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Graphs

What we're going to learn

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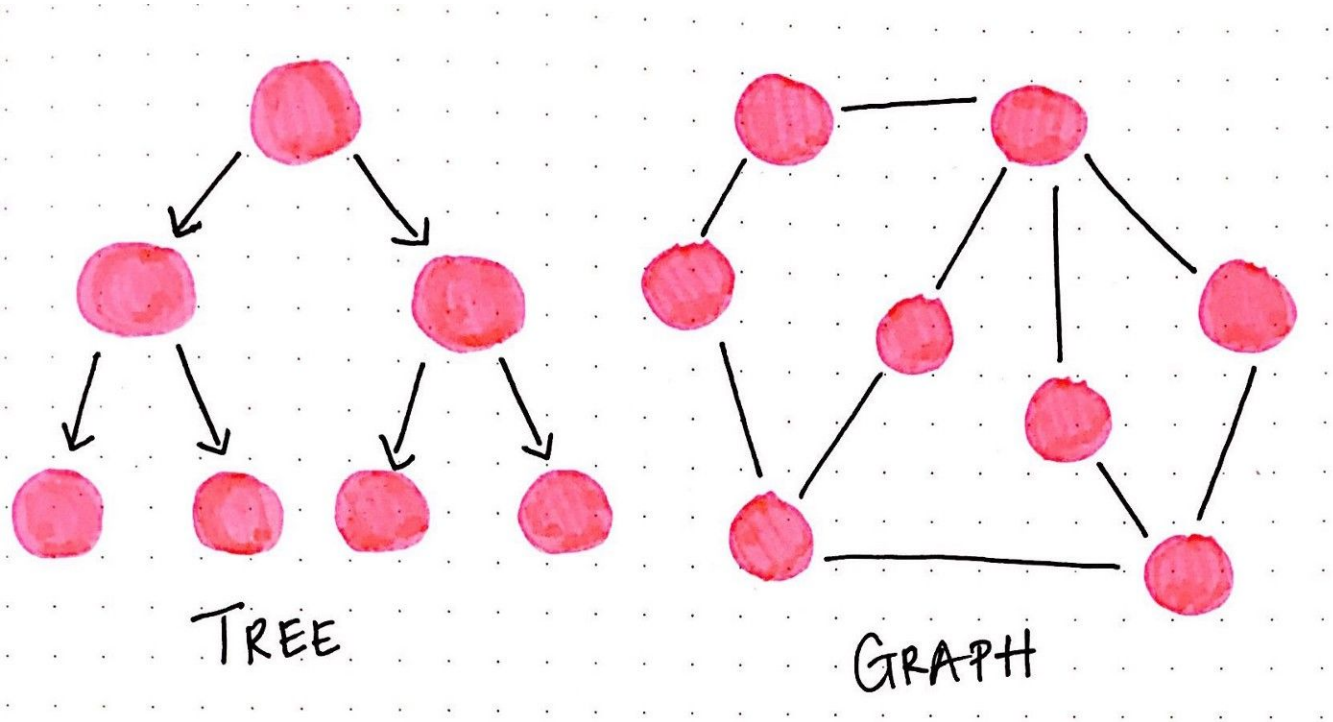
- What is a graph
- Some common graph terminology
- Types of problems you can solve with graphs

Images from A Gentle Introduction to Graph Theory by Vaidehi Joshi

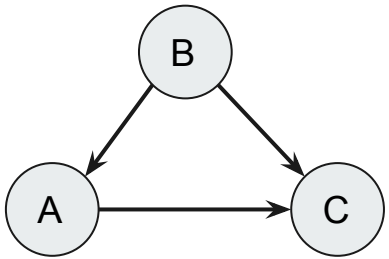


Definitions

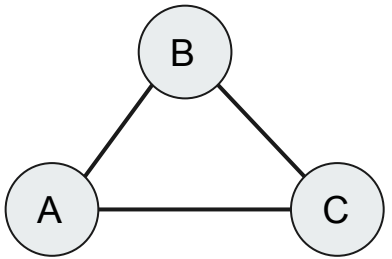
A **vertex** (also called a **node**) is the fundamental unit of a graph. It can represent a place, a person, etc.

- Plural: **vertices**

An **edge** is a connection between two vertices. It can be **directed** (goes only one way) or **undirected** (goes both ways).



