```
(* create a Gaussian Kernel of radius 1 *)
```

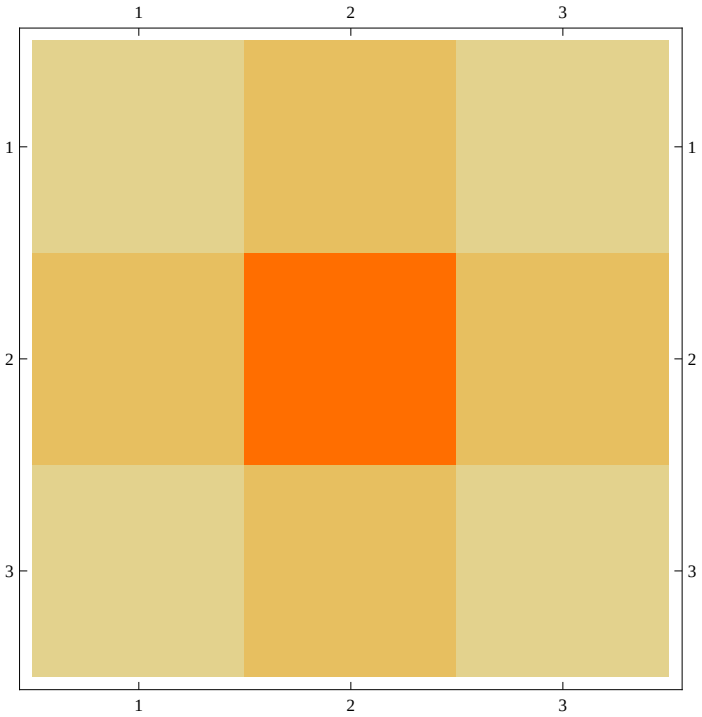
In[452]:=
```
kernel = GaussianMatrix[1]
```

Out[452]=
```
{{0.00987648, 0.0796275, 0.00987648},
 {0.0796275, 0.641984, 0.0796275}, {0.00987648, 0.0796275, 0.00987648}}
```

```
(* Visualise the kernel - values increase towards the centre of the matrix*)
```

In[455]:=
```
MatrixPlot[kernel]
```

Out[455]=



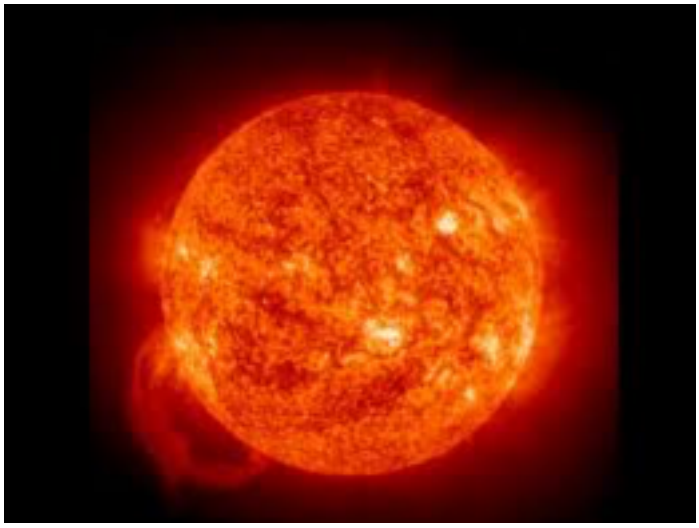

```
(* Take a random image and apply
 the kernel to the image at each pixel value *)
```

In[459]:=
```
sun =
```

```
;
```

In[462]:=
```
new = ImageCorrelate[sun, kernel]
```

Out[462]=



```
(* Repeat the process up to 100 times *)
```

In[472]:=
```
Manipulate[
 Nest[ImageCorrelate[#, kernel] &, sun, n], {n, 1, 100, 1}
]
```

Out[472]=