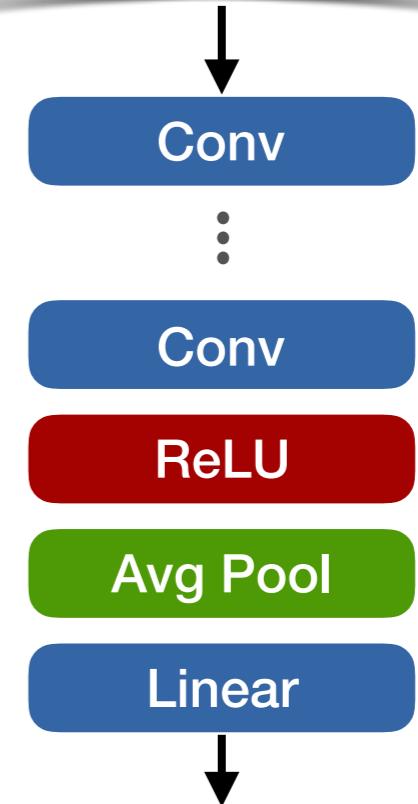


# Learning with an expanding set of labels

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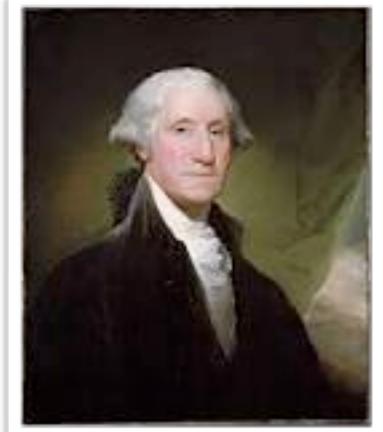
# Recap: Classification

- Collect dataset
- Label dataset
- Train your big model



dog? cat?

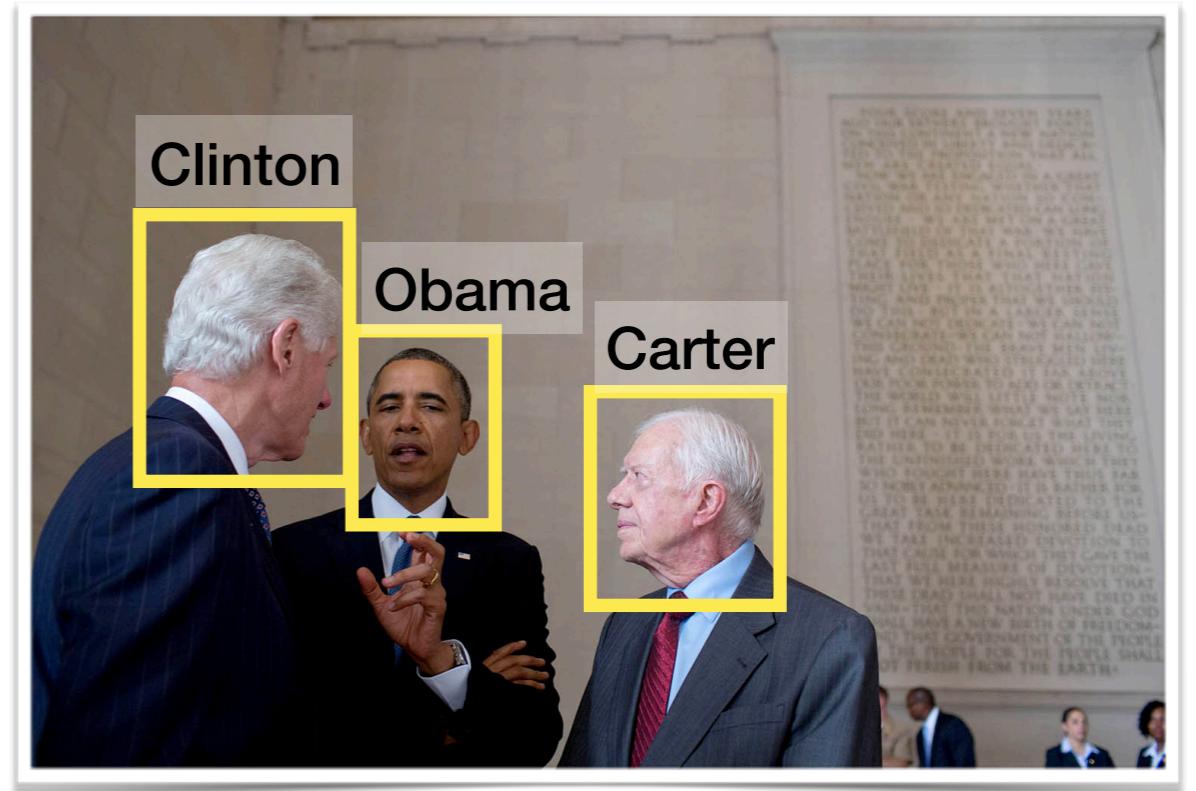
# Example: Face classification



- Classify who is in a picture

Bush      Kennedy      Washington

- Each person is a class



# Issues

- What do we do when we have a new class?
  - Classifier needs to retrain

