
Subject: 3D Matrix

Posted by [pushyar](#) on Mon, 11 Nov 2002 20:26:48 GMT

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Hi..

In order to perform 3D dilation, i need to create a 3D structuring element. Can anybody tell me how i can create a 3D matrix.

I have a 2D matrix as

```
Str_Elem = [[1,1,1],[1,1,1],[1,1,1]]
```

I want to extend it to 3D. Please help me with this.

Please let me know if there is any way to access the ERODE or DILATE code?

Cheers,
Akhila.

Subject: Re: 3D Matrix

Posted by [James Kuyper](#) on Tue, 12 Nov 2002 18:54:49 GMT

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Pushya wrote:

>

> I think that will create a 3D matrix with all 'ones'. The structuring
> element i need will look like this.

> Str_Elem1 = [[0,0,0],[0,1,0],[0,0,0]]

> Str_Elem2 = [[0,1,0],[1,1,1],[0,1,0]]

> Str_Elem3 = [[0,0,0],[0,1,0],[0,0,0]]

```
Str_Elem = [[[0,0,0],[0,1,0],[0,0,0]], $  
            [[0,1,0],[1,1,1],[0,1,0]], $  
            [[0,0,0],[0,1,0],[0,0,0]]]
```
