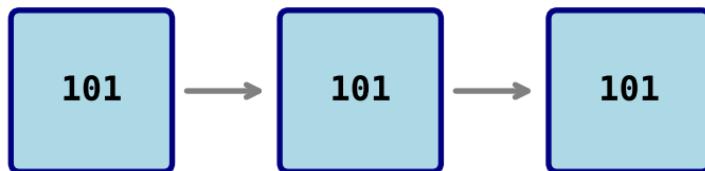


# INFORMATION

# GEOMETRY

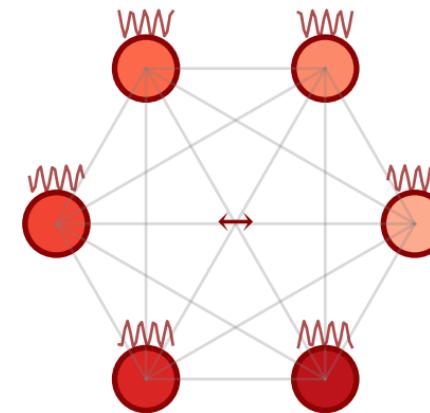


*Substrate-independent*

Can be copied without loss

Shannon entropy, bits, facts

Examples: genome sequence, weights, database



*Substrate-dependent*

Must be instantiated & maintained

Constraint manifold, cross-scale coupling

Examples: living cell, beating heart, neural dynamics