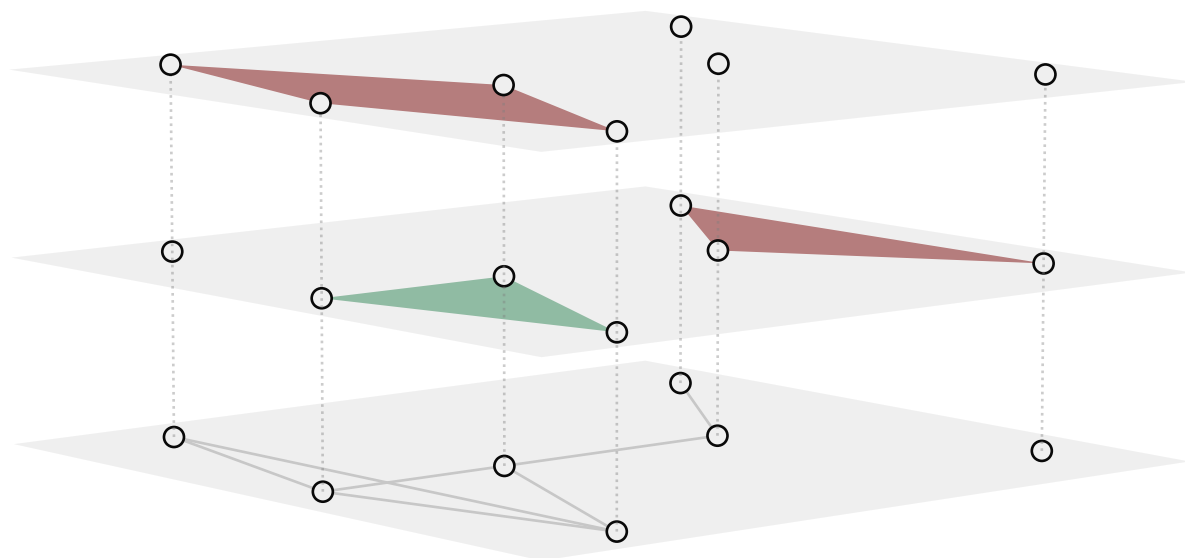


0 Simpliciality, σ 1

A

- Non-simplices, NS
- Simplices, S
- Ineligible simplices



$$\sigma_{SF} = |S| / (|S| + |NS|)$$

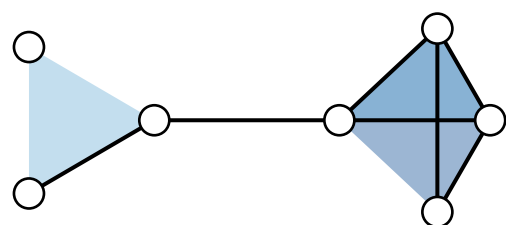
B

Simplicial Fraction, σ_{SF}

Hypergraph

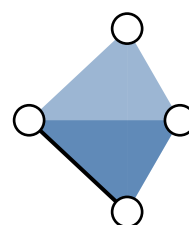
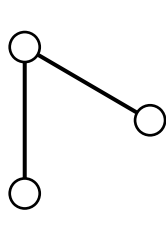
Missing edges

Minimal simplicial complex

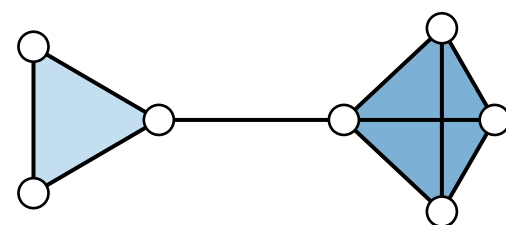


$\mathbf{H} = (V, E)$

+



=



$\mathbf{S} = (V, C)$

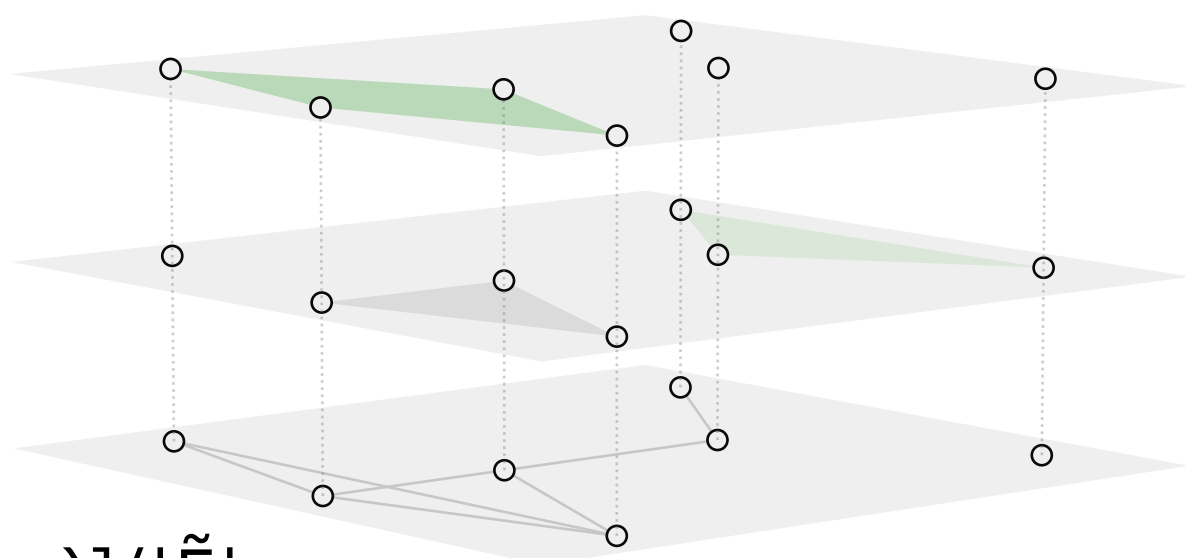
$$\sigma_{ES} = (|E| - |\tilde{E}|) / (|C| - |\tilde{E}|)$$

C

Edit Simpliciality, σ_{ES}

\tilde{E} , Maximal faces

- Maximal faces, \tilde{E}
- Ineligible simplices



$$\sigma_{FES} = [\sigma_{ES}(\tilde{E}_1) + \dots + \sigma_{ES}(\tilde{E}_{|\tilde{E}|})] / |\tilde{E}|$$

D

Face Edit Simpliciality, σ_{FES}