

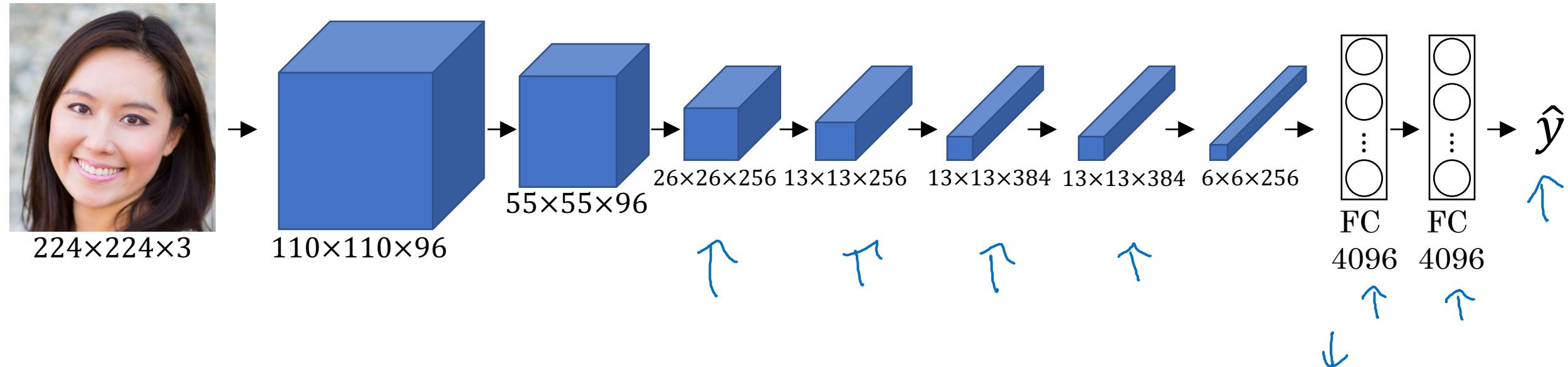


deeplearning.ai

Neural Style Transfer

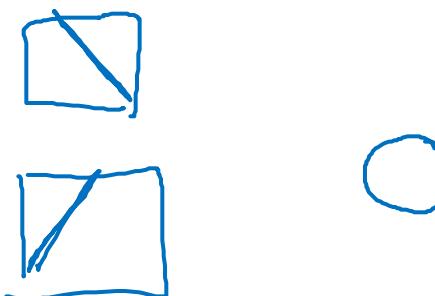
What are deep
ConvNets learning?

Visualizing what a deep network is learning

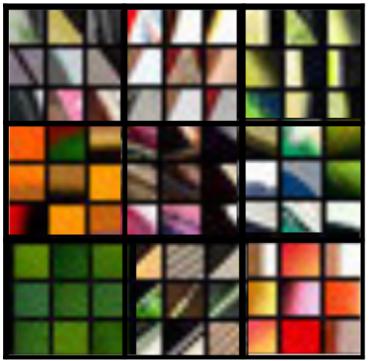


Pick a unit in layer 1. Find the nine image patches that maximize the unit's activation.

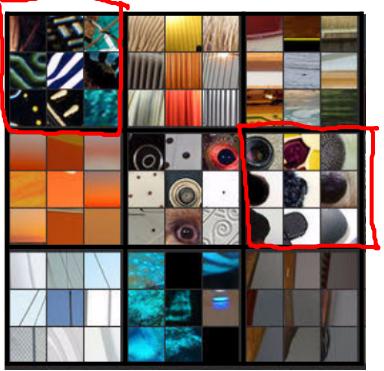
Repeat for other units.



