

```
from stencil_kernel import *
```

```
class ExampleKernel(StencilKernel):  
    def kernel(self, in_grid, out_grid):  
        for x in out_grid.interior_points():  
            for y in in_grid.neighbors(x, 1):  
                out_grid[x] = out_grid[x] + in_grid[y]
```

```
in_grid = StencilGrid([5,5])
```

```
in_grid.data = numpy.ones([5,5])
```

```
out_grid = StencilGrid([5,5])
```

```
ExampleKernel().kernel(in_grid, out_grid)
```

1	1	1		0	0	0
1	1	1	→	0	4	0
1	1	1		0	0	0