
Subject: Smooth and /EDGE_TRUNCATE

Posted by [Fabzi](#) on Tue, 29 Apr 2014 14:35:39 GMT

[View Forum Message](#) <> [Reply to Message](#)

IDLers,

I've lost 3 hours of my life on this. Can someone explain me why the /EDGE_TRUNCATE keyword has an incidence on the results WITHIN the image, where the kernel meets no edge?

pro test_smooth

```
; make an array with a nan in the center
```

```
array = FINDGEN(5,5)
```

```
array[2,2] = !VALUES.F_NAN
```

```
print, ' Exp 1'
```

```
print, 'Expected', MEAN(array[1:3,1:3], /NAN)
```

```
print, 'No truncate', (smooth(array, 3, /NAN))[2,2]
```

```
print, 'Truncate', (smooth(array, 3, /NAN, /EDGE_TRUNCATE))[2,2]
```

```
; so far so good. Add a NaN somewhere else
```

```
array[1,1] = !VALUES.F_NAN
```

```
print, ' Exp 2'
```

```
print, 'Expected', MEAN(array[1:3,1:3], /NAN)
```

```
print, 'No truncate', (smooth(array, 3, /NAN))[2,2]
```

```
print, 'Truncate', (smooth(array, 3, /NAN, /EDGE_TRUNCATE))[2,2]
```

end

Thanks a lot!

Fabien
