#### **Table of Contents**

function 13\_46()

### input

```
image = imread('46.jpg');
[H,V,P] = size(image);
R = image(:,:,1);
G = image(:,:,2);
B = image(:,:,3);
  FigHandle = figure;
  set(FigHandle, 'Position', [50, 50, 1800, 800]);
Warning: JPEG library error (8 bit), "Corrupt JPEG data: 489 extraneous bytes before marker 0xd9"."
```

## For output 3

```
scale = 0.02;
filterV = horzcat(gen3(20,scale),gen2(20,scale));
subplot(2,6,7);
```

```
imagesc(image);
subplot(2,6,8);
imagesc(imcomplement(filterV)),colormap gray;
r = conv2(double(filterV), double(R), 'full');
g = conv2(double(filterV), double(G), 'full');
b = conv2(double(filterV), double(B), 'full');
[h,v,p] = size(r);
out3 = zeros(h,v);
out3(:,:,1) = r;
out3(:,:,2) = g;
out3(:,:,3) = b;
subplot(2,6,9);
imagesc(uint8(out3));
title('out3');
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output =							
Columns	s 1 t	hrough 7					
0.020	00	0	0	0	0	0	0
	0	0.0200	0	0	0	0	0
	0	0	0.0200	0	0	0	0
	0	0	0	0.0200	0	0	0
	0	0	0	0	0.0200	0	0
	0	0	0	0	0	0.0200	0
	0	0	0	0	0	0	0.0200
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
Colum	nns 8 th	rough 14					
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
0.0	200	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
Colum	nns 15 ti	hrough 20					
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	

0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0.0200	0.0200	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
O	O	U	U	O	O	O
Columns 15	through 20					
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
U	U	U	J	U	U	

0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
Ü	O	O	O	O	O	
output -						
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	-
						0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 1	5 through 20	)				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
output =						
	+ l					
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0 0
0	0	0	0	0	0	U

0	0	0	0	2	2	
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 15	through 20	)				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	

0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8 t	hrough 14					
COTAMINS O	Jii Ougii 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 15	through 20					
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	

0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0		0.0200	0	0	0
		0				
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0			0	0	0	0
-	0	0	•	•	_	-
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	0	0	0	0	0	0
0						
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0		0.0200		0	0	
	0		0.0200			0
0	0	0	0	0.0200	0	0

0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
<i>0</i> <i>0</i>	0	0 0	0 0	0 0	0 0	0
0	0 0	0	0	0	0	0 0
U	U	U	U	U	U	U
Columns 15	through 2	0				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0 0	0	0 0	0 0	
<i>0</i> <i>0</i>	0 0	0	0 0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	<i>0</i> <i>0</i>	0	0
<i>0</i> <i>0</i>	0 0	0 0	0 0	0	<i>0</i> <i>0</i>	<i>0</i> <i>0</i>
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

2	0	2	2	0	0	0
0	0	0	0	0	0	0
0	0	0 0	0	0 0	0	0
0	0	U	0	U	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 15	through 2	0				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	

0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
· ·	ŭ	· ·	Ū	J	· ·	J
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0.0200	0.0200	0	0	0	0	0
0	0.0200	0.0200	0	0	0	0
0	0	0.0200	0.0200	0	0	0
0	0	0	0.0200	0.0200	0	0
	0	0	0	0.0200	0.0200	0
0	0	0	0	0	0.0200	0.0200
0	0 0	0	<i>0</i> <i>0</i>	0	<i>0</i> <i>0</i>	0
0 0	0	0	0	0	0	0
		0	0			0
0	0 0	0	0	0	0	0
0 0	0	0 0	0	0	0 0	<i>0</i> <i>0</i>
U	U	U	U	U	U	U
Columns 15	5 through 20					
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
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0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0.0200	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
· ·	· ·	· ·		· ·	· ·	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
· ·	, and the second		· ·	· ·	· ·	v
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0

0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 1	5 through 2	0				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0.0200	0	0	0	0	0	
0	0.0200	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0 0.0200
0 0	0 0	0 0	0 0	0 0	0	0.0200
0	0	0	0	0	0 0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
	5 through 20					
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0.0200	0	0	0	0	0	
0	0.0200	0	0	0	0	
0	0	0.0200	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	

0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
· ·	ŭ	· ·	Ū	J	· ·	J
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0.0200	0.0200	0	0	0	0	0
0	0.0200	0.0200	0	0	0	0
0	0	0.0200	0.0200	0	0	0
0	0	0	0.0200	0.0200	0	0
	0	0	0	0.0200	0.0200	0
0	0	0	0	0	0.0200	0.0200
0	0 0	0	<i>0</i> <i>0</i>	0	<i>0</i> <i>0</i>	0
0 0	0	0	0	0	0	0
		0	0			0
0	0 0	0	0	0	0	0
0 0	0	0 0	0	0	0 0	<i>0</i> <i>0</i>
U	U	U	U	U	U	U
Columns 15	5 through 20					
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
•	•	Ü	O	· ·	O	

0 0 0 0 0 0 0 0 0.0200 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 8	through 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0

0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 15	through 20	0				
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0.0200	0	0	0	0	0	
0	0.0200	0	0	0	0	
0	0	0.0200	0	0	0	
0	0	0	0.0200	0	0	
0	0	0	0	0.0200	0	
0	0	0	0	0	0	
output =						
Columns 1	through 7					
0.0200	0	0	0	0	0	0
0	0.0200	0	0	0	0	0
0	0	0.0200	0	0	0	0
0	0	0	0.0200	0	0	0
0	0	0	0	0.0200	0	0
0	0	0	0	0	0.0200	0
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

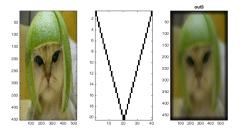
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columna 0	through 14					
COTUMIS 6	ciiiougii 14					
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0200	0	0 0	0	0	0	0
0	0.0200 0	0.0200	0	0	0 0	0
0 0	0	0.0200	0.0200	0 0	0	0
0	0	0	0.0200	0.0200	0	0
0	0	0	0	0.0200	0.0200	0
0	0	0	0	0	0.0200	0.0200
0	0	0	0	0	0	0.0200
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
Columns 15	5 through 20					
_						
0	0	0	0	0	0	
0	0 0	0 0	0	0 0	0 0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0.0200	0	0	0	0	0	
0	0.0200	0	0	0	0	
0	0	0.0200	0	0	0	
0	0	0	0.0200	0	0	
0	0	0	0	0.0200	0	
0	0	0	0	0	0.0200	

output =

Columns 1 through 7

0.0200	0	0	0	0	0	0	
0	0.0200	0	0	0	0	0	
0	0	0.0200	0	0	0	0	
0	0	0	0.0200	0	0	0	
0	0	0	0	0.0200	0	0	
0	0	0	0	0	0.0200	0	
0	0	0	0	0	0	0.0200	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
O	Ŭ	O	Ü	O .	O	O	
Columns 8	through 14						
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0			0	0	0		
0.0200	0 0	0	0	0		0	
	0.0200	0 0	0		0	0	
0		0.0200	0	0	0	0	
0	0 0	0.0200	0.0200	0	0	0	
0					0	0	
0	0	0	0	0.0200	0	0	
0	0	0	0	0	0.0200	0	
0	0	0	0	0	0	0.0200	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
Columns 15 through 20							
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
0	0	0	0	0	0		
U	U	U	U	U	U		

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0.0200	0	0	0	0	0
0	0.0200	0	0	0	0
0	0	0.0200	0	0	0
0	0	0	0.0200	0	0
0	0	0	0	0.0200	0
0	0	0	0	0	0.0200



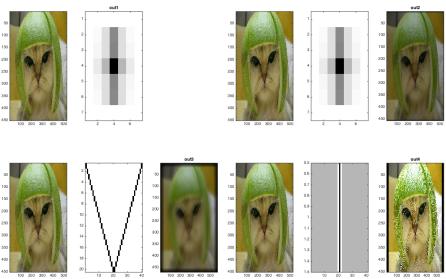
# for output 2

