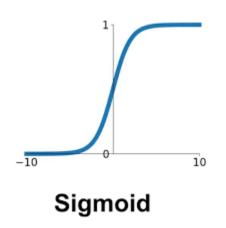
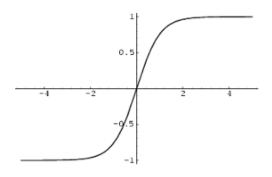
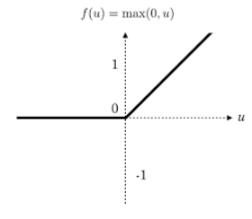
Activation Function

What is the difference?

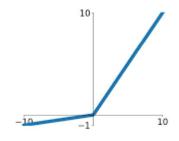


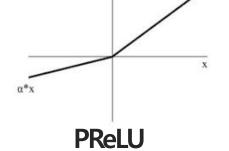




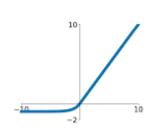
Hyperbolic Tangent

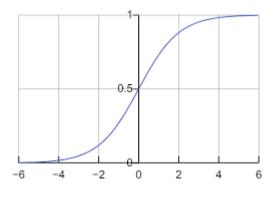
ReLU





Exponential Linear Units (ELU)

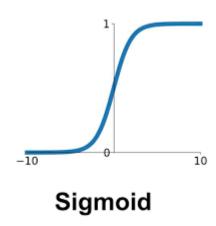


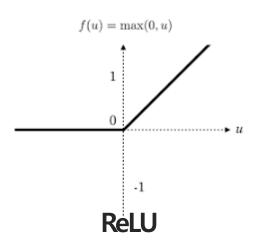


SoftSign

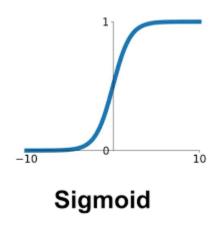
Leaky ReLU

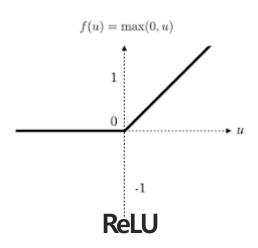
Symmetry



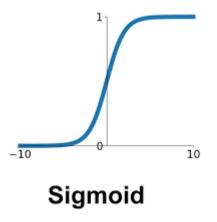


Pros and Cons?





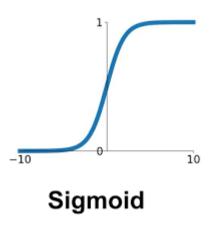
Sigmoid



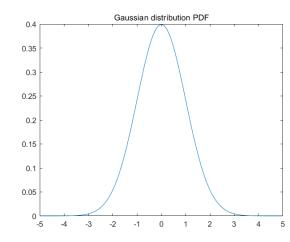
Pros : Symmetry

Cons: Gradient Vanishing

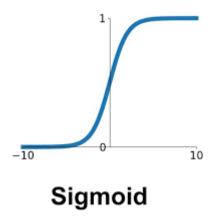
Why is Symmetry an advantage?

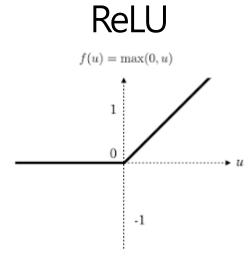


The Gaussian Distribution



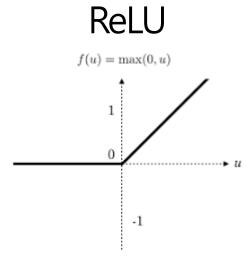
Why is gradient vanishing a disadvantage?





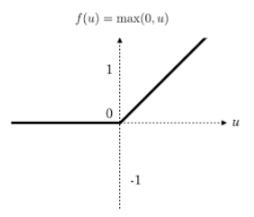
Pros: Fast Caculation, reduce GV

Cons: Baised, Dying ReLU

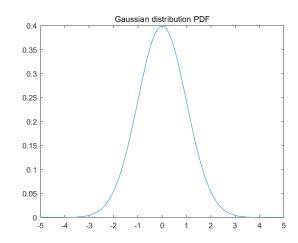


ReLU Gradient:

ReLU



Baised



We can think of two things

Frist, biased

Second, gradient Vanishing

How do you solve it?

We can think of two things

Frist, biased

Second, gradient Vanishing

How do you solve it?

감사합니다 THANK YOU