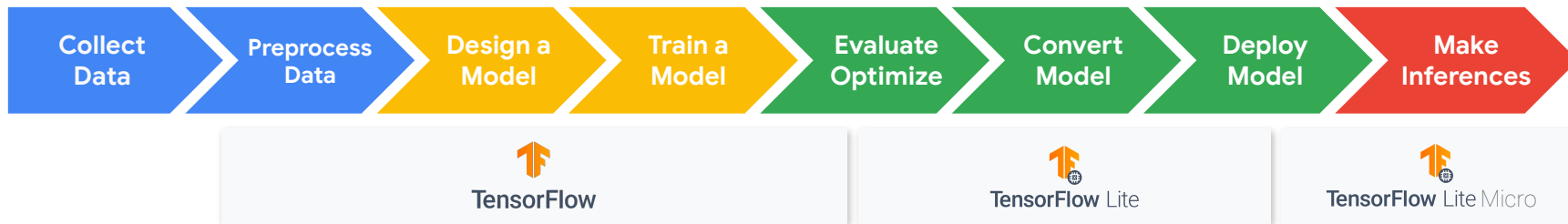


Training *VWW* in Colab

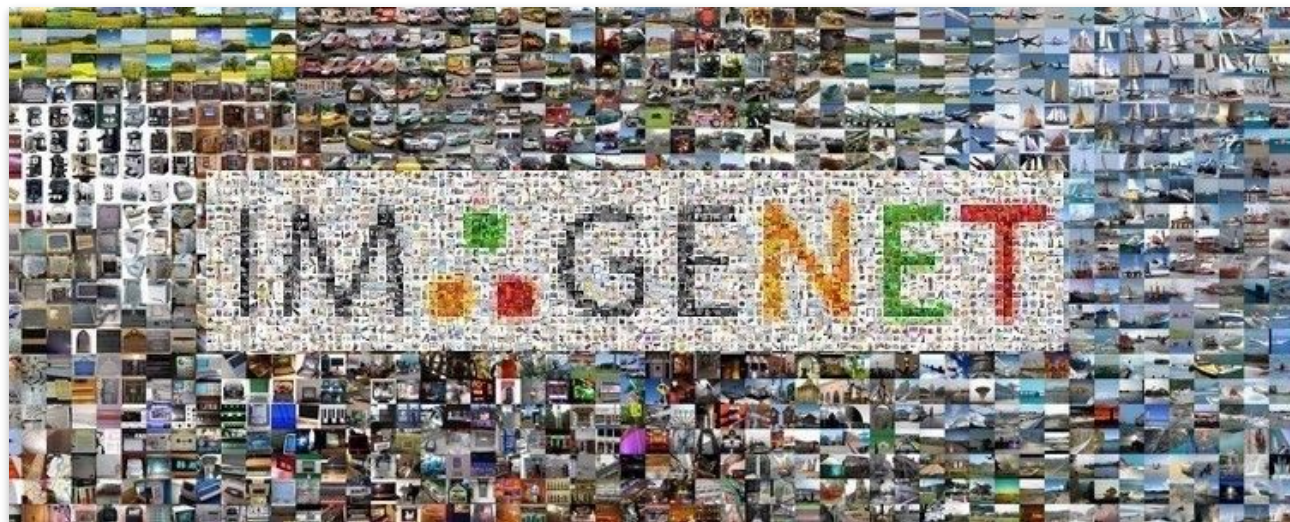
Transfer Learning







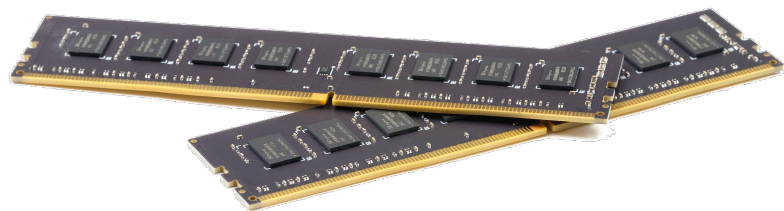
Training Pipeline: **Need Lots of Data**



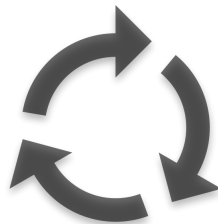
1000 Classes

1000 Images / Class

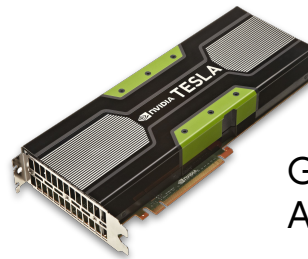
Training Pipeline: Need Compute Resources



Memory



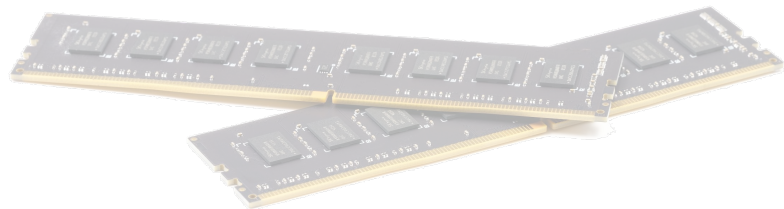
Compute



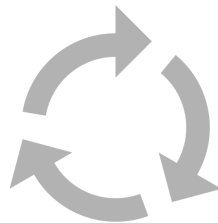
GPU and
Accelerators

Training Pipeline: Need Compute Resources

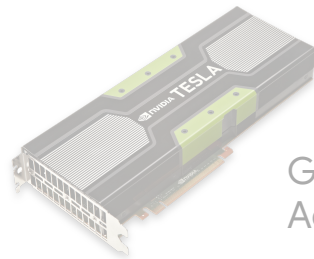
*Computationally Intensive
Repeated Many Times (Epochs)*



Memory

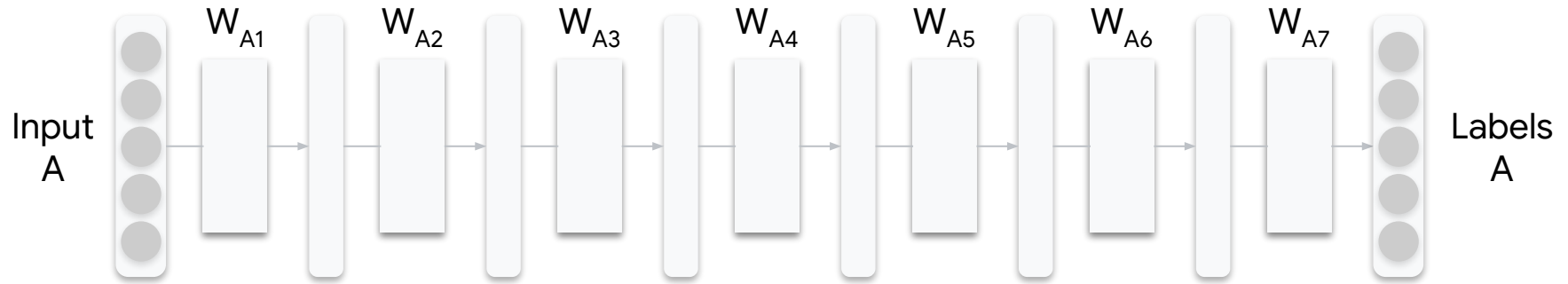


Compute

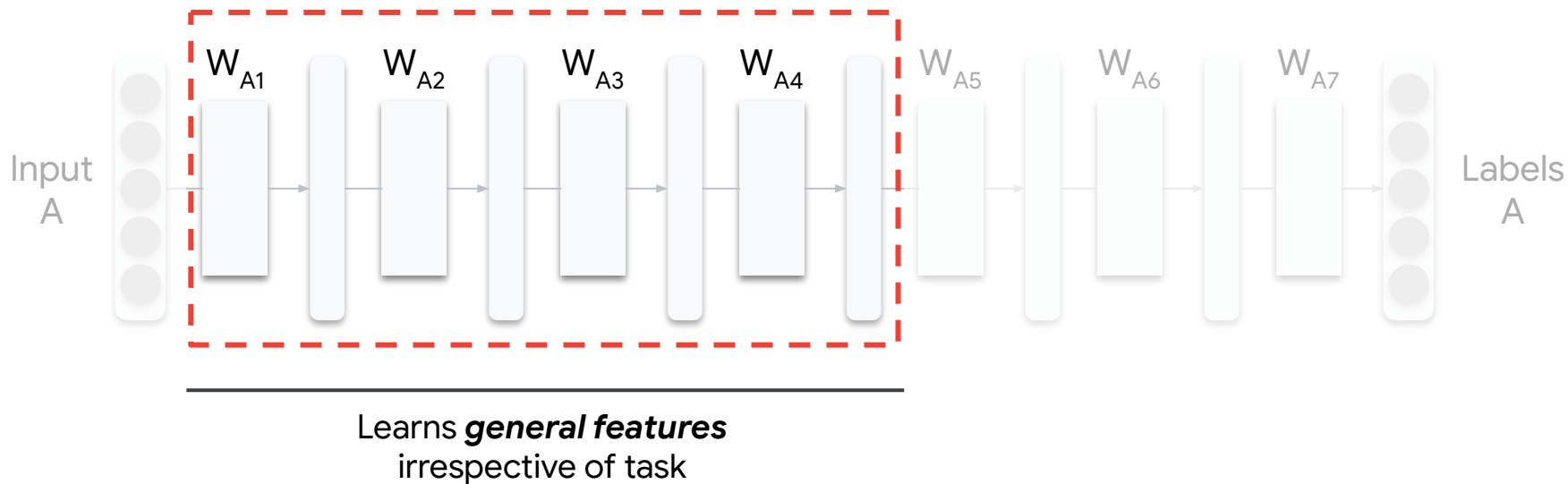


GPU and
Accelerators

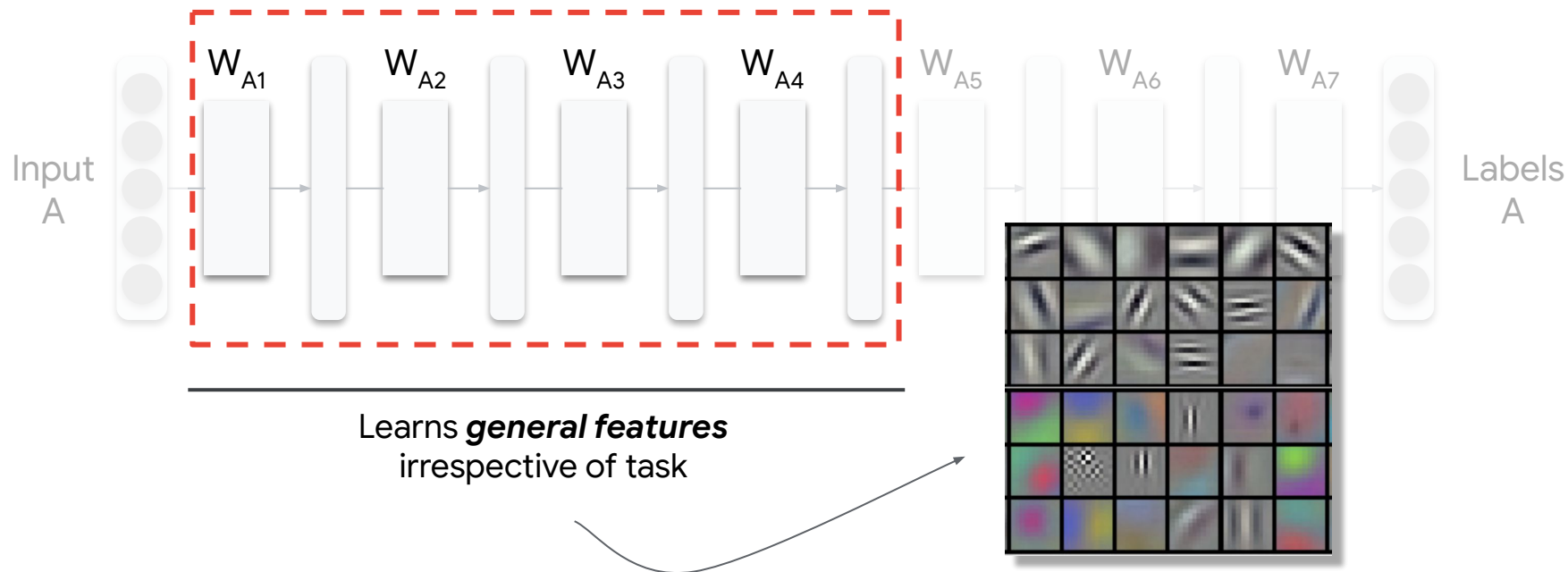
End Result of Training



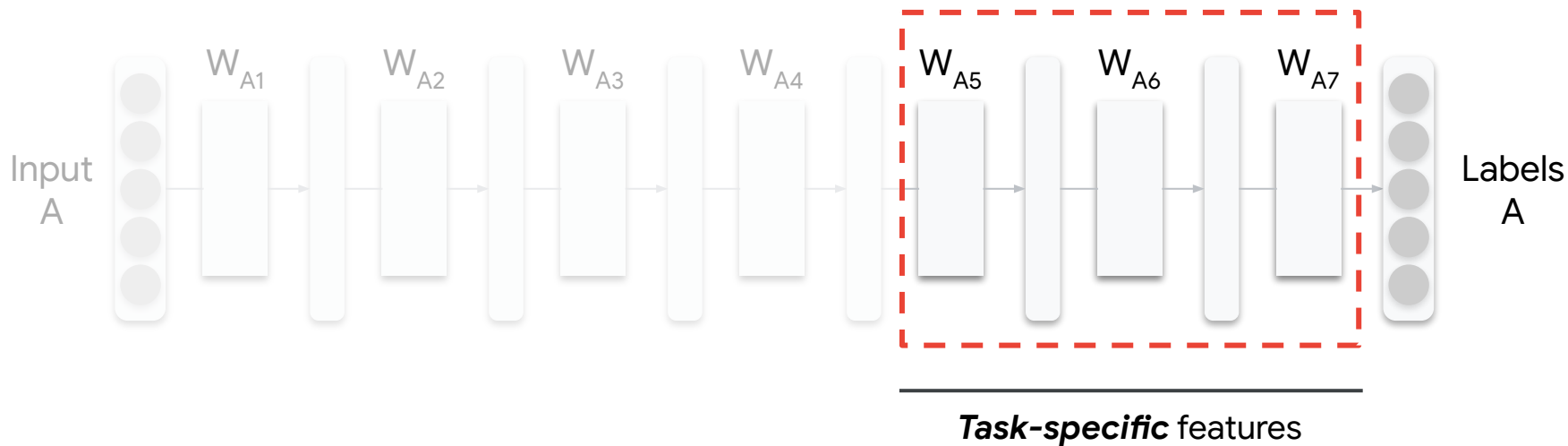
End Result of Training



End Result of Training

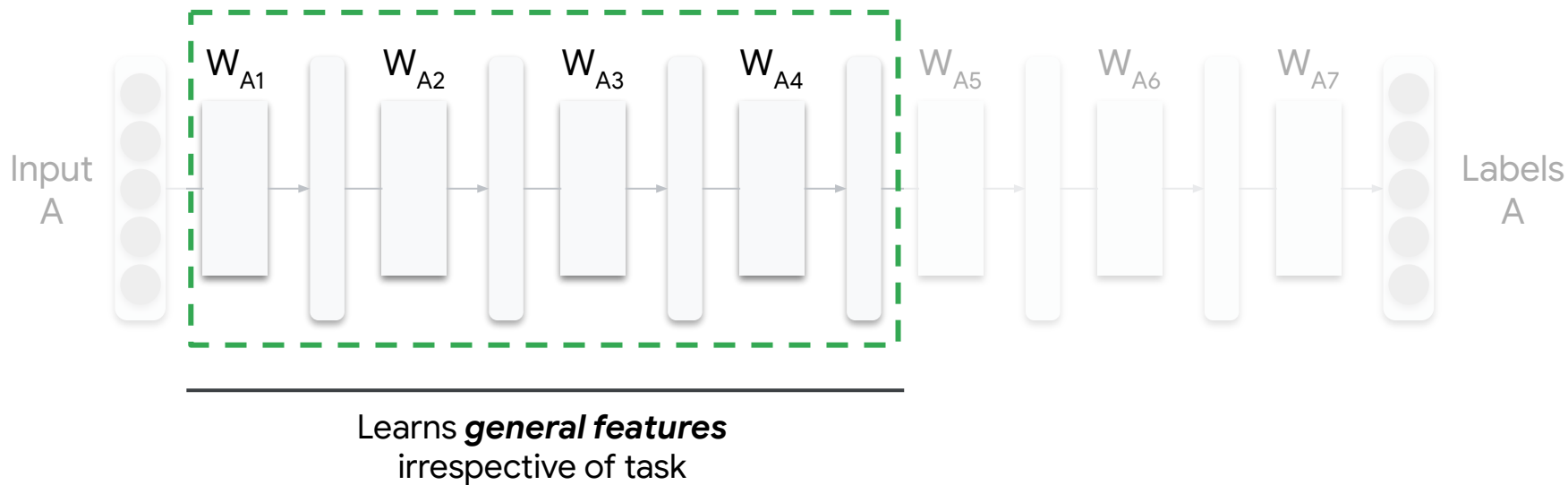


End Result of Training

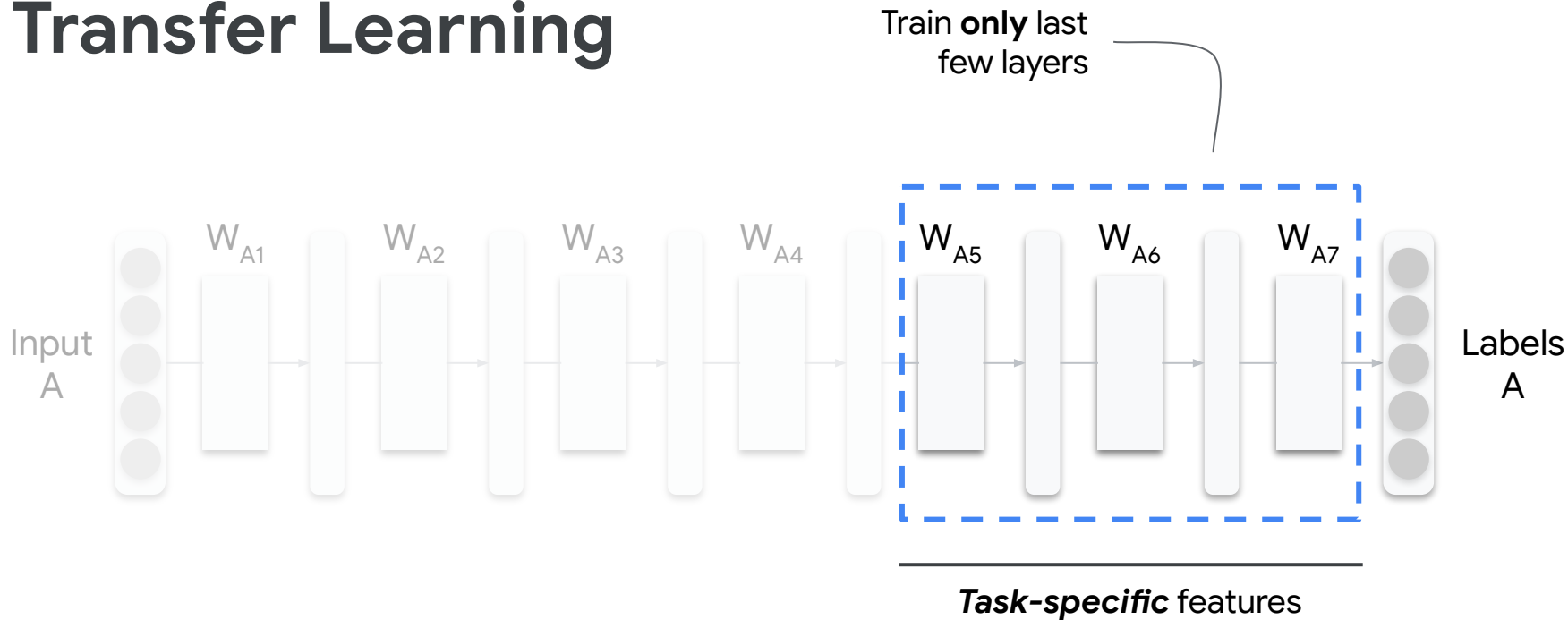


Transfer Learning

Reuse (freeze general
feature extraction)

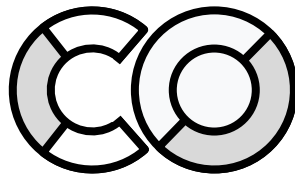


Transfer Learning



Transfer Learning

TensorFlow Example



Reuse (freeze general
feature extraction)

Train **only** last
few layers

