



# IN AIR



Designed by Alex Krizhevsky, Ilya Sutskever, and Geoffrey Hinton in 2012



Alex Krizhevsky



Ilya Sutskever

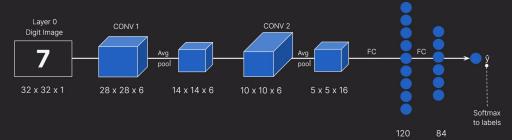


**Geoffrey Hinton** 



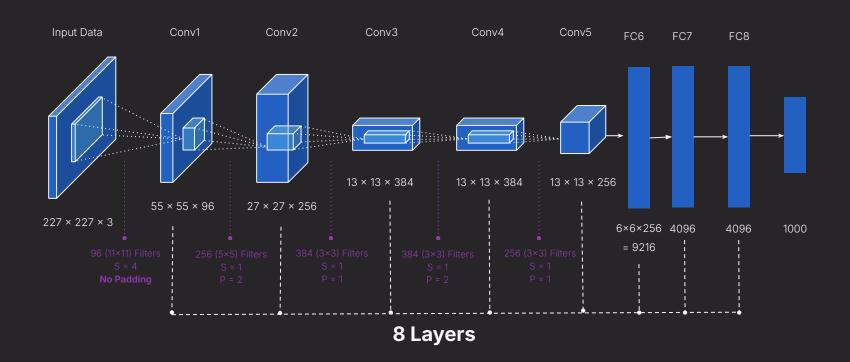
AlexNet





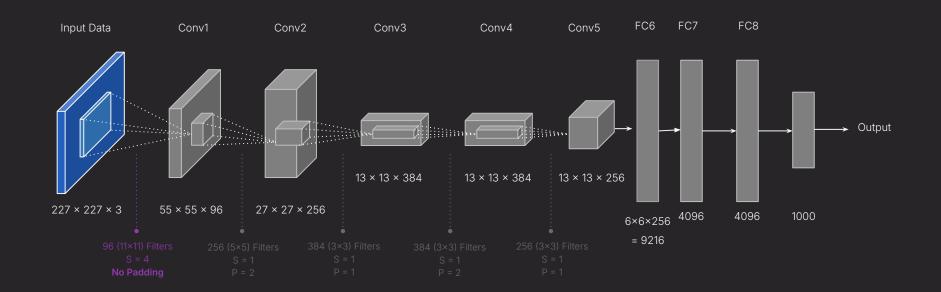


• Leverages deeper architecture with 8 layers.





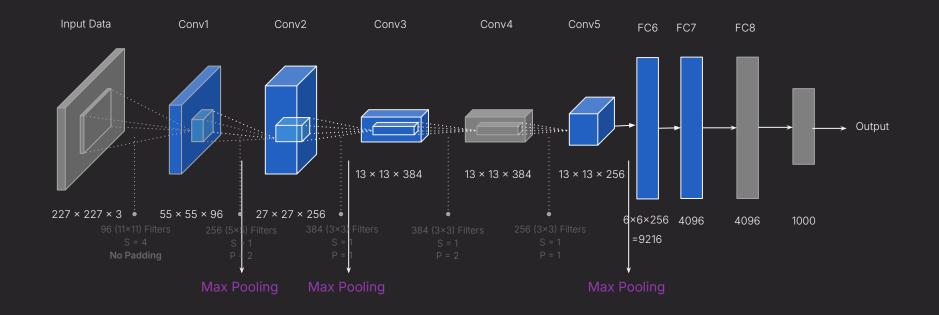
Process 227 × 227 pixel images in full RGB color.





#### **AlexNet: Distinct Features**

Uses max pooling for preserving features better.

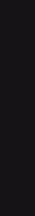


# **AV Luminary Awards**



Top 5

Gen Al Leaders



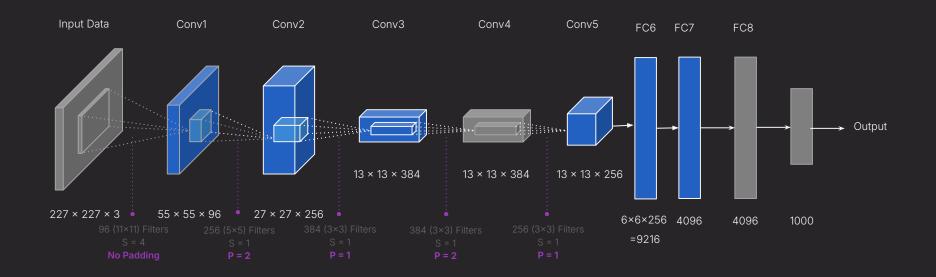






#### **AlexNet: Distinct Features**

Uses max pooling for preserving features better.





#### **AlexNet: Distinct Features**

- **ReLU Activation:** Used ReLU compared to tanh and sigmoid used in LeNet.
- **Dropout:** Randomly drops 50% of neurons in FC layers during training to reduce overfitting.
- Advent of GPUs: Exploited multiple GPUs for training, reducing computational time.

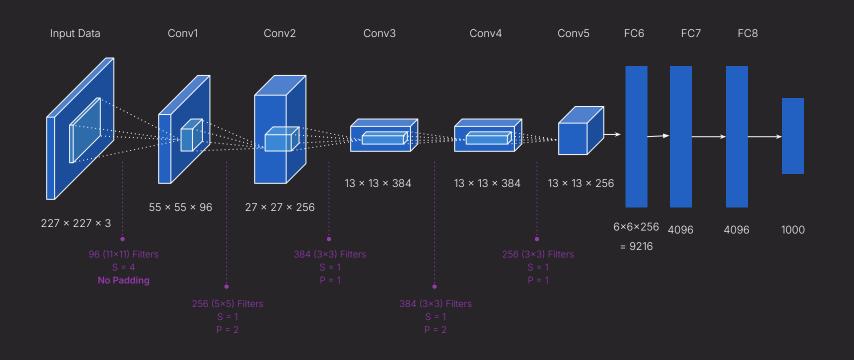
Won the 2012 ImageNet challenge.



## **After Hands on**

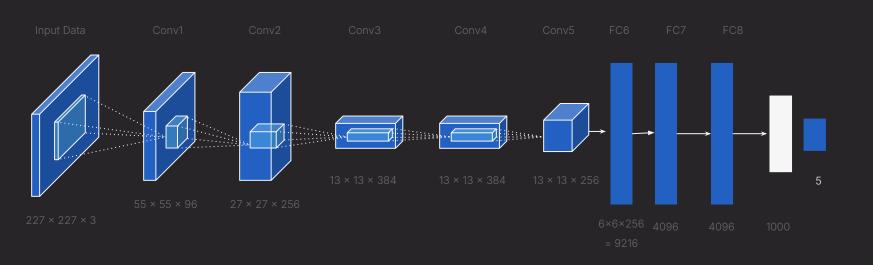


## **AlexNet Reference Image (Do not delete)**





## AlexNet Reference Image (Do not delete)





## AlexNet Reference Image (Do not delete)

