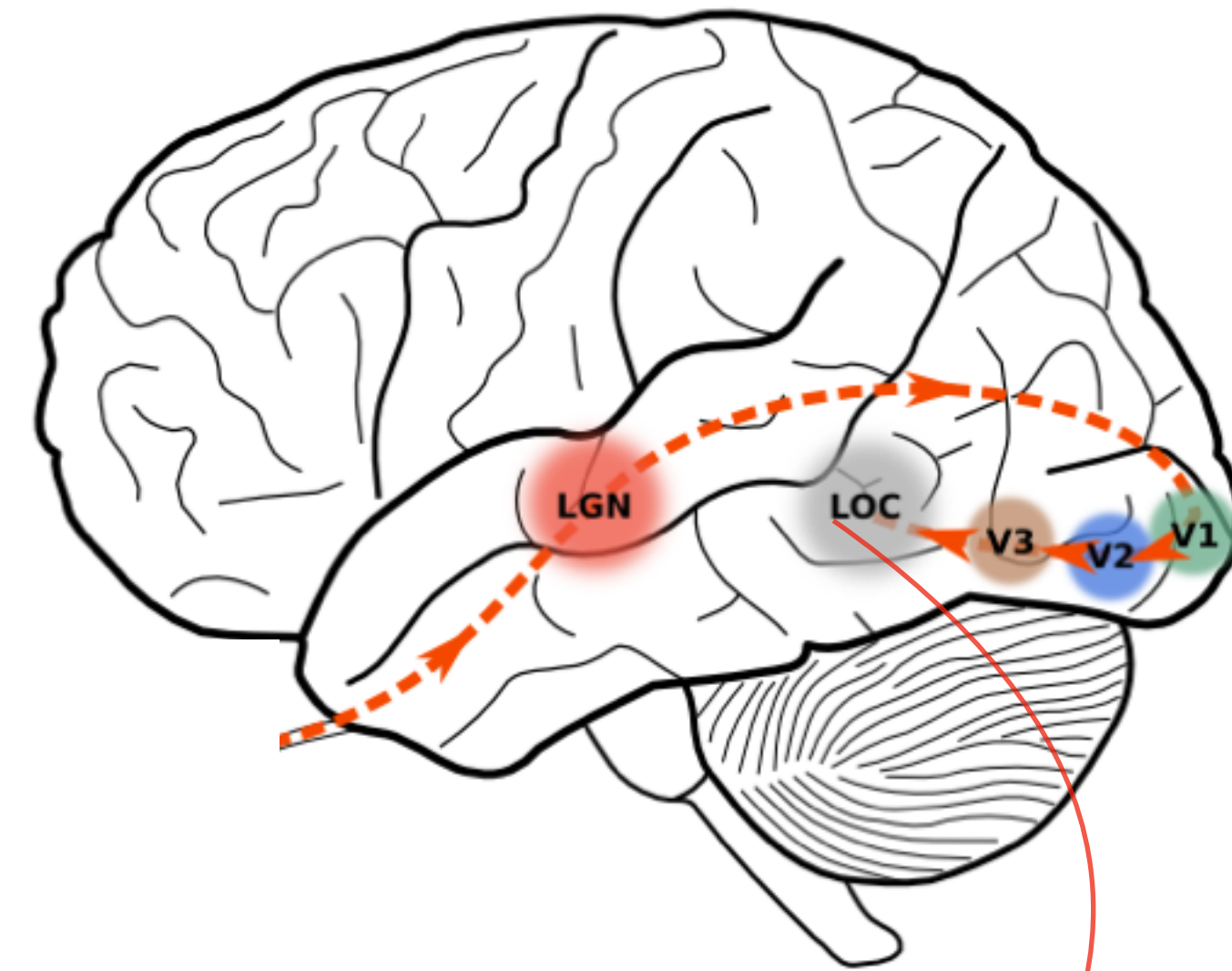# Language Modeling Part II: Neural language modeling

