layout: post

title: "Image convolutions" date: 2019-04-20 excerpt: "Convolutions" tag:

- sample post
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comments: true

Motivation





[[0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1]]





```
[[0.1]
[0.1]
[0.1]
[0.1]
[0.1]
[0.1]
[0.1]
[0.1]
[0.1]
```





[[0. 0. 0. 0. 0.] [0. 0. 0. 0. 0.] [0. 0. 1. 0. 0.] [0. 0. 0. 0. 0.] [0. 0. 0. 0. 0.]





```
array([[0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01], [0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01]])
```





After Filtering

[[-0.125 -0.125 -0.125] [-0.125 1. -0.125] [-0.125 -0.125 -0.125]]

The code is available on my GitHub repository: GitHub Repository

Reference