

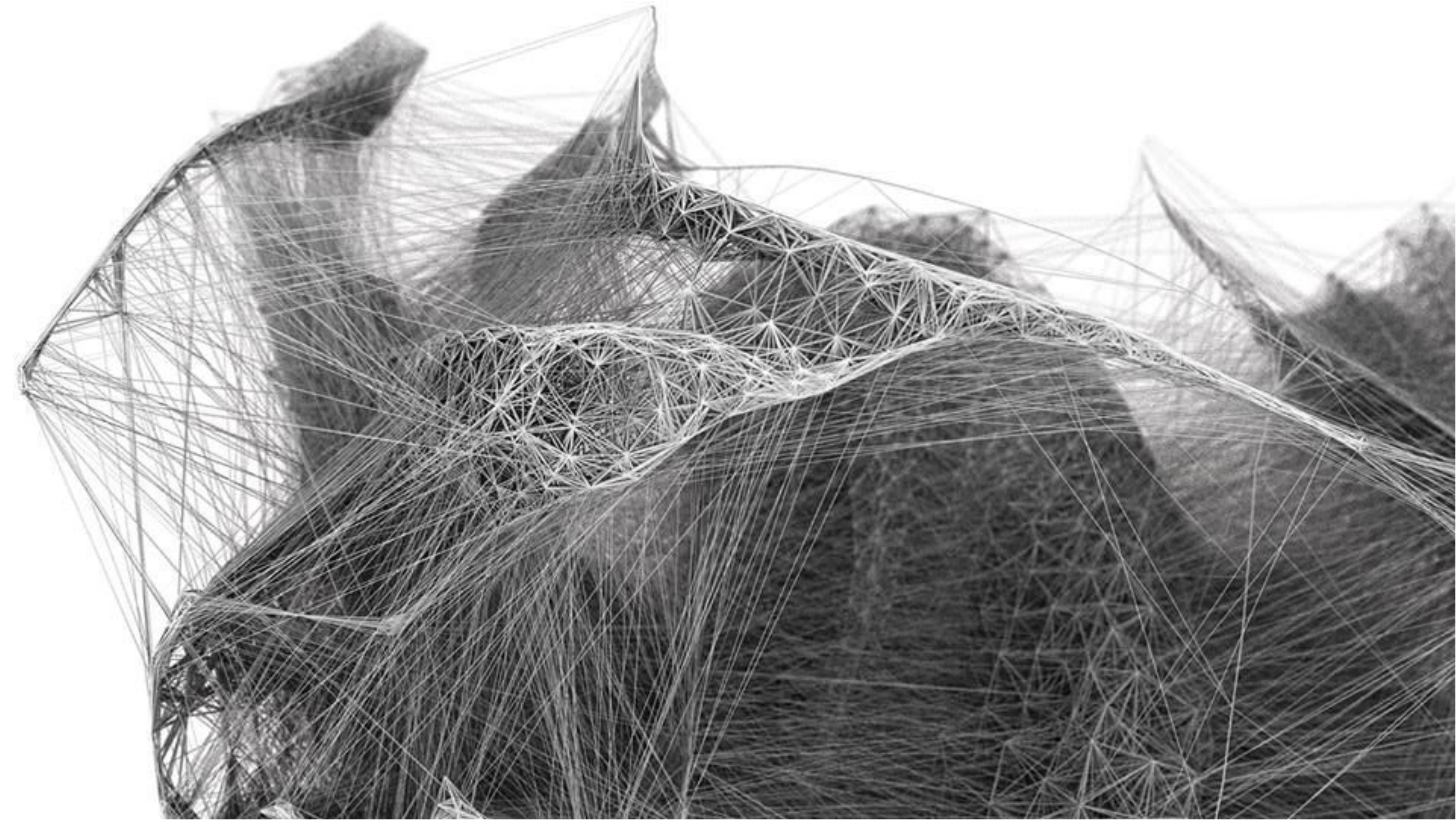




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**-Nodes (point, vertex)**

Connections between nodes (line, side, branch, arrow, wedge)