Visualizing deep layers



Layer 1



Layer 2



Layer 3

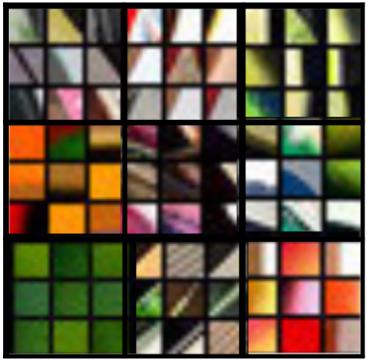


Layer 4

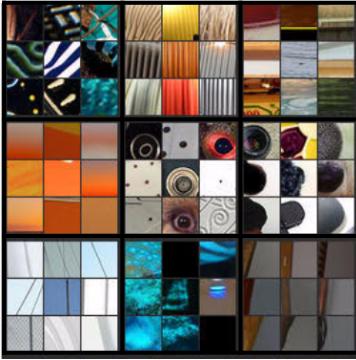


Layer 5

Visualizing deep layers: Layer 1



Layer 1



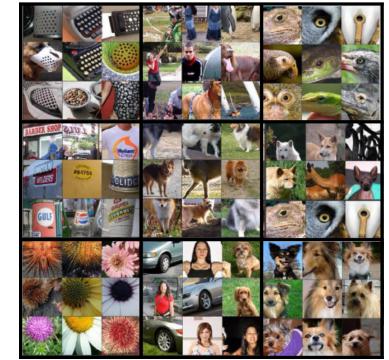
Layer 2



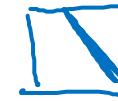
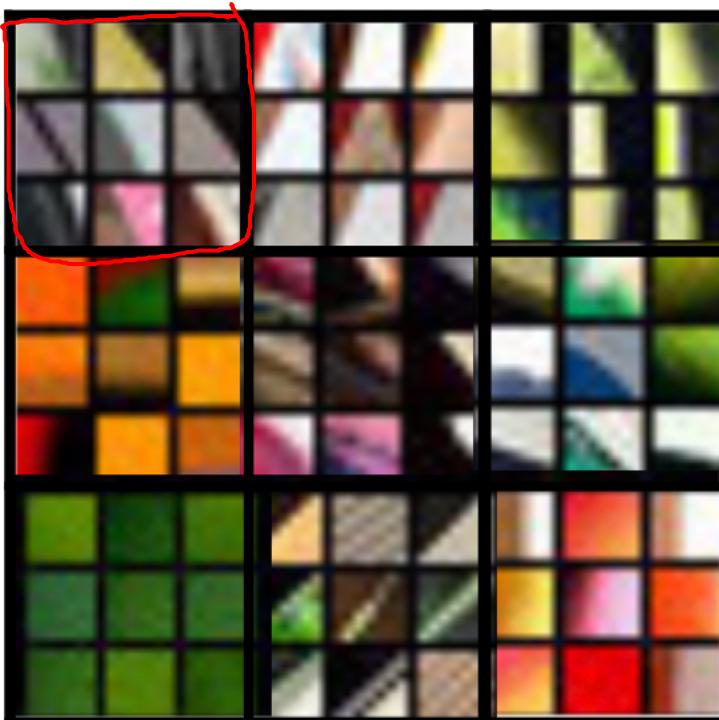
Layer 3



