- Graph
  - Components
    - Edge set: E
    - Vertex set: V
  - Categories
    - Planarity
      - Planar
        - Face
    - Edges
      - Direction
        - Directed
        - Undirected
      - Number
        - Complete
    - Connectivity
      - Connected
      - Disconnected
  - Hypercube
    - Definition
    - # of Edges
  - Other terminologies
    - Self-edge/ loop
    - Neighbors
    - Degree
    - Path <-> Cycle
    - Walk <-> Tour
    - Tree
      - Connected and No Cycle <==> Connected + n-1 edges
  - Planar and Non-Planar
    - Euler's Formula: v+f = e+2
    - Non-Planar <=> K_3,3 or K_5
    - Planar graph can be colored with 5 colors