

<https://medium.com/@gokcenazakyol/what-is-image-enhancement-image-processing-3-32a813087e0a>

<https://sbme-tutorials.github.io/2018/cv/notes/4_week4.html#sobel-operator>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 0 | 0 | 1 | 1 | 1 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |

|  |  |  |
| --- | --- | --- |
| 1 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 (1) | 1  (0) | 1  (1) | 0 | 0 |
| 0  (0) | 1  (1) | 1  (0) | 1 | 0 |
| 0  (1) | 0  (0) | 1  (1) | 1 | 1 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |

1\*1 + 1\*0 + 1\*1 + 0\*0 + 1\*1 + 1\*0 + 0\*1 + 0\*0 + 1\*1=4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 1  (1) | 1  (0) | 0  (1) | 0 |
| 0 | 1  (0) | 1  (1) | 1  (0) | 0 |
| 0 | 0  (1) | 1  (0) | 1  (1) | 1 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |

= 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 1 | 1  (1) | 0  (0) | 0  (1) |
| 0 | 1 | 1  (0) | 1  (1) | 0  (0) |
| 0 | 0 | 1  (1) | 1  (0) | 1  (1) |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |

=4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 0 | 0 |
| 0  (1) | 1  (0) | 1  (1) | 1 | 0 |
| 0  (0) | 0  (1) | 1  (0) | 1 | 1 |
| 0  (1) | 0  (0) | 1  (1) | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |

2,4,3

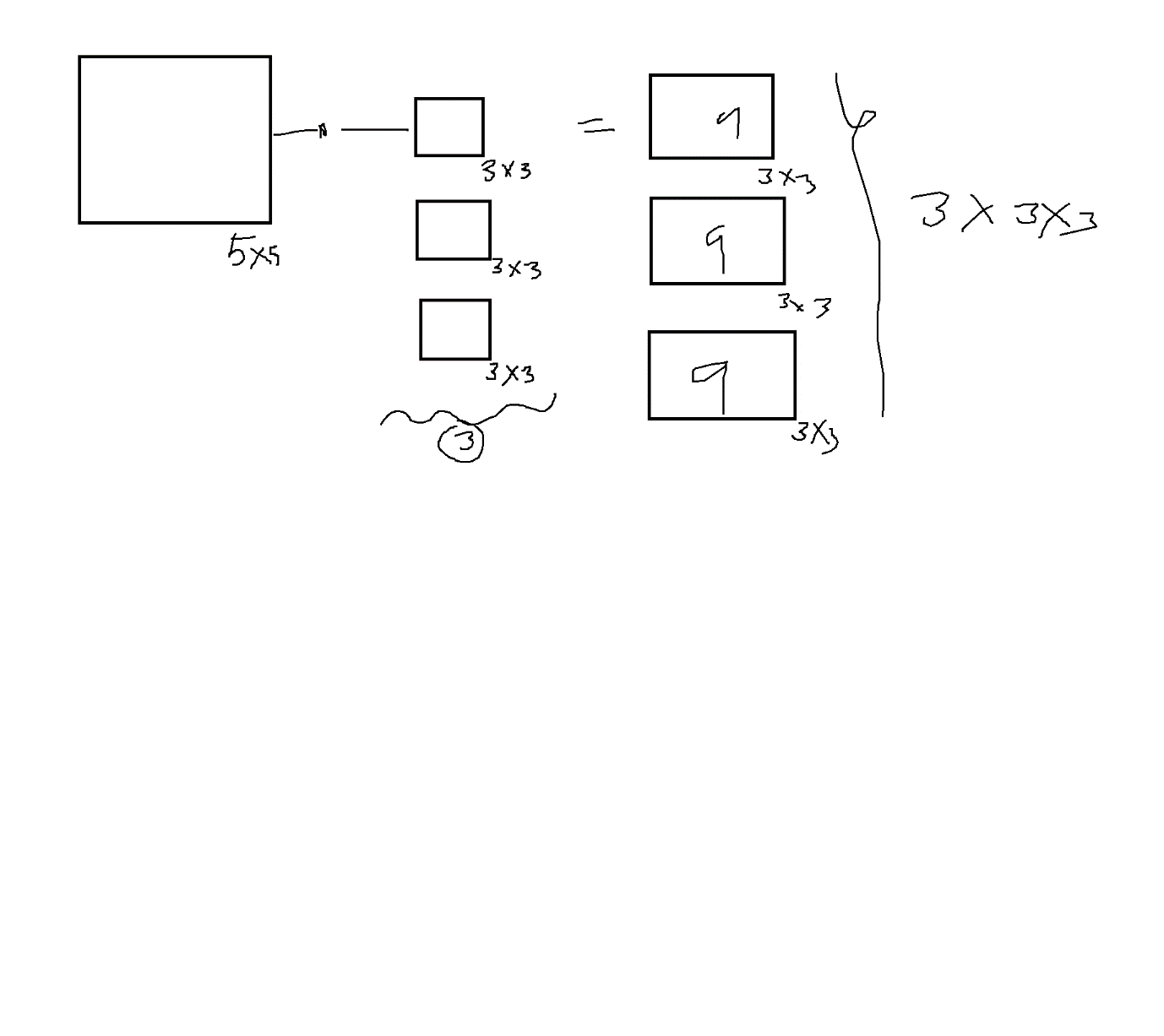
First slide to right : 4,3,4

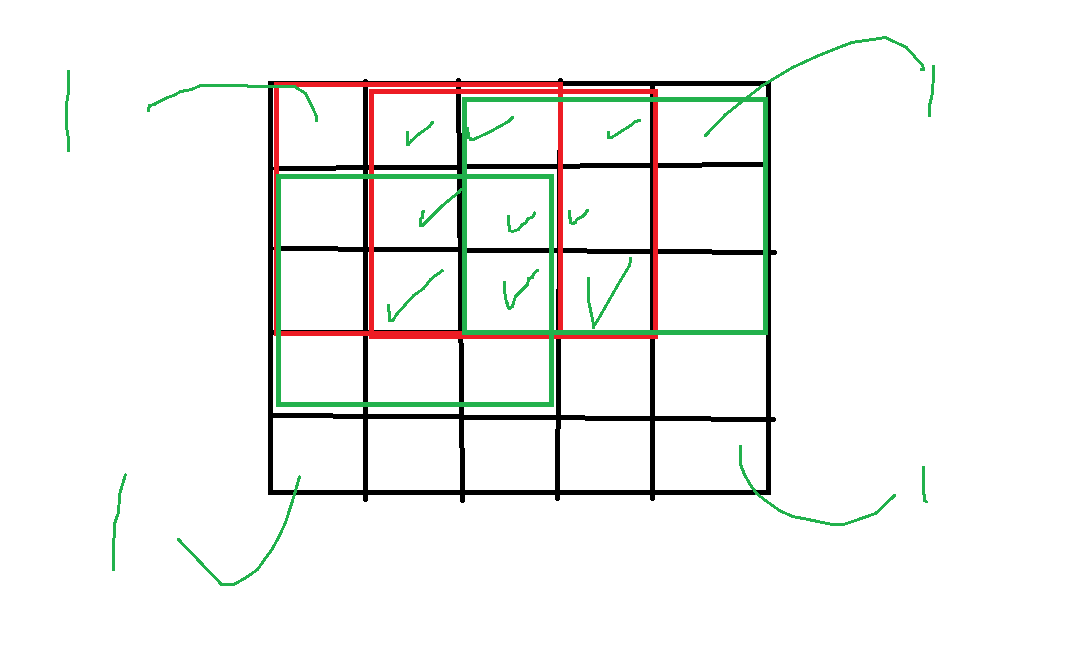
Second time slide to right= 2,4,3

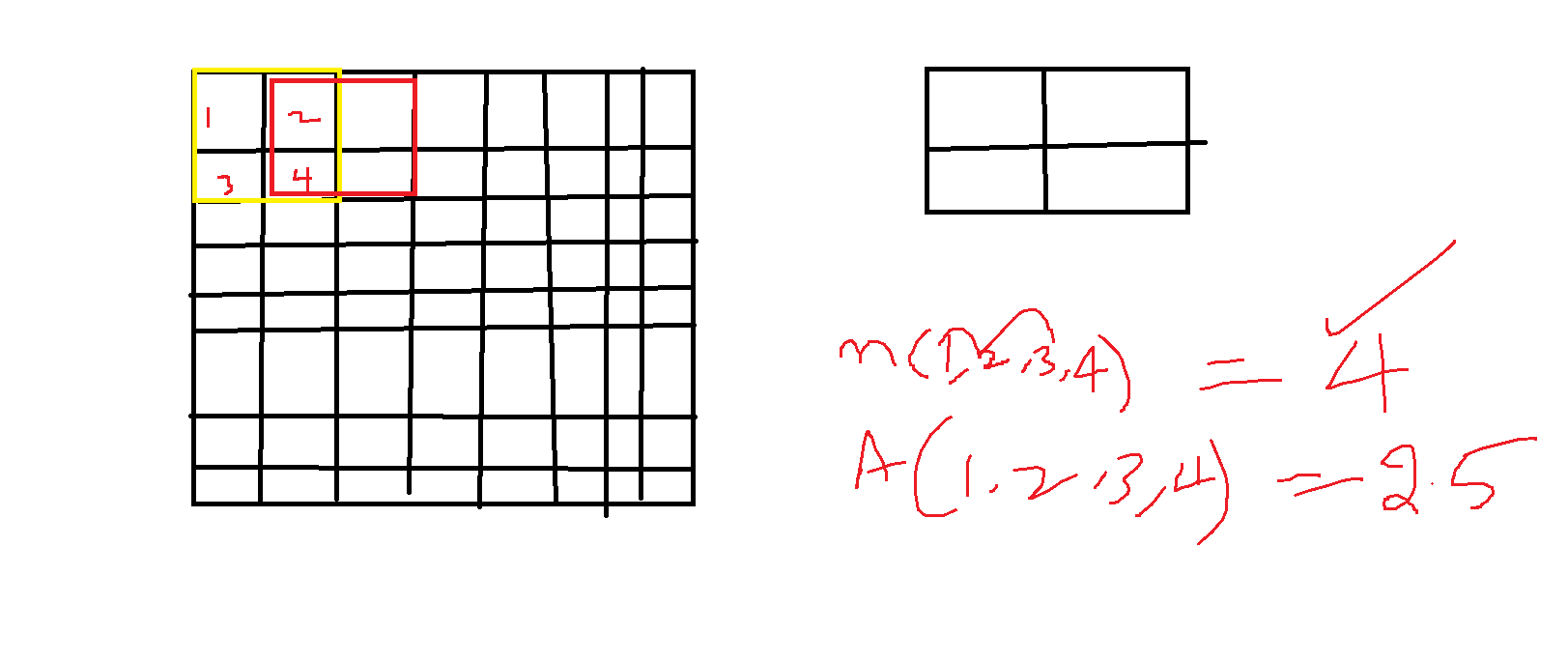
Third time slide to right = 2,3,4

New Image:

|  |  |  |
| --- | --- | --- |
| 4 | 3 | 4 |
| 2 | 4 | 3 |
| 2 | 3 | 4 |







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