Layer 4



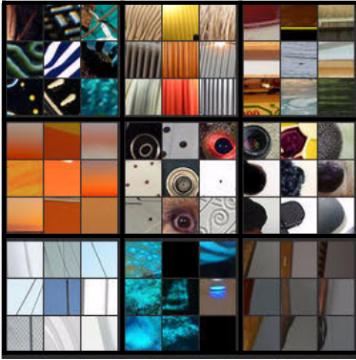
Layer 5



Visualizing deep layers: Layer 2



Layer 1



Layer 2



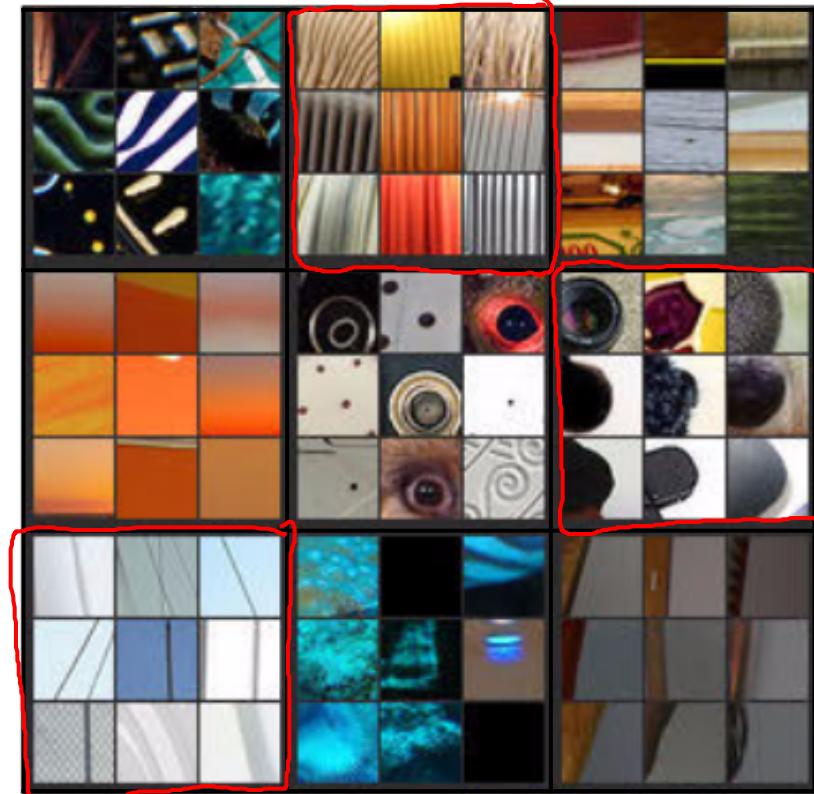
Layer 3



