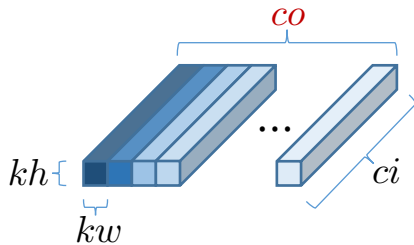


convolutional kernel
(co , ci , kw , kh)

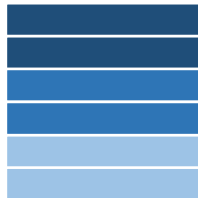


low high
the amount of information



co

$ci \times kw \times kh$

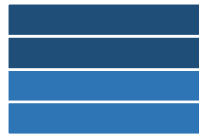


weight matrix

PCA with matrix
information
retention ratio r



$ci \times kw \times kh$



co'

low-dimensional
weight matrix whose
percentage of
cumulative information
 R meets $R \geq r$