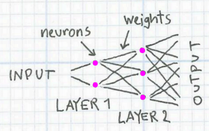
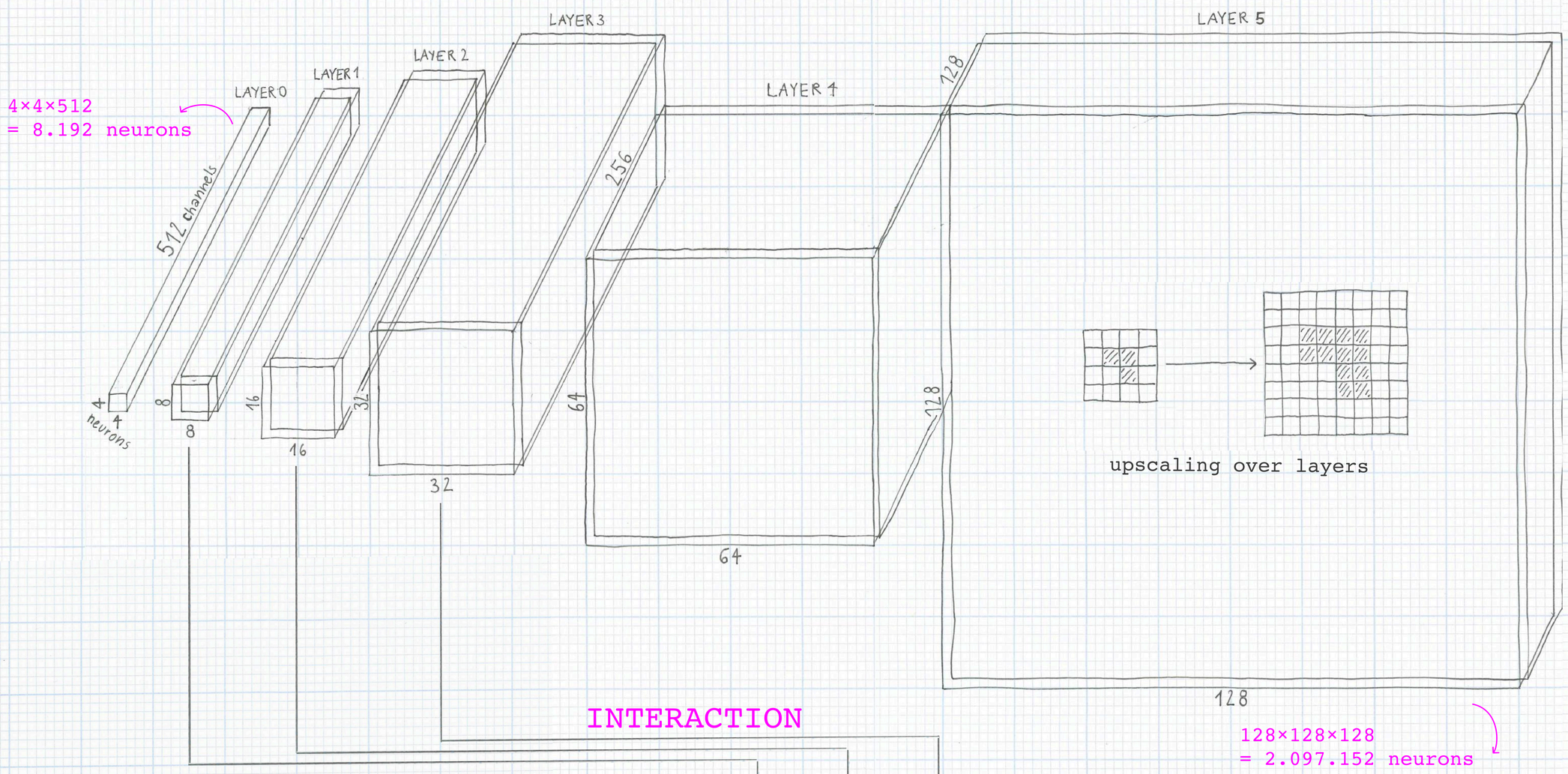
HIDDEN LAYERS

INTERACTING WITH THE NEURAL SEMANTICS OF IMAGE SYNTHESIS

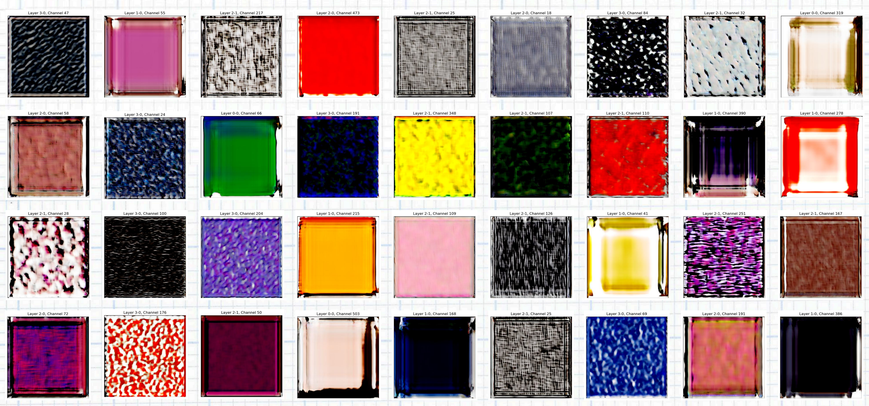
Imke Grabe, Jaden Fiotto-Kaufman, David Bau, Tom Jenkins



