

```
addpath 'D:\homework\comp vision\image pairs\'
```

```
I = imread('cheeto_2.jpg');
```

```
I = rgb2gray(I);
```

```
[J, rect] = imcrop(I);
```



```
T = imresize(J,[51 51]);
```

```
imshow(T)
```



```
ROI = [0 0 51 51];  
tMatcher = vision.TemplateMatcher('ROIInputPort', true, ...  
                                'BestMatchNeighborhoodOutputPort', true);
```

```
[location,Nvals,Nvalid] = tMatcher(I,T,ROI);  
location
```

```
location = 1x2 int32 row vector  
    28    26
```

Nvals

```
Nvals = 3x3 uint8 matrix  
    0     0     0  
   85    73   112  
  146   145   191
```

Nvalid

```
Nvalid = logical  
    0
```