UNIVERSITY OF OXFORD

Saïd Business School

The Power of Learned Numerical Representations

- StyleGan represents pictures with special lists of numbers. The different sets of numbers encode different visual qualities (styles).

- I can average numbers. Does this mean I can "average" pictures? Yes!

NikeGan

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The Style in StyleGan

- Can we get get it to stylize things the way we want?

  - Not perfectly, but we're getting there. Some examples below.

  - Notice how colors change with the shape and black is always one of them

| Color blocking | Top shape | Vertical thickness | Top height |