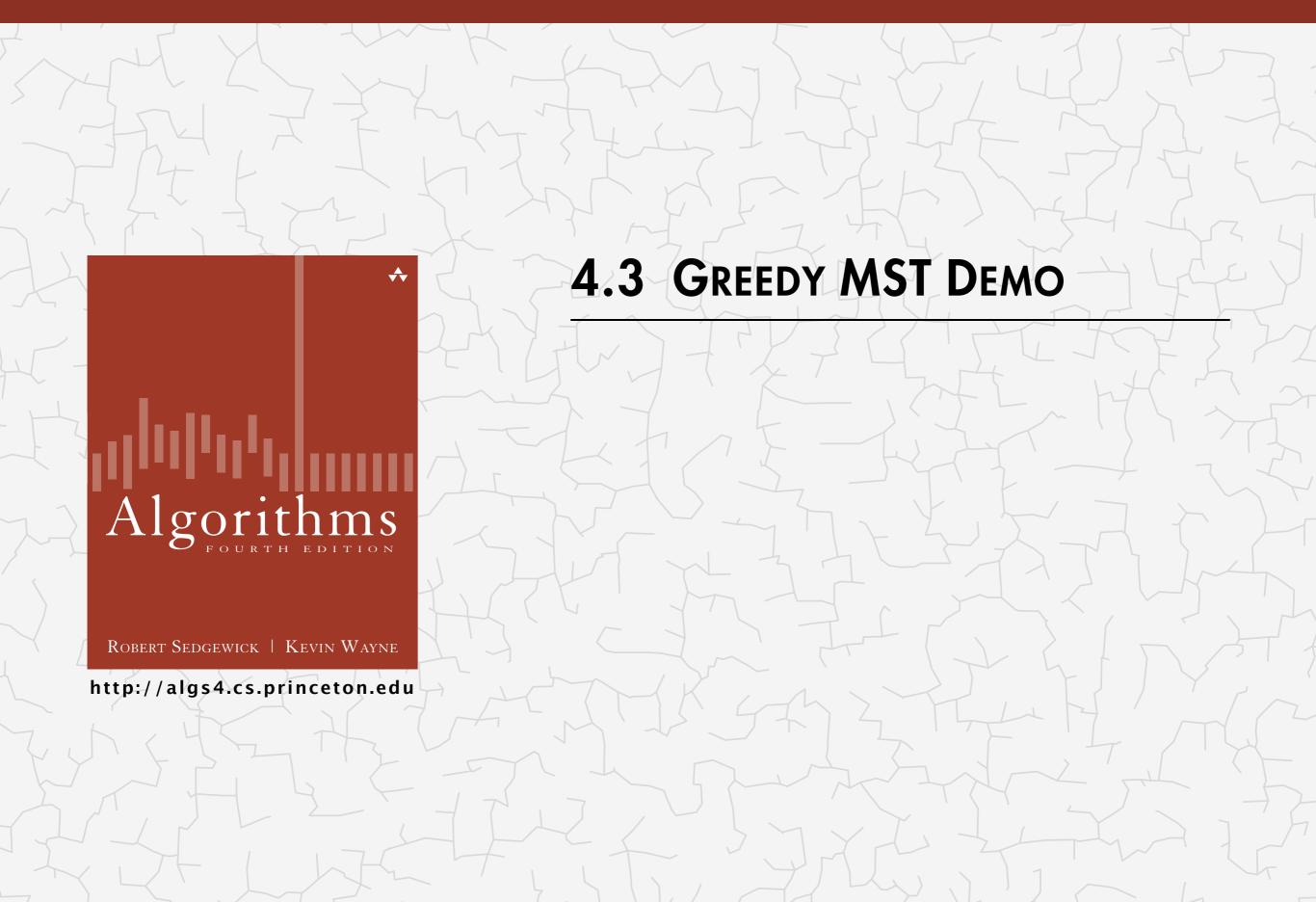
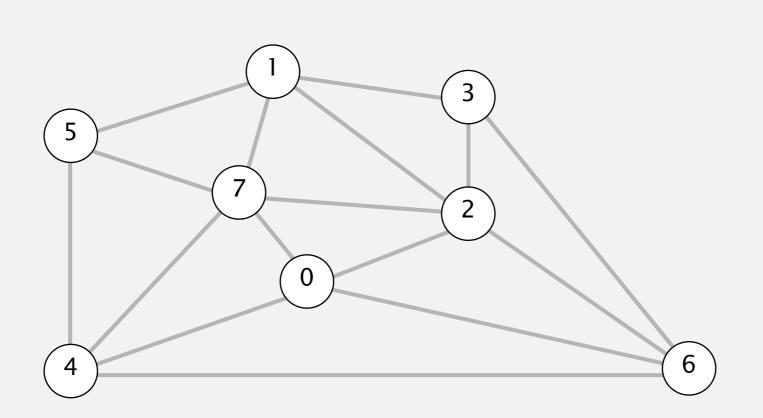
Algorithms



