Capsule Network

Image

Convolutional Layers

d Feature Maps

First Capsule Layer

d Feature Maps

d Feature Maps

Organize activations into capsules.

First Capsule Layer

Depth = d

Depth = d

Depth = d

Routing by Agreement

Second Capsule Layer

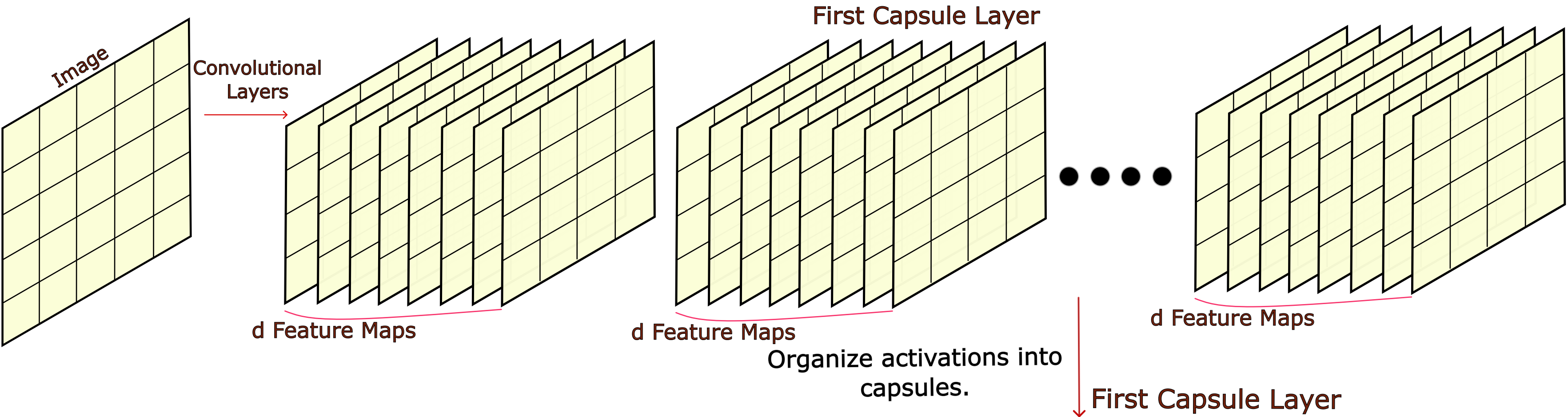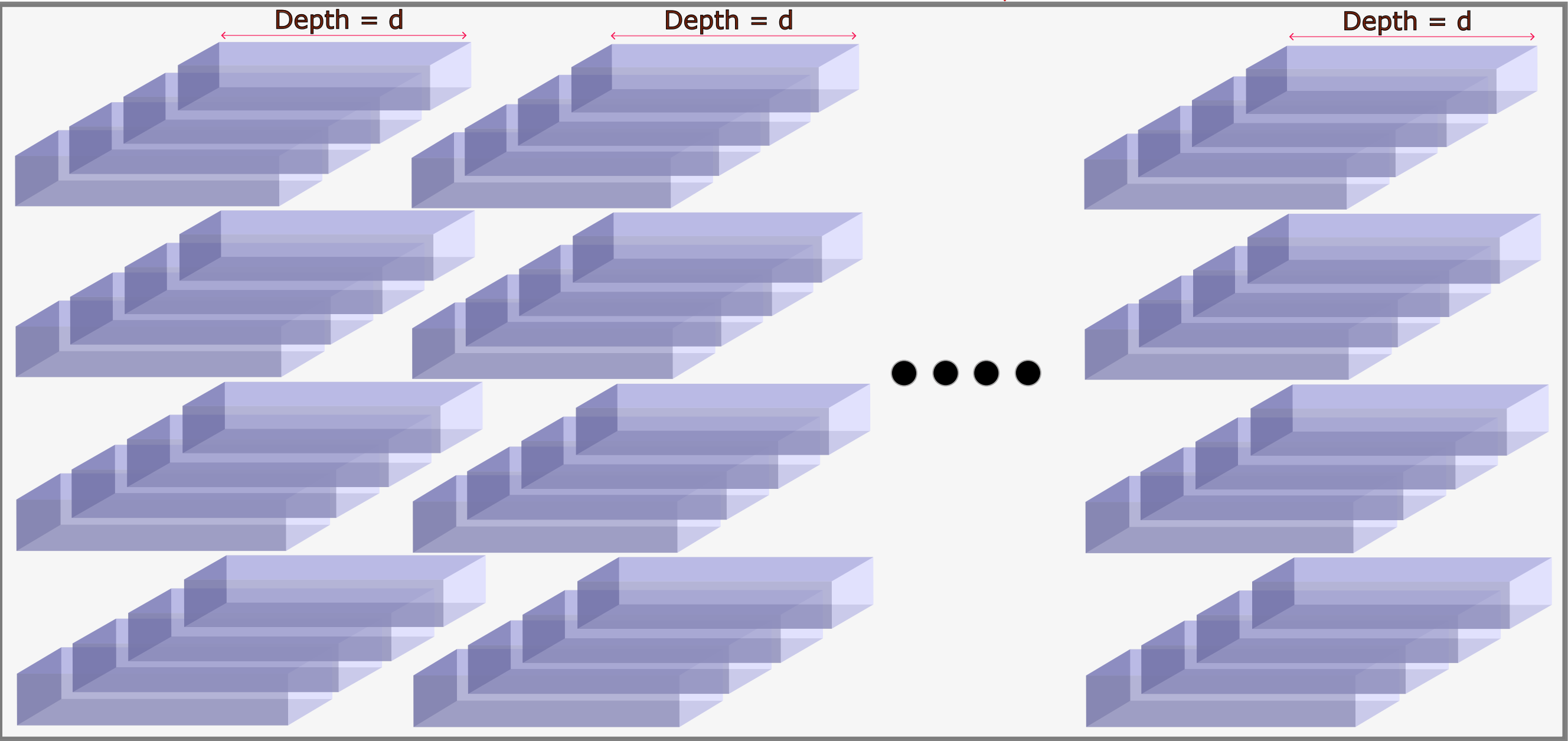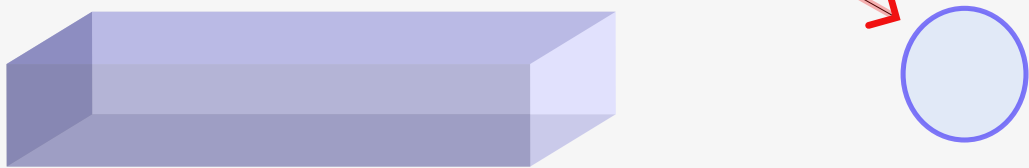D Depth of Capsule Layer

Each capsule is represented here as a placeholder of a vector m comprised of d values. We assume that the activation probability is encoded in the vector's length. Otherwise, we would have also a separate logistic unit for each capsule.