt_3rd_ghorbel{:});
    fclose(fidop_3rd);

    p2=1;
    for i=1:numel(appolo19)
        if appolo19(i)~=0
            test2(p2)=appolo19(i);
            p2=p2+1;
        end
    end
    dim2=numel(test2);
end
else
    test2=[0];
    dim2=0;
end

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 4th search
soletanche2=0;
for y=1:numel(Cicobxx3)
    ff8=char(Cicobxx3{y,:});
    louka8=regexp(ff8,'&');

    if numel(louka8)>=1
        Cicobx_fail{y,:}=ff8(1:louka8(1)-1);
    end
end

```

```

        try
            bikopa38= webread(Cicobx_fail{y,:});
            sokobb38=regexp(bikopa33,keyword);
            appolo198(y)=numel(sokobb38);

            Cicobxx_4rd{y,:}=Cicobx_fail{y,:};
        catch
            disp('index dosent work');disp(y);
            soletanche2=soletanche2+1;

            Cicobxx_45rd{y,:}=Cicobx_fail{y,:};
        end
    end
end
if exist('Cicobxx_4rd')==1
    disp(appolo198);
    gg3=0;

    for i=1:numel(appolo198)
        if appolo198(i)==0
            gg3=gg3+1;
        end
    end
end

if gg3==numel(appolo198)
    test3=[0];
    dim3=0;
else
    fidop_4th = fopen('file_4th_bing.txt', 'w');
    fprintf(fidop_4th, '%s\n', Cicobxx_4rd{:});
    fclose(fidop_4th);

    p3=1;
    for i=1:numel(appolo198)
        if appolo198(i)~=0
            test3(p3)=appolo198(i);
            p3=p3+1;
        end
    end
    dim3=numel(test3);
end
else
    test3=[0];
    dim3=0;
end

x=[test,test1,test2,test3];
x1=[dim,dim1,dim2,dim3];

r=[x1,x];

end

```