

$$e_{t,i,j} = f_{\text{att}}(s_{t-1}, h_{i,j})$$

$$a_{t,:} = \text{softmax}(e_{t,:})$$

$$c_t = \sum_{i,j} a_{t,i,j} h_{i,j}$$



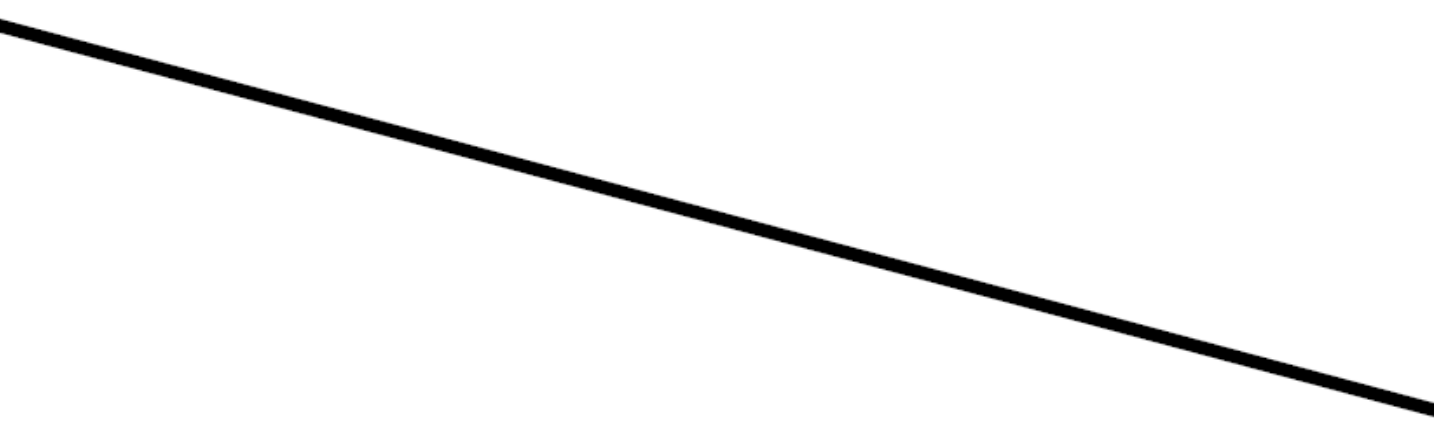
CNN

Use a CNN to compute a grid of features for an image

$h_{1,1}$	$h_{1,2}$	$h_{1,3}$
$h_{2,1}$	$h_{2,2}$	$h_{2,3}$
$h_{3,1}$	$h_{3,2}$	$h_{3,3}$

Alignment scores

$e_{2,1,1}$	$e_{2,1,2}$	$e_{2,1,3}$
$e_{2,2,1}$	$e_{2,2,2}$	$e_{2,2,3}$
$e_{2,3,1}$	$e_{2,3,2}$	$e_{2,3,3}$



s_0

s_1

c_1

y_0

y_1

cat

[START]