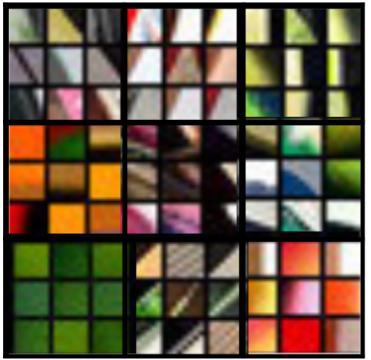
Layer 4



Layer 5



Visualizing deep layers: Layer 3



Layer 1



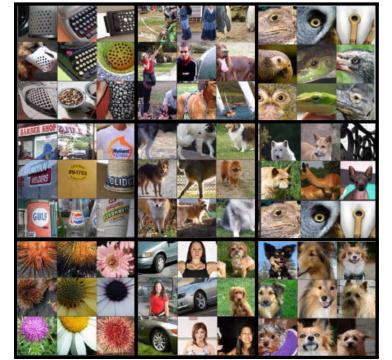
Layer 2



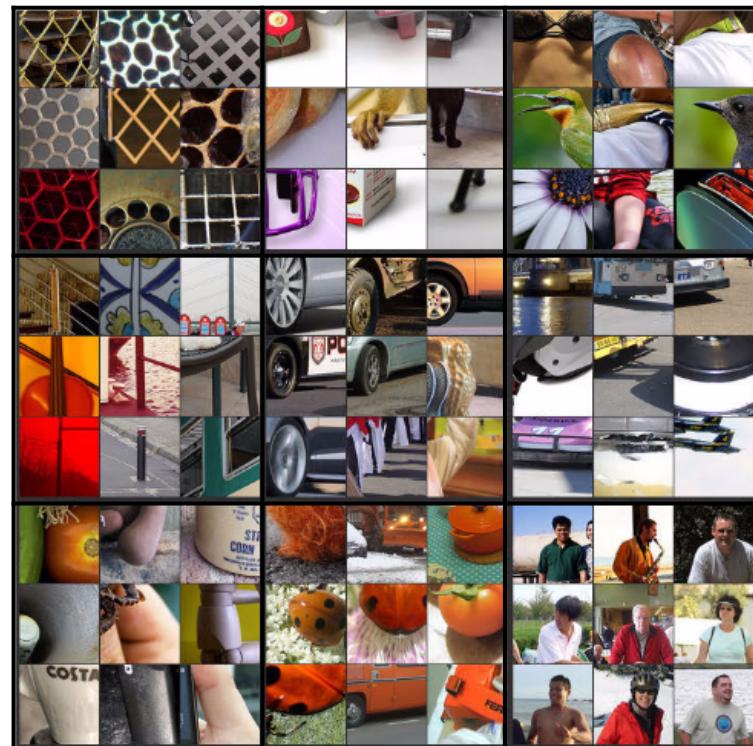
Layer 3



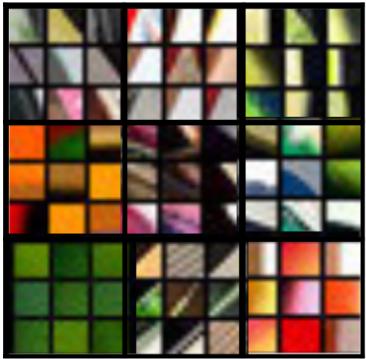
Layer 4



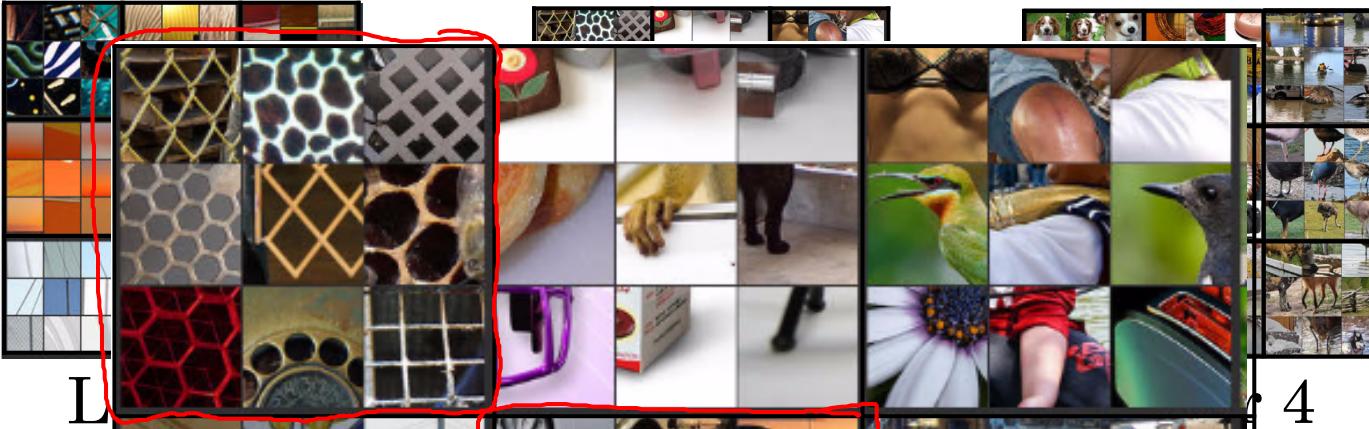
Layer 5



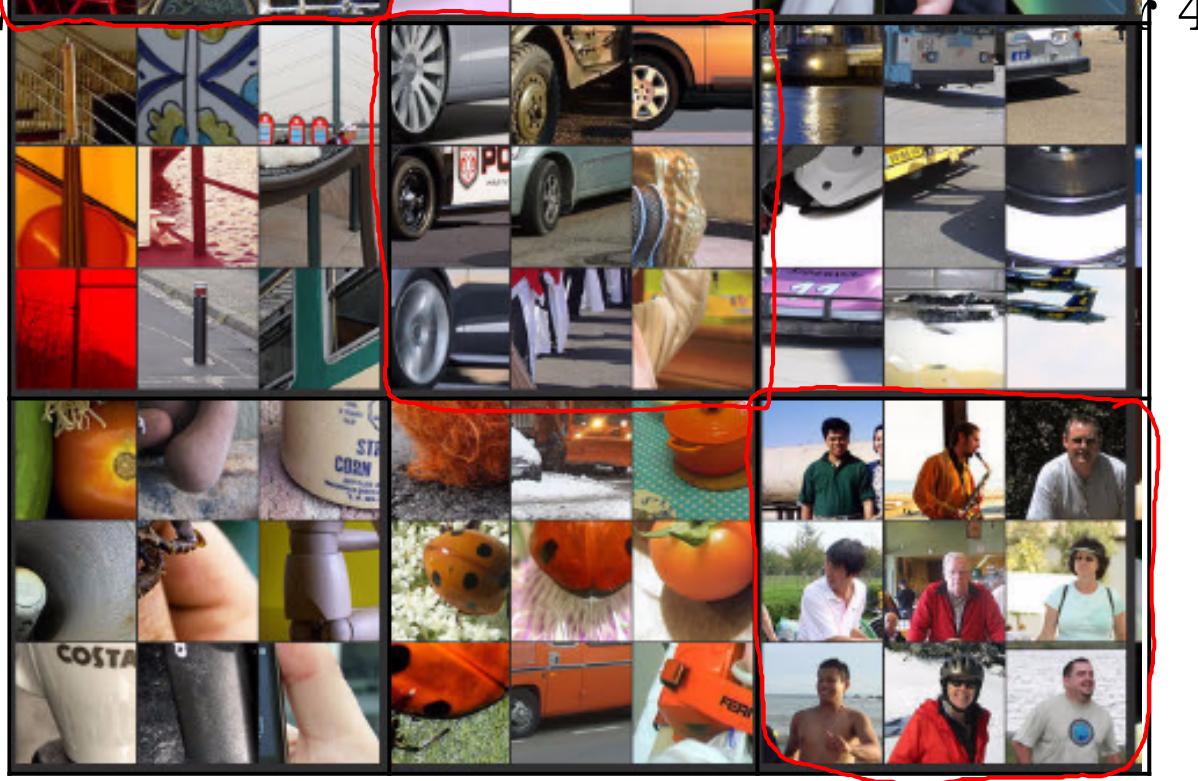