composition  $\equiv$  topology

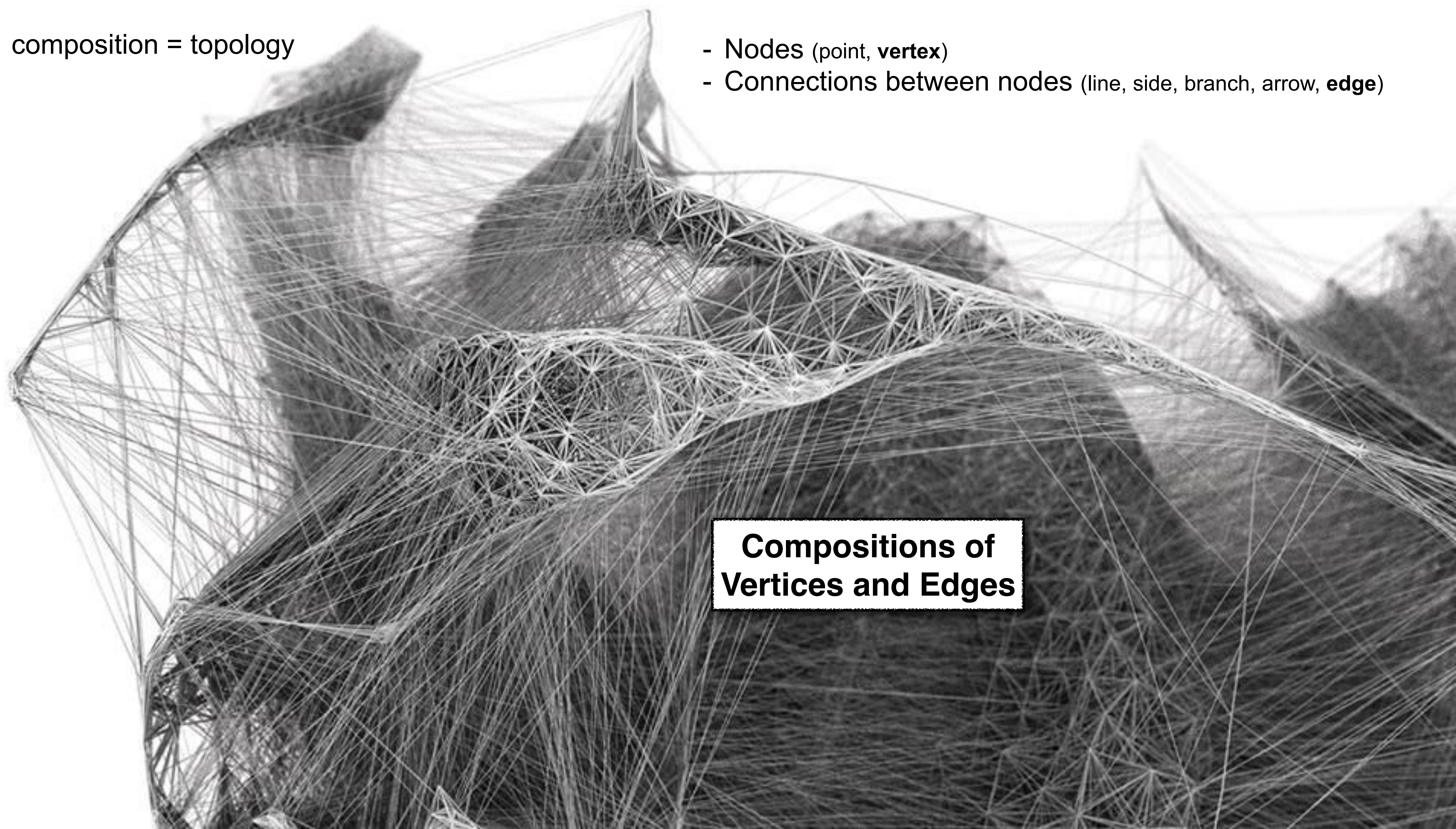
# Compositions of Vertices and Edges



composition = topology

- Nodes (point, **vertex**)
- Connections between nodes (line, side, branch, arrow, **edge**)

**Compositions of  
Vertices and Edges**





Graph

Formal

Adjacency matrix

	v1	v2	v3	v4	v5	v6	v7	v8
v1	0	1	0	0	1	1	1	0
v2	1	0	1	0	1	0	0	1
v3	0	1	0	1	1	0	0	0
v4	0	0	1	0	1	0	1	1
v5	1	1	1	1	0	1	1	1
v6	1	0	0	0	1	0	1	1
v7	1	0	0	1	1	1	0	1
v8	0	1	0	1	1	1	1	0