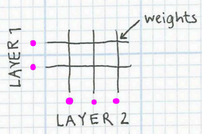


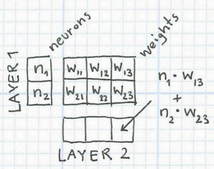
INTERACTION

PALETTE OF NEURAL SEMANTICS

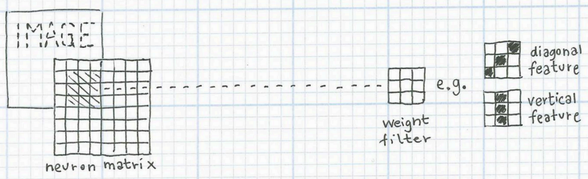


Neurons capture various semantics based on the network's convolutions:

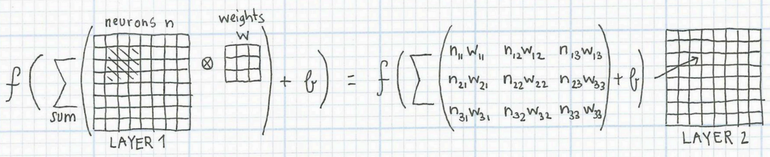




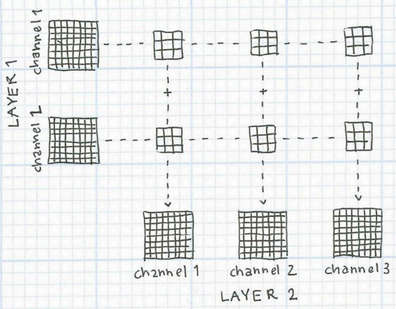
Matrix arrangement reveals the multiplication.



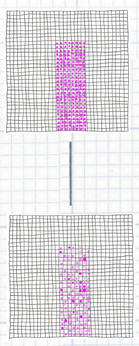
By arranging neurons and weights spatially...



...they learn to create various semantic features in parallel channels.

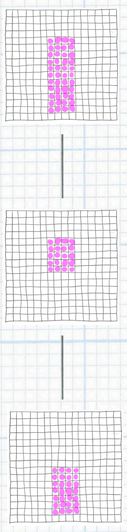


32×32 neurons



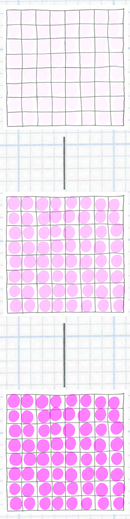
Texturing with neural activation

16×16 neurons

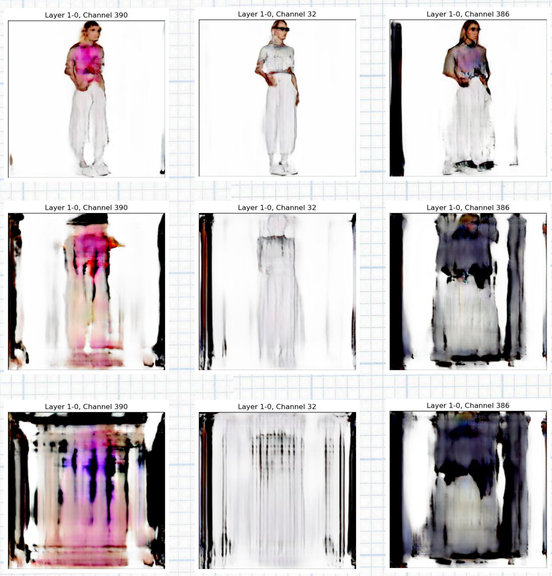


Local editing with neurons

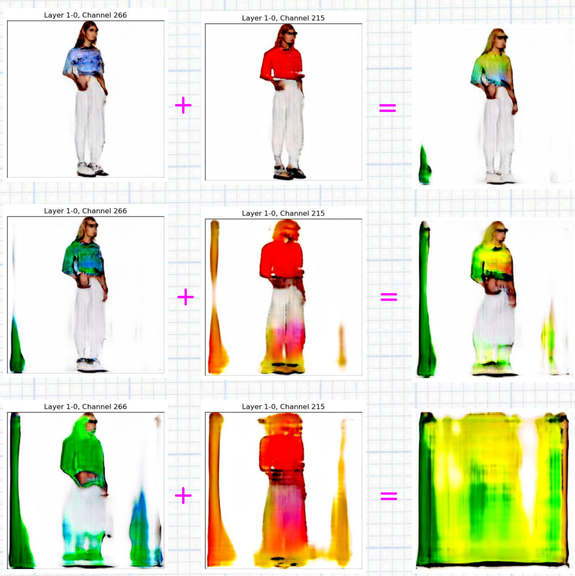
8×8 neurons



Increasing activation



Combining neurons



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