Visualizing deep layers: Layer 3



Layer 1



Layer 2



Layer 3

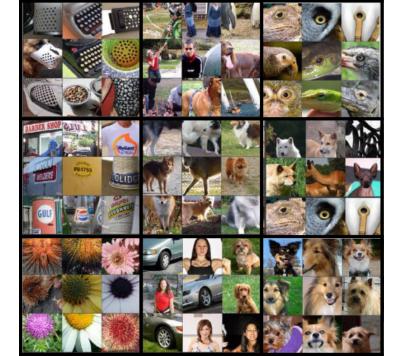
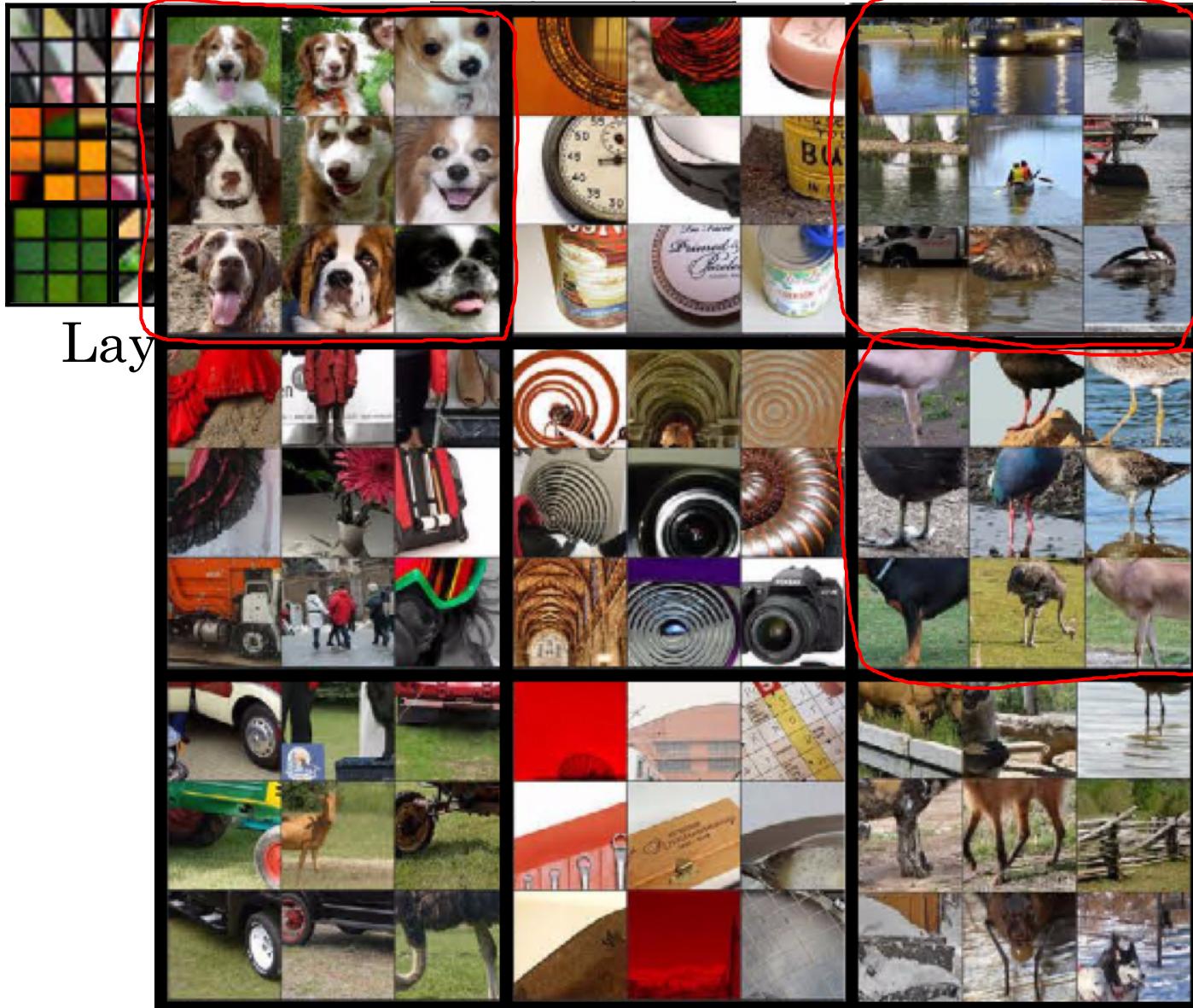