-OR-



Digraph vs Graph

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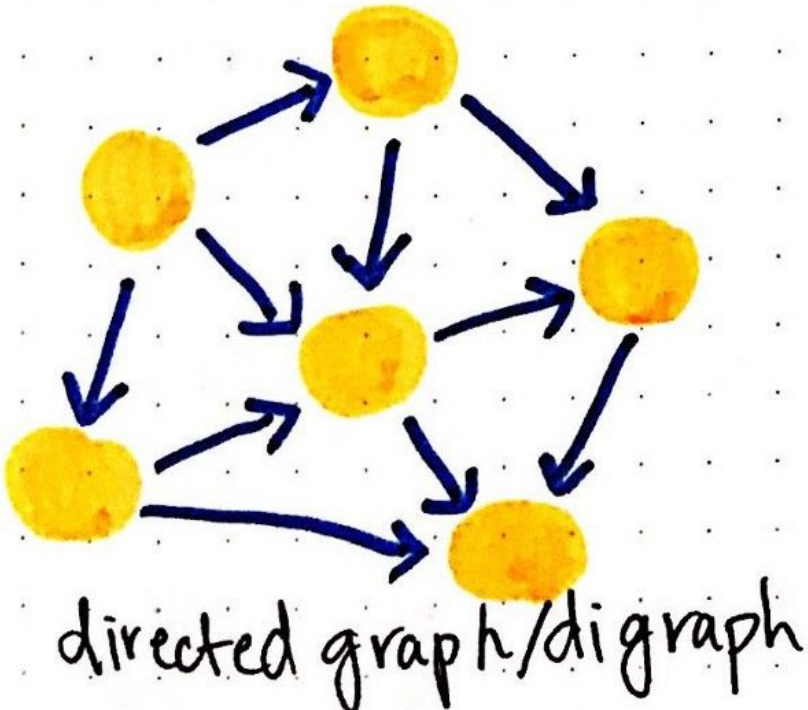
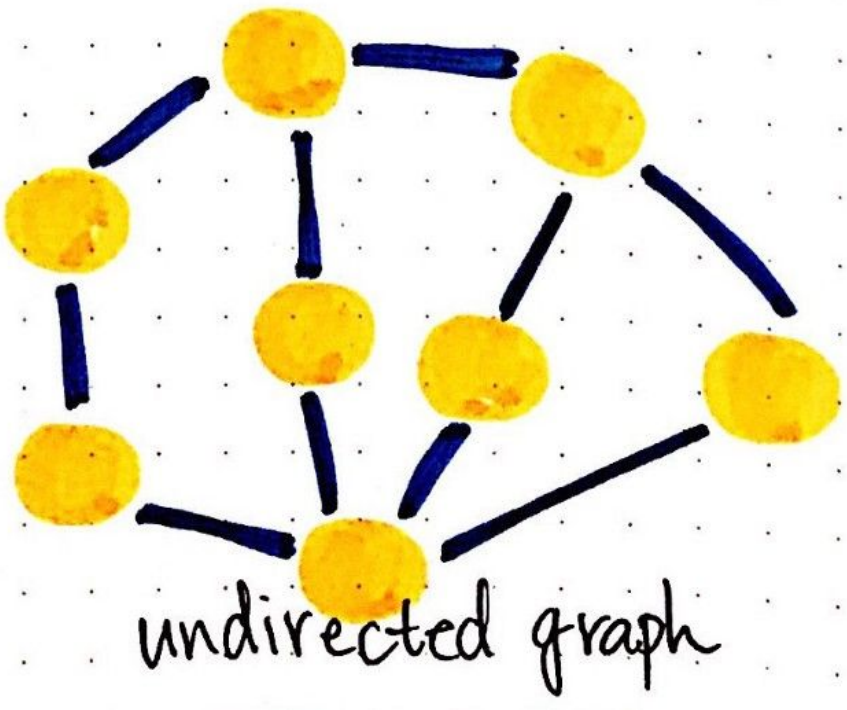
[Images from A Gentle Introduction to Graph Theory by Vaidehi Joshi]





Graphs

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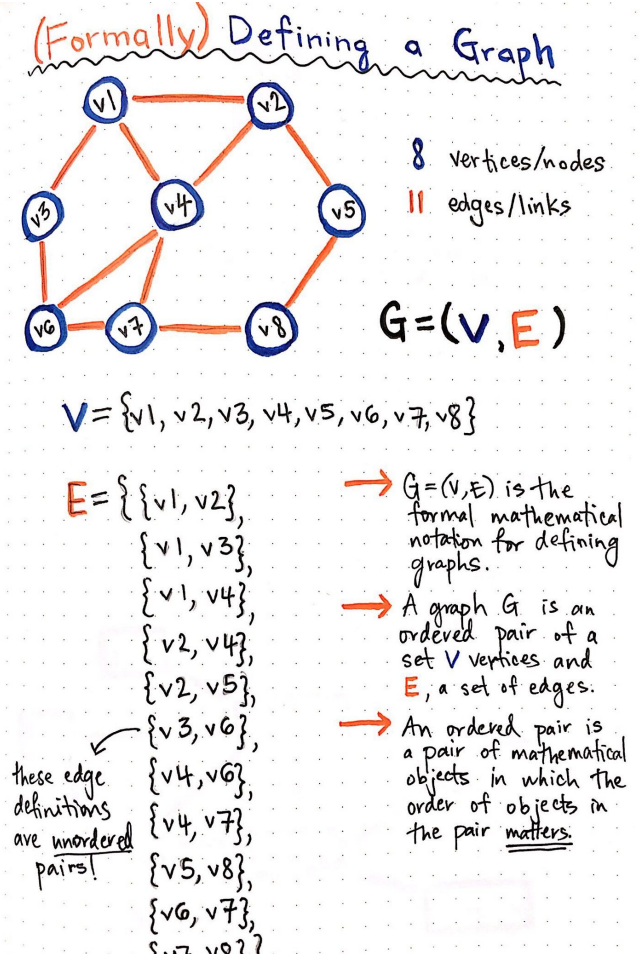

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Let's start building a Graph in Python!

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Shout Outs