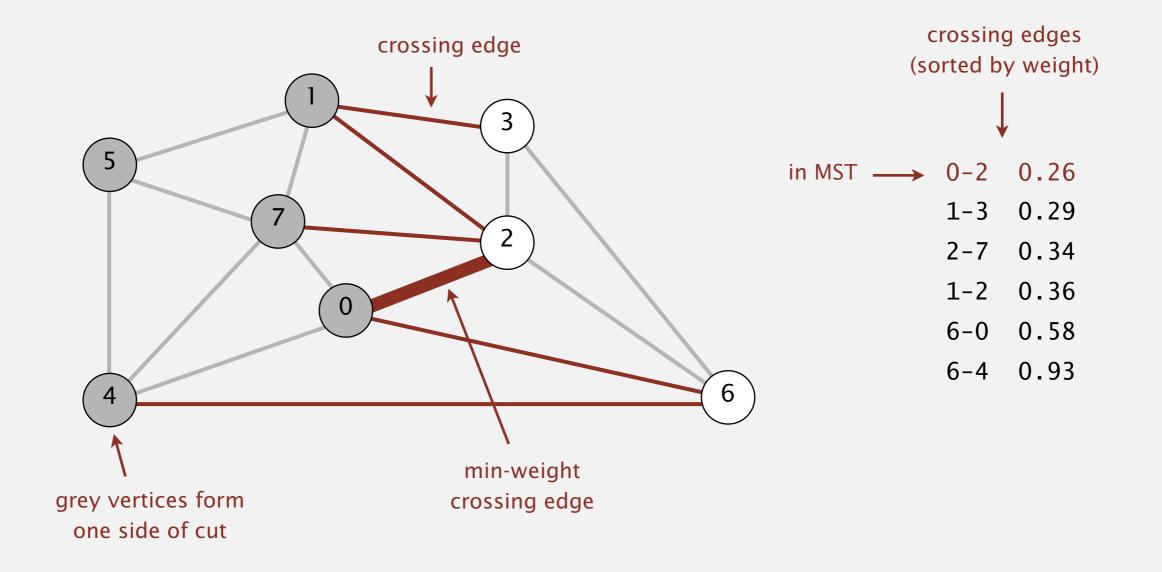
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



