
Subject: dilate

Posted by [Achim Hein](#) on Wed, 26 Feb 1997 08:00:00 GMT

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Some days ago, we spoke about ERODE and DILATE-Routines. To offer our routines, we have to export them to 'C' - so the dilating routine too. While testing the DILATE routine, we find a little difference between the IDL/WAVE and the C-routines.

As I understand it till now it seems to be a problem in IDL or - there is truly the possibility - I do not understand it right.

First of all, the dilation looks if only one pixel of an interesting area (field) is equal to the structuring element before setting the resulting pixel (middle of the structuring element) to one. The resulting image has the same size as the incoming array.

So let us look the following example:

the field is given by:

```
.....  
0 0 0 1 1 ... second row  
0 0 0 1 1 ... first row
```

dilated with the structuring element:

```
0 1 0  
1 1 1  
0 1 1
```

I expect the result like this:

```
...  
0 0 1 1 ... second row  
0 0 1 1 ... first row
```

But IDL gives:

```
...  
0 0 1 1 1 ... second row  
0 0 0 1 1 ... first row
```

Can anybody explain this? Borderproblems?

Thanks

Achim

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