Layer 4



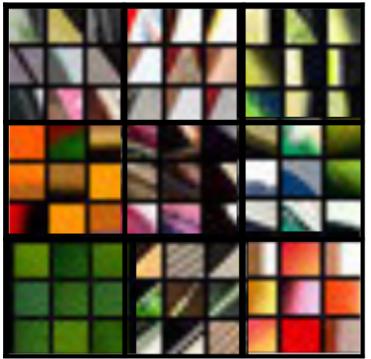
Layer 5

Visualizing deep layers: Layer 4



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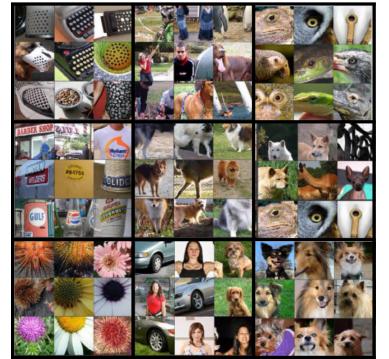
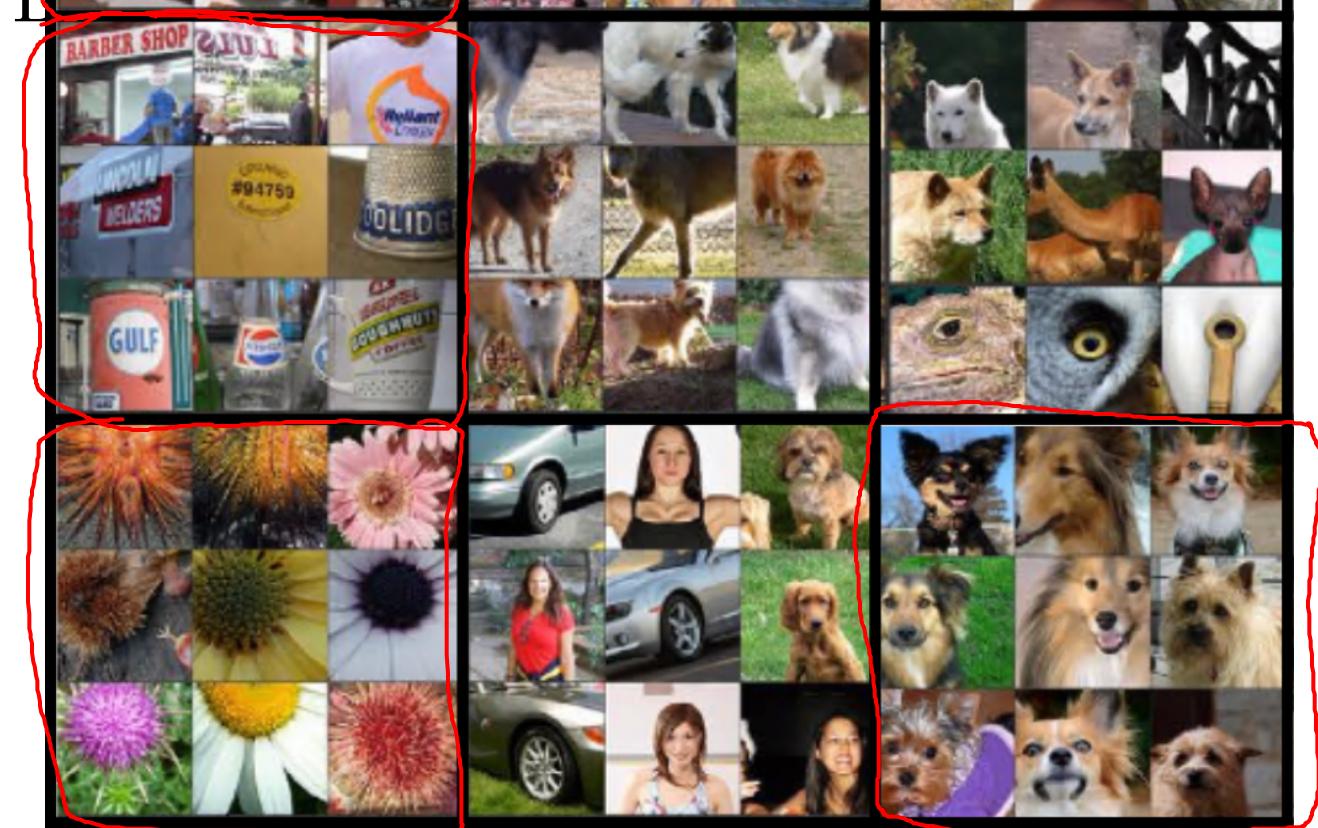
Visualizing deep layers: Layer 5



Layer 1



I



Layer 5