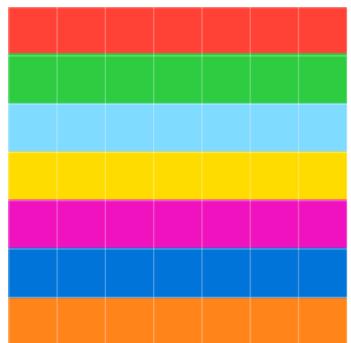
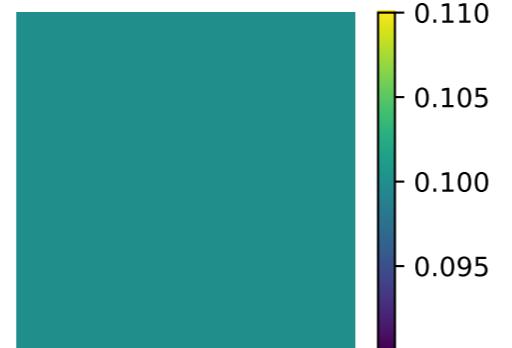


CNN Feature Analysis: Grid 7x7

Original Input



One-Hot Embedding
10 channels



Grid Size: 7x7 | CNN: 3 conv layers | Hidden Dim: 128

Layer Statistics:

EMBED: Ch=10, Size=(7, 7), Mean=0.100±0.065, Range=[0.00,1.00]
Diversity=0.8571, Sparsity=0.900, Entropy=1.36

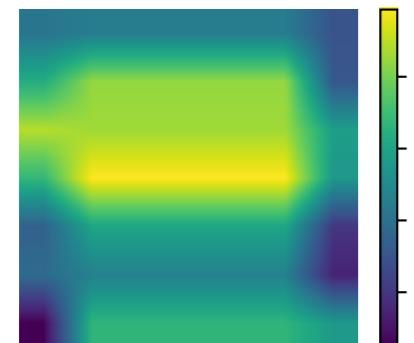
CONV1: Ch=32, Size=(7, 7), Mean=0.708±0.469, Range=[0.00,8.13]
Diversity=0.6853, Sparsity=0.653, Entropy=2.43

CONV2: Ch=32, Size=(7, 7), Mean=0.427±0.288, Range=[0.00,4.36]
Diversity=0.6596, Sparsity=0.667, Entropy=2.40

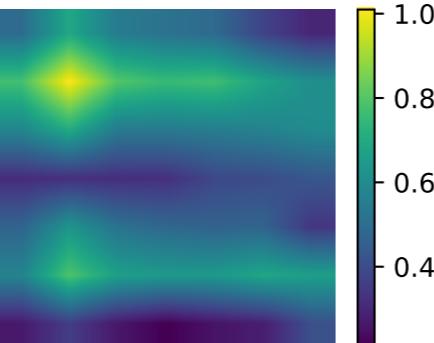
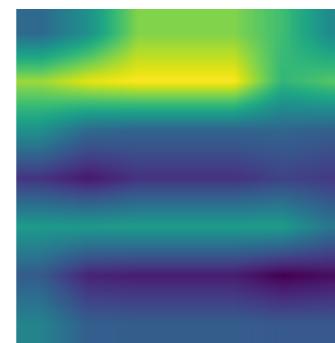
CONV3: Ch=32, Size=(7, 7), Mean=0.517±0.370, Range=[0.00,4.16]
Diversity=0.4258, Sparsity=0.420, Entropy=3.03

SPATIAL_FEATURES: Ch=32, Size=(7, 7), Mean=0.517±0.370, Range=[0.00,4.16]
Diversity=0.4258, Sparsity=0.420, Entropy=3.03

