

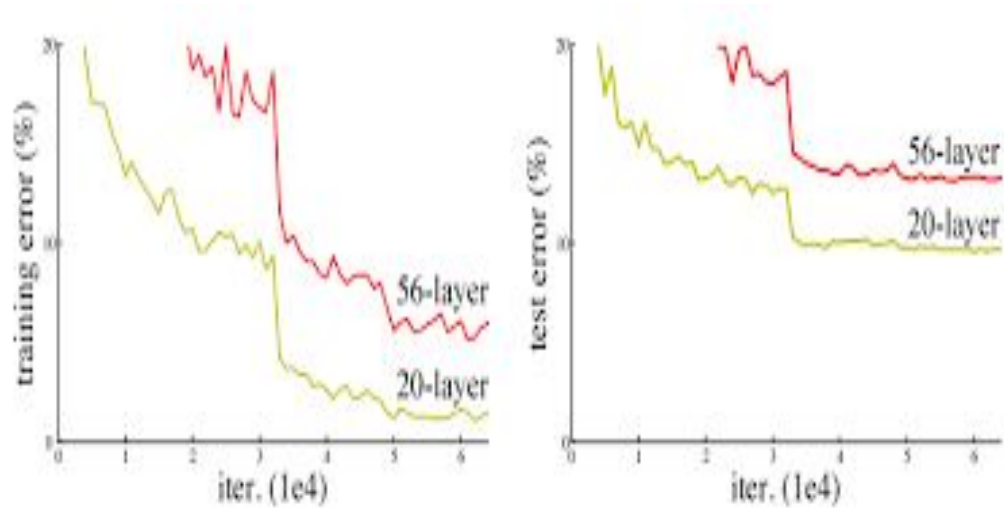
# Lawrence Moruye Resnet



# Core Idea

- When deeper networks starts converging, a degradation problem has been exposed
- As depth increasing, accuracy gets saturated and then degrades rapidly.

# Core Idea

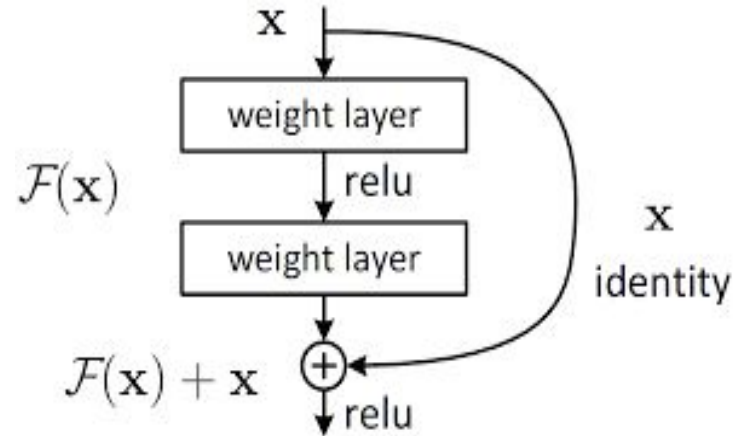


# Core Idea

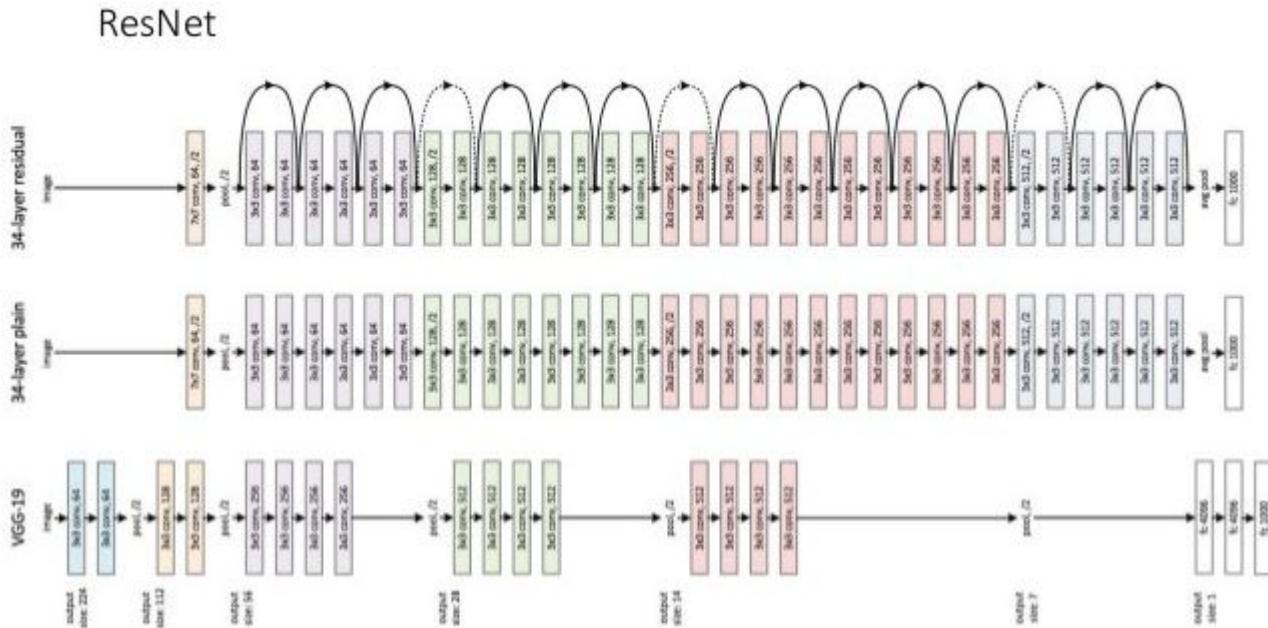
- Network using more layers doing less well than a network using fewer layers
- It wasn't just a generalization issue, but training issue

