Canny edge detection

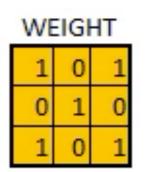
By: 会飞的吴克





积:

0	0	0	0	0	0	0	0
0	18	54	51	239	244	188	0
0	55	121	75	78	95	88	0
0	35	24	204	113	109	221	0
0	3	154	104	235	25	130	0
0	15	253	225	159	78	233	0
0	68	85	180	214	245	0	0
0	0	0	0	0	0	0	0

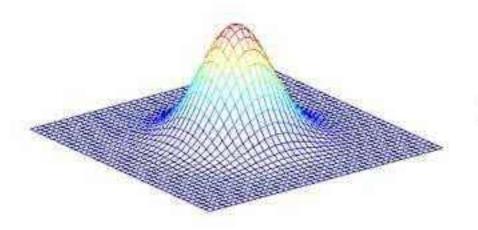


139

padding

stride

常见的卷积核:



$$\mathbf{B} = \frac{1}{159} \begin{bmatrix} 2 & 4 & 5 & 4 & 2 \\ 4 & 9 & 12 & 9 & 4 \\ 5 & 12 & 15 & 12 & 5 \\ 4 & 9 & 12 & 9 & 4 \\ 2 & 4 & 5 & 4 & 2 \end{bmatrix} * \mathbf{A}$$

Gx					
+1	+2	+1			
0	0	0			
-1	-2	-1			

-1	0	+1			
-2	0	+2			
-1	0	+1			
Gy					

边的特征:



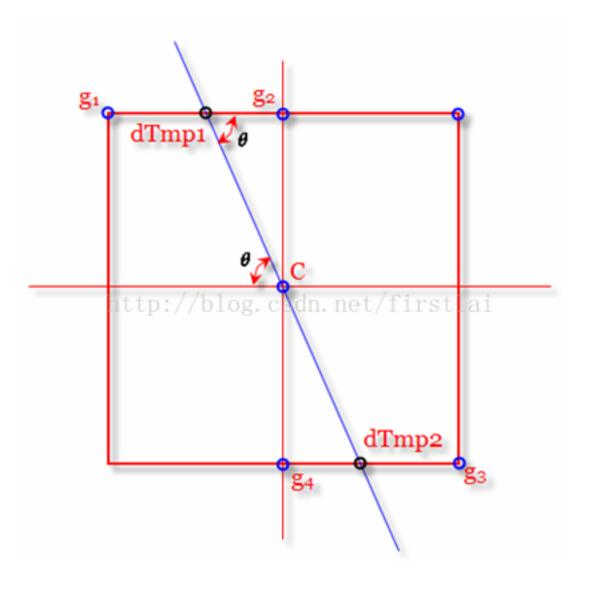
衡量变化率:

-1	-2	-1	-1	0	+1
0	0	0	-2	0	+2
+1	+2	+1	-1	0	+1
Gx			Gy		

$$Edge_Gradient~(G) = \sqrt{G_x^2 + G_y^2}$$
 $Angle~(heta) = an^{-1}\left(rac{G_y}{G_x}
ight)$

非极大值抑制:





边缘的连接:

