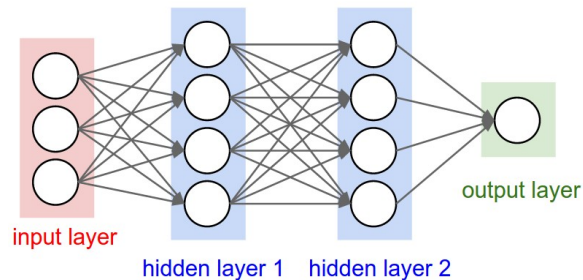
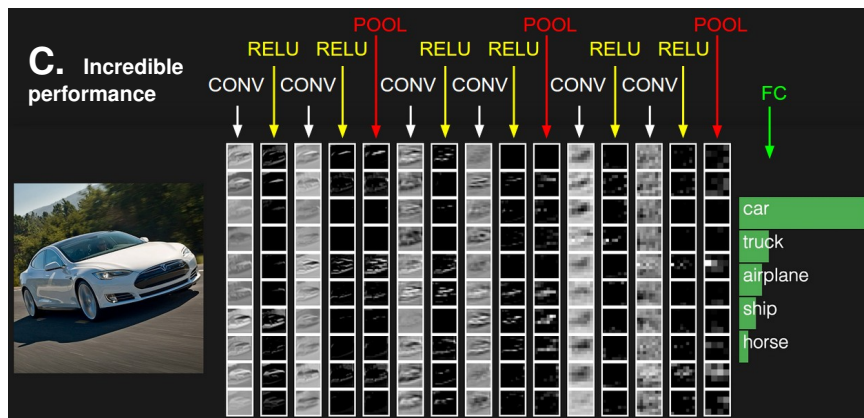
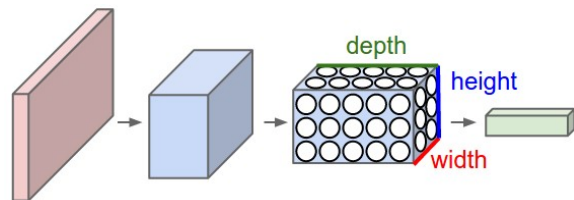


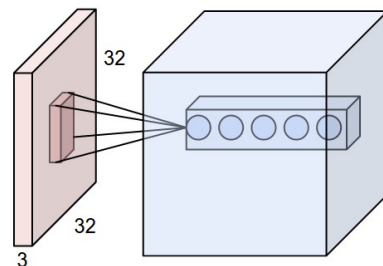
## A. Classical Architecture (fully connected)



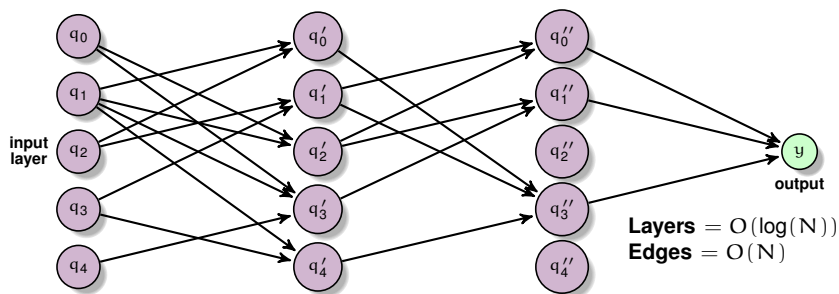
## B. Convolutional NN Architecture (Modified “physics-aware” connectivity to target image data)



Convolutional filters use domain knowledge that nearby pixels are related



## D. “Physics-aware” Squeezenet with pruned structure



- (1) Automatically finds and exploits variable relationships.
- (2) Bakes in prior knowledge in network structure.
- The “Squeezing” algorithm discovers which variables “go together”, and prune the network structure, thus boosting performance in realistic data starved scenarios