

# Introduction to Data Science

## Graphs



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# Introduction

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  - World wide web, product/customer network, genetic, social network, etc.

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- Weighted graph
- Induced graph
- Embedding

# Type of graphs

- Directed vs undirected
- Weighted vs unweighted
- Simple vs non-simple
- Sparse vs dense
- Embedded vs topological
- Labeled vs unlabeled

# Typical graph problems

- Shortest path

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- Topological sorting

# PageRank - I

# PageRank - II