```
subplot(2,6,4);
imagesc(image);
subplot(2,6,5);
imagesc(imcomplement(f)),colormap gray;
subplot(2,6,6);
imagesc(out2);
title('out2');
```

#### out 4

```
f = zeros(1,41);
f(1,20) = -0.01;
f(1,21) = 0.025;
f(1,22) = -0.01;
r = conv2(double(f), double(R), 'full');
g = conv2(double(f), double(G), 'full');
b = conv2(double(f), double(B), 'full');
size(r);
size(q);
size(b);
out4 = zeros(size(r));
out4(:,:,1) = r;
out4(:,:,2) = g;
out4(:,:,3) = b;
subplot(2,6,10);
imagesc(image);
subplot(2,6,11);
imagesc(imcomplement(f)),colormap gray;
subplot(2,6,12)
imagesc(out4);
title('out4');
응응응응
     out1 TODO
ratio = 0.4;
f = noise(7,ratio);
r = conv2(f, R, 'full');
g = conv2(f, G, 'full');
b = conv2(f, B, 'full');
size(r);
size(g);
```

```
size(b);
out2 = zeros(size(r));
out2(:,:,1) = r;
out2(:,:,2) = q;
out2(:,:,3) = b;
subplot(2,6,1);
imagesc(image);
subplot(2,6,2);
imagesc(imcomplement(f)),colormap gray;
% subplot(2,6,3)
% imagesc(out2)
title('out1');
Warning: CONV2 on values of class UINT8 is obsolete.
         Use CONV2(DOUBLE(A), DOUBLE(B)) or CONV2(SINGLE(A), SINGLE(B)) instead.
Warning: CONV2 on values of class UINT8 is obsolete.
         Use CONV2(DOUBLE(A), DOUBLE(B)) or CONV2(SINGLE(A), SINGLE(B)) instead.
Warning: CONV2 on values of class UINT8 is obsolete.
         Use CONV2(DOUBLE(A), DOUBLE(B)) or CONV2(SINGLE(A), SINGLE(B)) instead.
Warning: CONV2 on values of class UINT8 is obsolete.
         Use CONV2(DOUBLE(A), DOUBLE(B)) or CONV2(SINGLE(A), SINGLE(B)) instead.
Warning: CONV2 on values of class UINT8 is obsolete.
         Use\ CONV2(DOUBLE(A), DOUBLE(B))\ or\ CONV2(SINGLE(A), SINGLE(B))\ instead.
Warning: CONV2 on values of class UINT8 is obsolete.
         Use CONV2(DOUBLE(A), DOUBLE(B)) or CONV2(SINGLE(A), SINGLE(B)) instead.
```



end

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