Neural networks: inspiration from biology

sensory stimuli

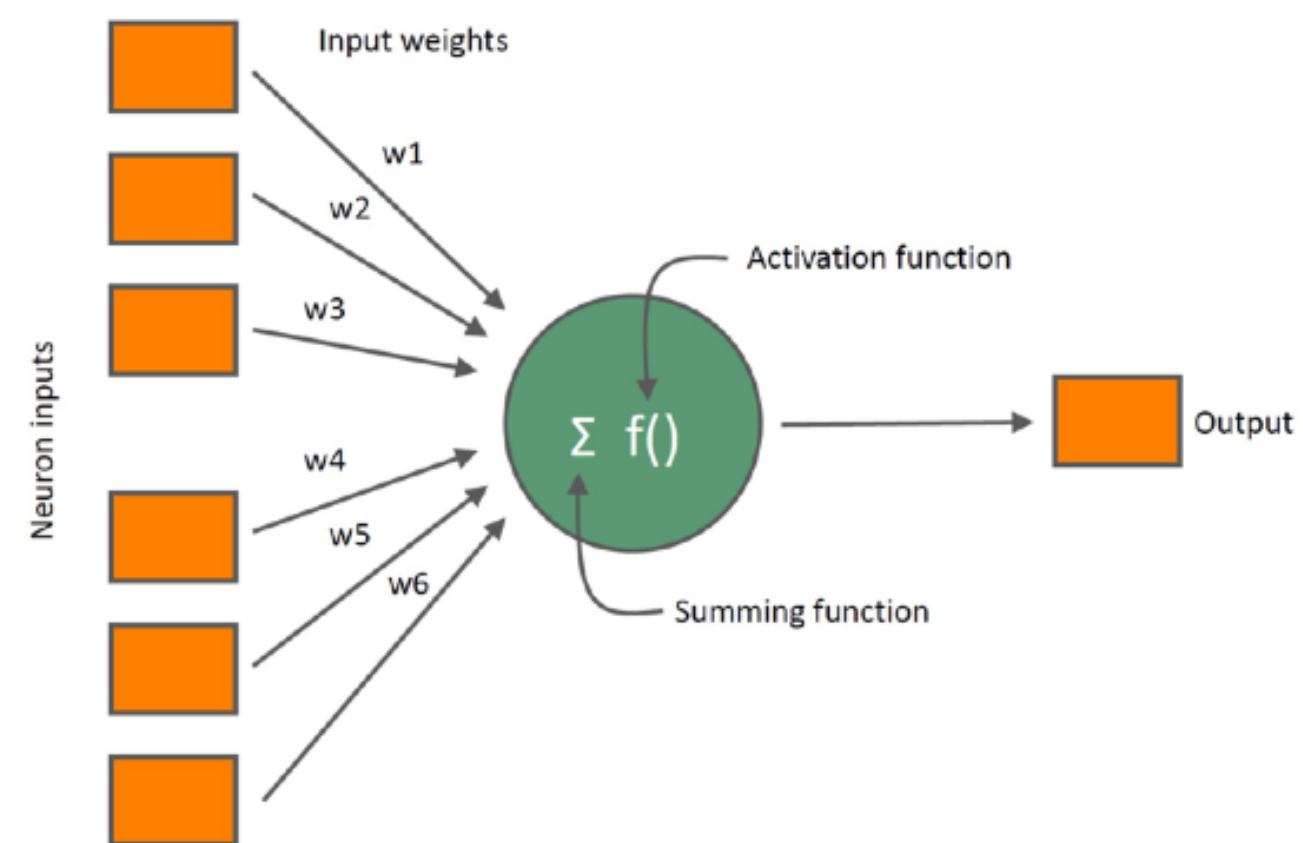**Human Brain**: network of a highly connected neurons

LGN   LOC   V3   V2   V1

Artificial neuron

Input weights

Neuron inputs

w1
w2
w3
Activation function
w4
w5
w6
Σ f()
Output
Summing function

≈

Biological neuron

Dendrites

Nucleus

Axon

Cell body

Synapse