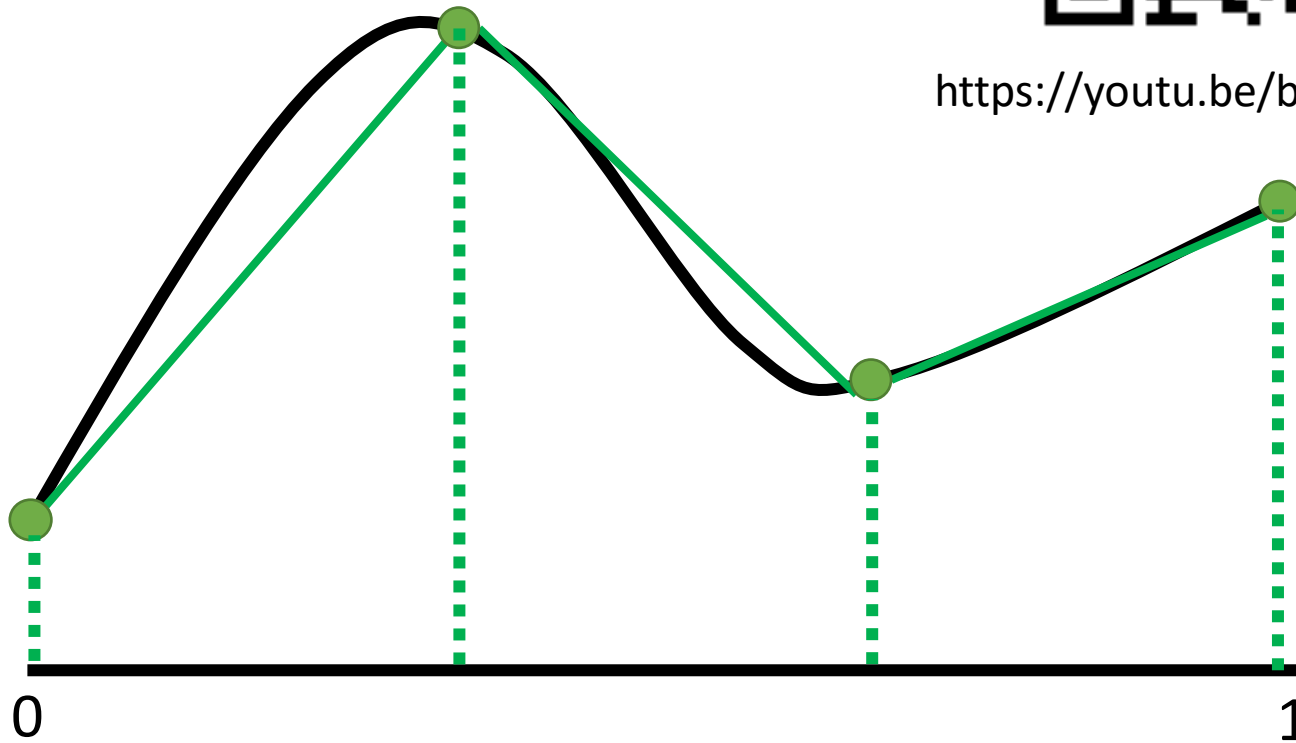


Piecewise Linear

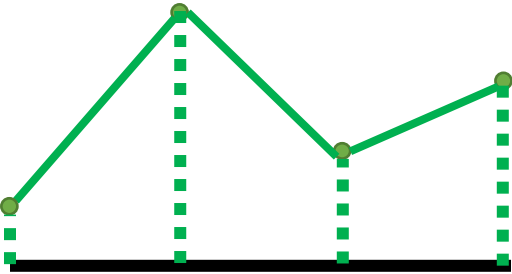


<https://youtu.be/bHcJCp2Fyxs>

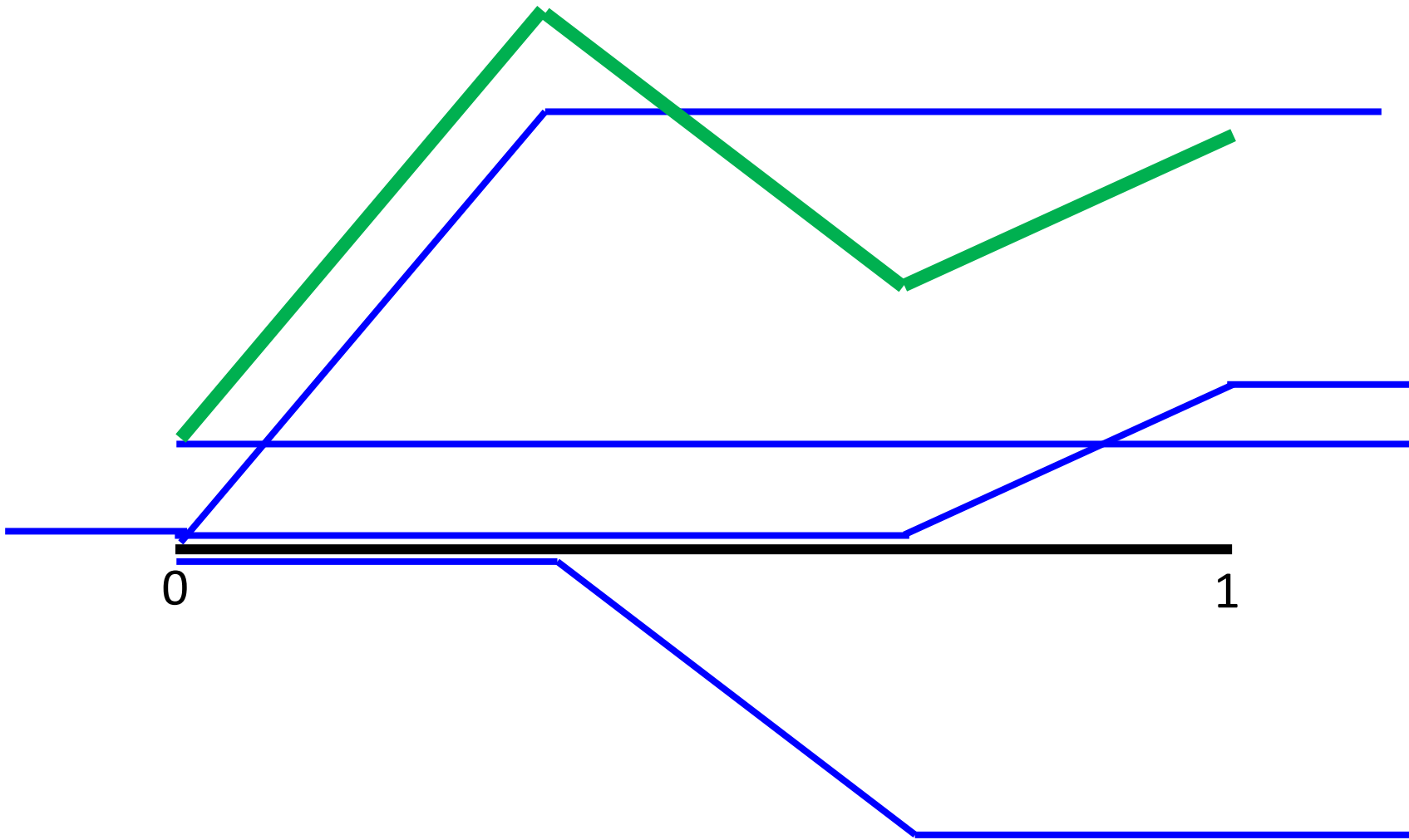


We can have good approximation with sufficient pieces.

piecewise
linear



= constant +
sum of a set of

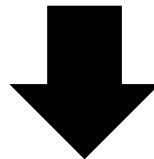


Piecewise linear = constant + sum of a set of



How to represent
this function?

Hard Sigmoid



Sigmoid Function

$$y = c \frac{1}{1 + e^{-(b + wx_1)}}$$

$$= c \operatorname{sigmoid}(b + wx_1)$$

