If we set $w = \begin{bmatrix} 0 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 1 & 0 \end{bmatrix}$ $\begin{bmatrix} 0 & -1 & 1 \\ 0 & 0 & 0 \end{bmatrix}$ $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$ with work as anothing Y_1 and w_2 will work as anothing Y_2 . Since we have zero-padding = augment the matrix X such that the index starts at 0. $(X_0, := X_1, o = D)$ $\left(\begin{array}{c} X_{i,i,j} = \sum\limits_{\alpha=1}^{2} \sum\limits_{b=1}^{2} W_{i,b;\alpha} + \alpha_{i,b} \cdot y_{i+1} + \beta_{i+1} \cdot y_{i+1} + \beta_{i+$ $Y_{2-i,j} = \sum_{k=1}^{3} \sum_{k=1}^{3} W_{2,k-1+k}^{2} W_{2,k-1+k}^{2} X_{k-1+k} X_{k-2+k}, (j-2+k) = -X_{ij} + X_{i,j} + X_{i,j}$ W If we consider the filter $w \in \mathbb{R}^{\mathsf{Cx} \, \mathsf{Cxk} \, \mathsf{xk}}$ s.t. $w_{\mathsf{ayes}} = \frac{1}{\mathsf{k}^2} \int_{\mathsf{xy}} \mathsf{y}$ and no bitas/ the output of the consolution operation of X with un with stride k will be a tensor of size CX KX . Also $Y_{cij} = \sum_{l=1}^{C} \sum_{\alpha=1}^{k} \sum_{k=1}^{k} W_{c,\alpha}, k(i+1)+\alpha, k(j+1)+\delta$. $X_{d,k(i-1)+\alpha}, k(j+1)+\delta$ = \frac{C}{\infty} \frac{k}{\infty} \frac{1}{k} \frac{ $= \frac{1}{12} \sum_{k=1}^{k} \sum_{k=1}^{k} \chi_{c,k(i-1)+a,k(j+1)+b}$ W set the filter well* as W1,1,1 = 0.299, W21,1= 0.581, G2,1,1=0.114, and set this to False Now operate the consolution operation of K and w with stride ! Then $|x_i| = \sum_{c=1}^{\infty} \sum_{c=1}^{\infty} \sum_{b=1}^{\infty} |w_{c,(b+1)+a,(j+1)+b}| |x_{c,(b+1)+a,(j+1)+b}|$ $= w_{i,i,i} \chi_{i,i,j} + w_{2,i,i} \chi_{2,i,j} + w_{3,1,i} \chi_{3,i,j}$: Y = 0.29 R+ 0.58 G+ 0.114 B. W. If we prform P(X), we take the maximum value inside the fitter, move the fitter, and report this process, let's say one max-pooling step with a fitter as a step" In each step, are chase the maximum value among the set of numbers determined in X by the fitter =denote it as is if we consider P(T(X)), denote $T(N) := \frac{3}{3}T(S) | S \in \mathbb{R}^{n}$. $\max(\sigma(\mu')) = \sigma(\alpha)$ stree σ is a non-density function. \Rightarrow Stace the element of each entry of $\sigma(e^{(x)})$ and $e^{(a+cx)})$ (If max (or(N))= ory) > or(n) => y> a which is a contradiction)

are identical, they are the same.

#6
(10) If
$$w = Av$$
, $\frac{\partial u}{\partial v} = A$

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v} = A_{ij}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v} = A_{ij}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v} = A_{ij}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v} = A_{ij}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v} = A_{ij}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac{\partial u}{\partial v}$.

Ph $\left(\frac{\partial w}{\partial v}\right)_{ij} = \frac$

$$\begin{aligned}
& [Be]_{ij} = \left[\frac{\partial y_L}{\partial y_R}\right]_i \cdot (y_{L^{\prime}})_j \\
& [R^{\prime\prime}]_{i} = \left[\frac{\partial y_L}{\partial y_R}\right]_i \cdot (y_{L^{\prime}})_j \\
& [C_L := Jag (T'(A_L y_{L^{\prime}} + b_L))] \Rightarrow [C_L]_{ii} = T'([A_L y_{L^{\prime}} + b_L]_i) \\
& \frac{\partial y_L}{\partial (A_L)_{ij}} = (C_L)_{ii} \cdot (B_L)_{ij} \\
& \Rightarrow \underbrace{A_L}_{k=1} = C_L B_L = Jag (T'(A_L y_{L^{\prime}} + b_L)) \cdot \left(\frac{\partial y_L}{\partial y_R}\right)^T \cdot (y_{L^{\prime}})^T \\
& \Rightarrow \underbrace{A_L}_{k=1} = C_L B_L = Jag (T'(A_L y_{L^{\prime}} + b_L)) \cdot \left(\frac{\partial y_L}{\partial y_R}\right)^T \cdot (y_{L^{\prime}})^T
\end{aligned}$$

Щ