# Residual Block

Residual mapping

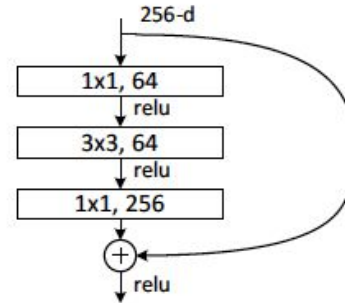
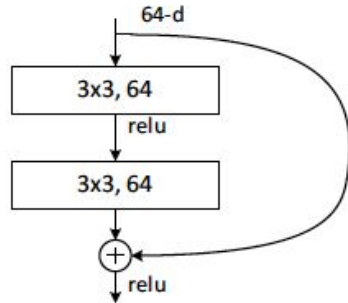


# Paper Implementation

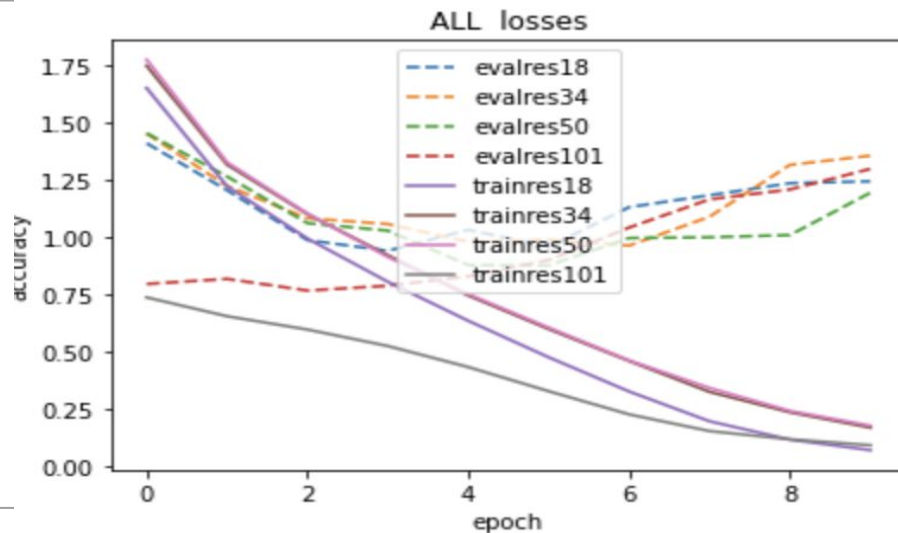
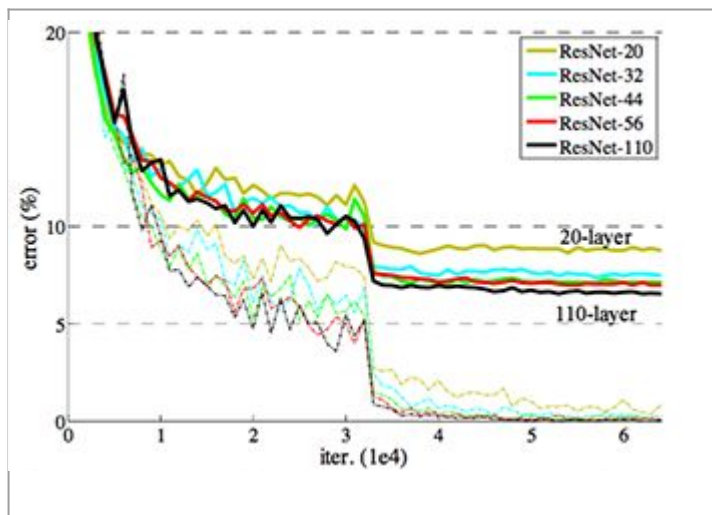


# Paper Implementation

- 1.simple design
- 2.Bottleneck design



# Experimentation and results





# Over 1000 Layers

Testing result on 1202-layer network was worse than that of our 110-layer network. Argued this could be because of overfitting.



Thank you

