

Most Direct Route


- ✔ **Video:** Most Direct Route
9 min
- ✔ **Video:** Breadth-First Search
7 min
- ✔ **Video:** Breadth-First Search (continued)
6 min
- ▶ **Video:** Implementation and Analysis
9 min
- ▶ **Video:** Proof of Correctness
7 min
- ▶ **Video:** Proof of Correctness (continued)
5 min
- ✔ **Video:** Shortest-Path Tree
6 min
- ✔ **Video:** Reconstructing the Shortest Path
3 min
- ✔ **Reading:** Slides and External References
10 min

Programming Assignment



Slides and External References

Slides

 **10_shortest_paths_in_graphs_1_bfs.pdf**
PDF File



Reading

Sections 4.1 and 4.2 in [DPV]

If you find this lesson difficult to follow

[Section on breadth-first search](#) at Algorithms class by Tom Cormen and Devin Balkcom at Khan Academy

Visualizations

- [Breadth-first search](#) by David Galles

References

[DPV] Sanjoy Dasgupta, Christos Papadimitriou, and Umesh Vazirani. Algorithms (1st Edition). McGraw-Hill Higher Education. 2008.

✔ Complete

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