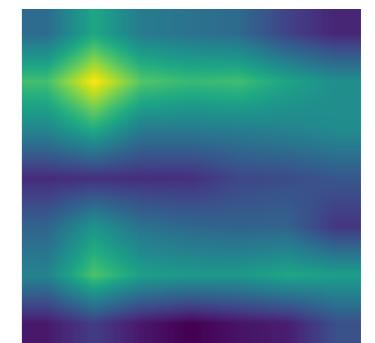
CONV1 Average
1 channels



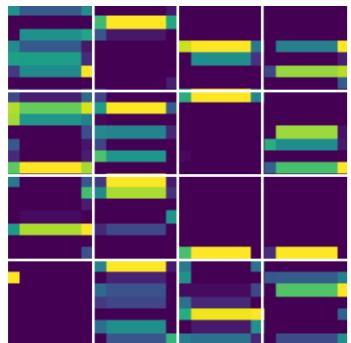
CONV2 Average
1 channels



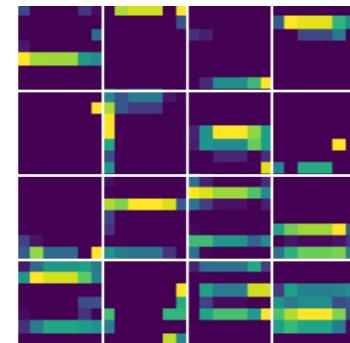
Spatial Features (avg)
→ Input to Slot Attention



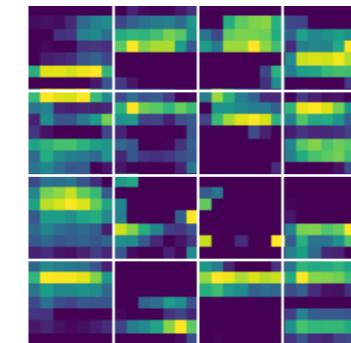
Feature Channels (showing 16/32)



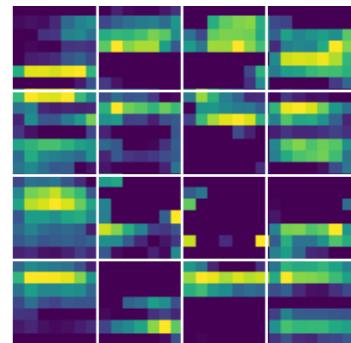
Feature Channels (showing 16/32)



Feature Channels (showing 16/32)



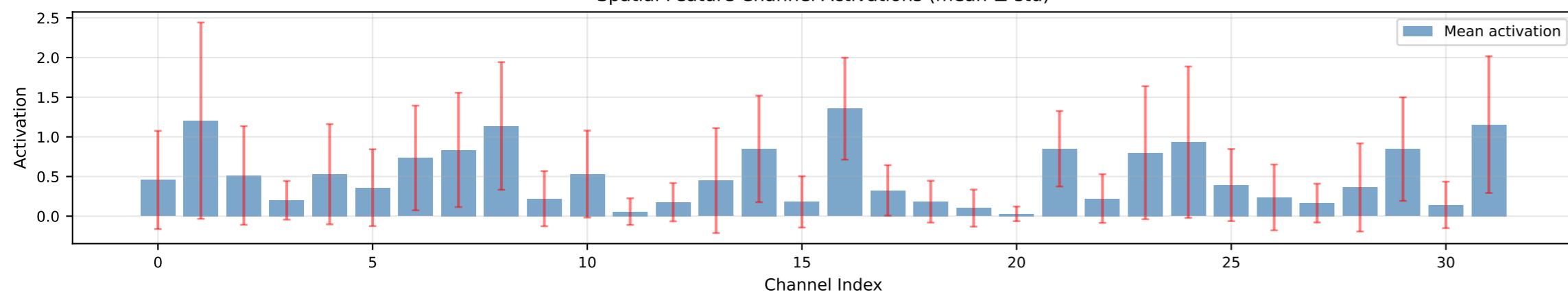
Feature Channels (showing 16/32)



DIAGNOSIS SUMMARY:

- GOOD SPARSITY
- GOOD ENTROPY

Spatial Feature Channel Activations (mean ± std)



Spatial Location Similarity
(sample of 49 locations)

