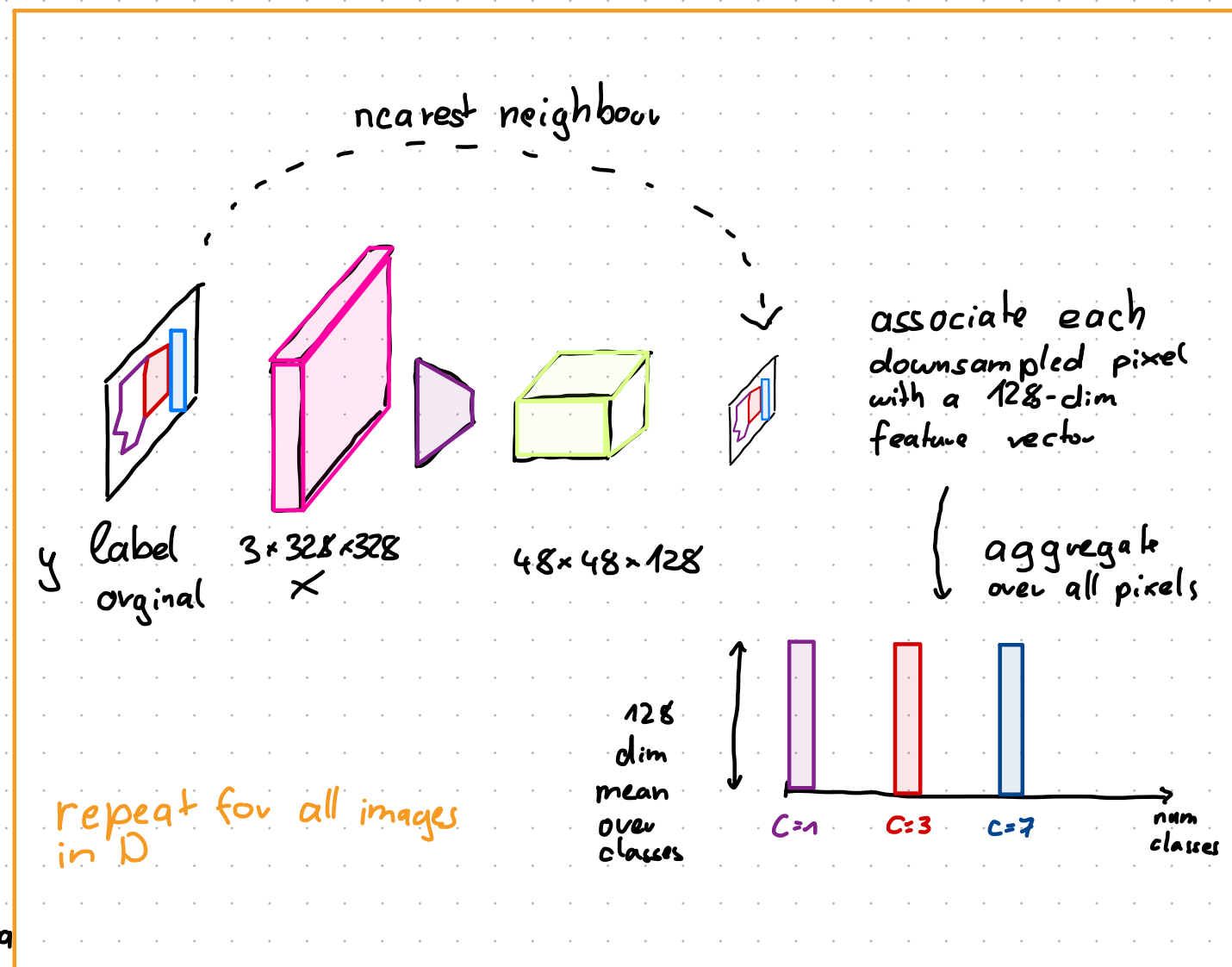


$N$ -samples  
Task Data



$N \times NC \times 128$  dataset embedding

$\rightarrow$  calculate class wise centroids  $NC \times 128$

$\rightarrow$  find class wise Top-K Images with highest distance to centroid

$K \times NC$  Image candidates for buffer

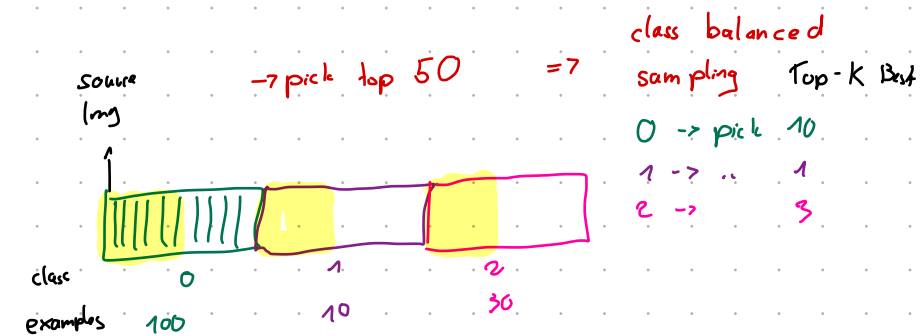
$\rightarrow$  put  $K'$  Images from Image candidates into buffer

## Aggregation

- Should we associate a latent feature to a single class or maybe all possible ones in the label
- Associate them according to soft-max output

## Distance Metric

- cosine-similarity  $\rightarrow$  do we need length invariance
- some norm



## Assumptions

- Fast R-CNN latent features are connected to pixel wise label at same pose given CNN-arch!
- The feature mean over an image is meaningful (some how clustered together even pixel wise)
- Distance metric from centroid of class reflects uncertainty or indicates that a sample is on decision boundary

Ideas: incorporate the network predicted label only use correctly classified when aggregating

- measure distance to other clusters