What are they?
Why are they important?

Graph Partitioners: Through the Lens of Visualization

Hadi Sinaee
CPSC 547 Pitch, Sep. 2021

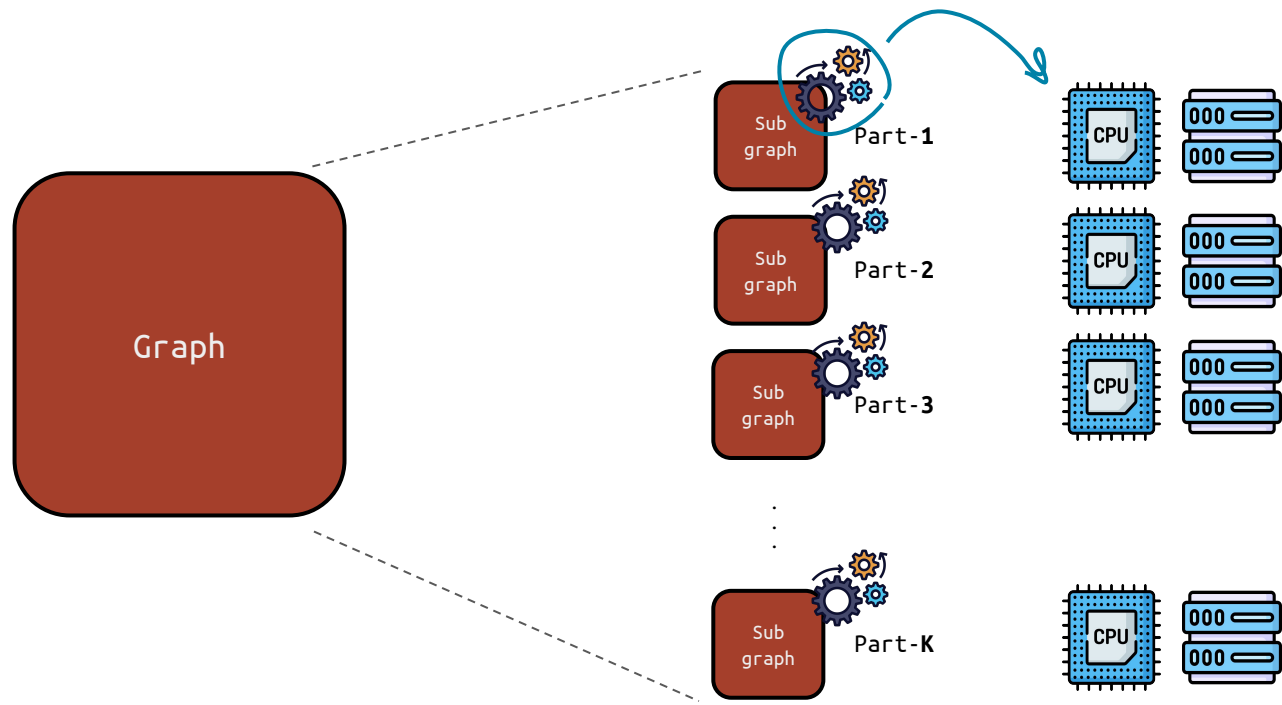# Graphs Are (Almost) Everywhere!

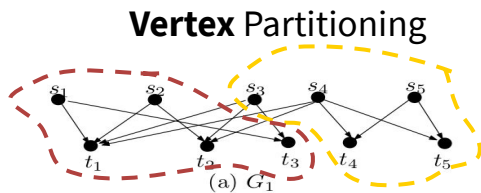# Graph Partitioning

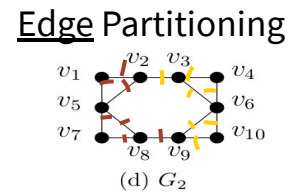# There are many ways to do it!

Vertex Partitioning

(a) G_1

Hybrid Partitioning

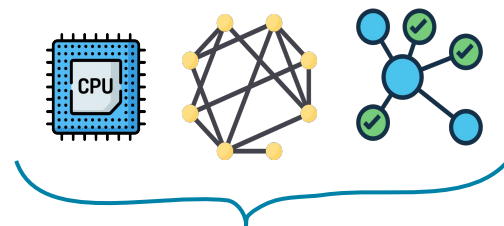<u>Edge</u> Partitioning

(d) G_2

Algorithms

Metrics

Replication factor

Load Balance

Workload Specific

Graph Partitioner Viz Tool

Tasks:
- How do metrics of an algorithm change over time?
- Compare algorithms' steps with one another in terms of their metrics over time.
- How different partitions are being filled over time for different algorithms?

T1   T2   TN

\<feature vector\>   \<feature vector\>   ......   \<feature vector\>