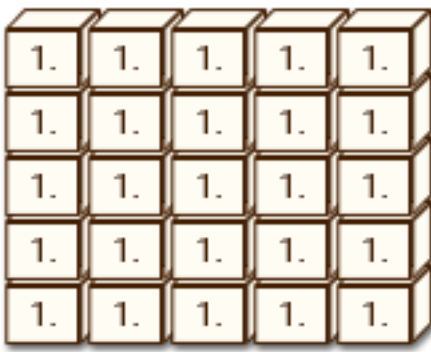


NumPy: Create a 2d array with 1 on the border and 0 inside

Last update on February 26 2020 08:09:27 (UTC/GMT +8 hours)

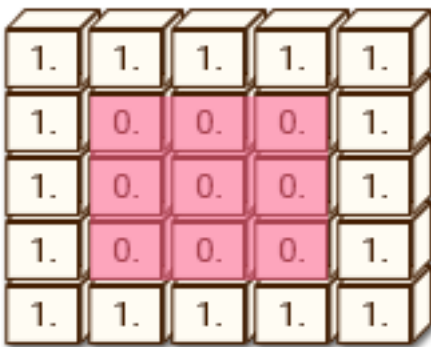


1.	1.	1.	1.	1.
1.	1.	1.	1.	1.
1.	1.	1.	1.	1.
1.	1.	1.	1.	1.
1.	1.	1.	1.	1.



1 on the border and 0
inside in the array
using

$x[1:-1,1:-1] = 0$

1.	1.	1.	1.	1.
1.	0.	0.	0.	1.
1.	0.	0.	0.	1.
1.	0.	0.	0.	1.
1.	1.	1.	1.	1.

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Sample Solution:-

Python Code:

```
import numpy as np
x = np.ones((5,5))
print("Original array:")
print(x)
```

```
print("1 on the border and 0 inside in the array")
x[1:-1,1:-1] = 0
print(x)
```

Sample Output:

Original array:

```
[[ 1.  1.  1.  1.  1.]
 [ 1.  1.  1.  1.  1.]
 [ 1.  1.  1.  1.  1.]
 [ 1.  1.  1.  1.  1.]
 [ 1.  1.  1.  1.  1.]]
```

1 on the border and 0 inside in the array

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

Python Code Editor:

Have another way to solve this solution? Contribute your code (and comments) through Disqus.