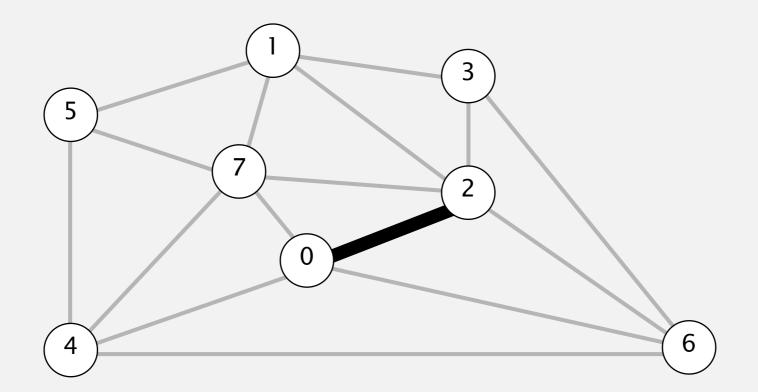
an edge-weighted graph

| 0-7 | 0.16 |
|-----|------|
| 2-3 | 0.17 |
| 1-7 | 0.19 |
| 0-2 | 0.26 |
| 5-7 | 0.28 |
| 1-3 | 0.29 |
| 1-5 | 0.32 |
| 2-7 | 0.34 |
| 4-5 | 0.35 |
| 1-2 | 0.36 |
| 4-7 | 0.37 |
| 0-4 | 0.38 |
| 6-2 | 0.40 |
| 3-6 | 0.52 |
| 6-0 | 0.58 |
| 6-4 | 0.93 |

- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



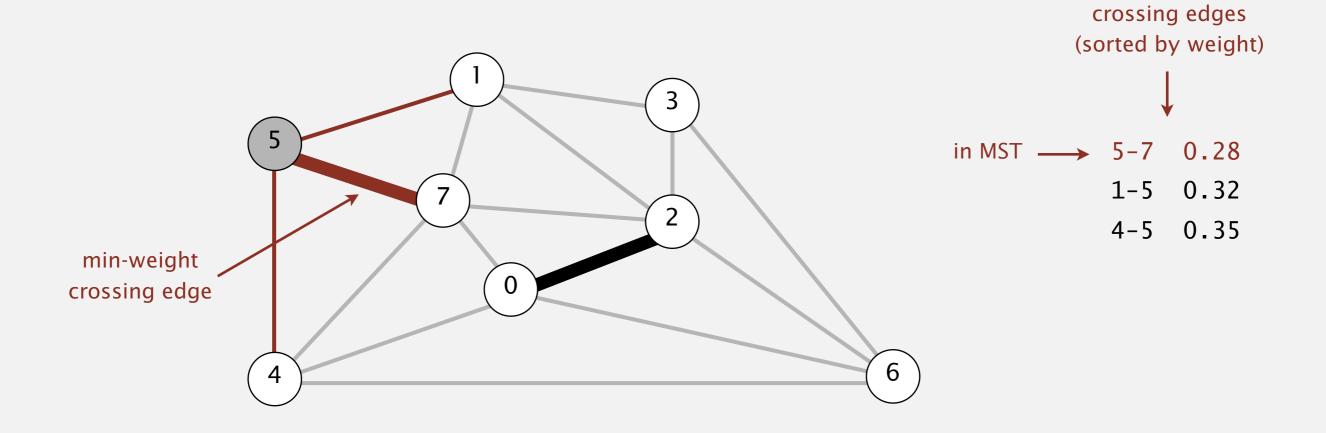
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2

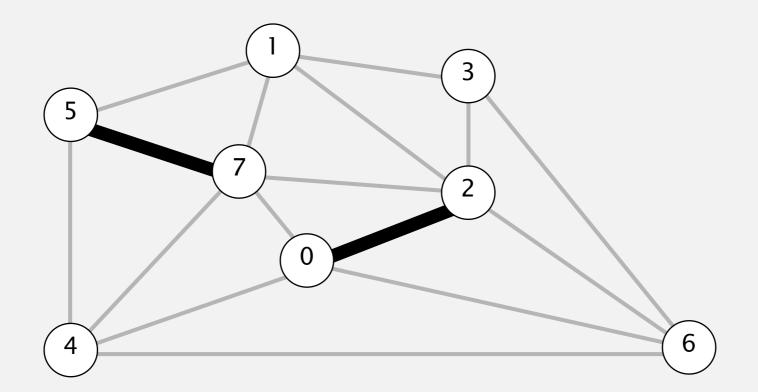
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0 - 2

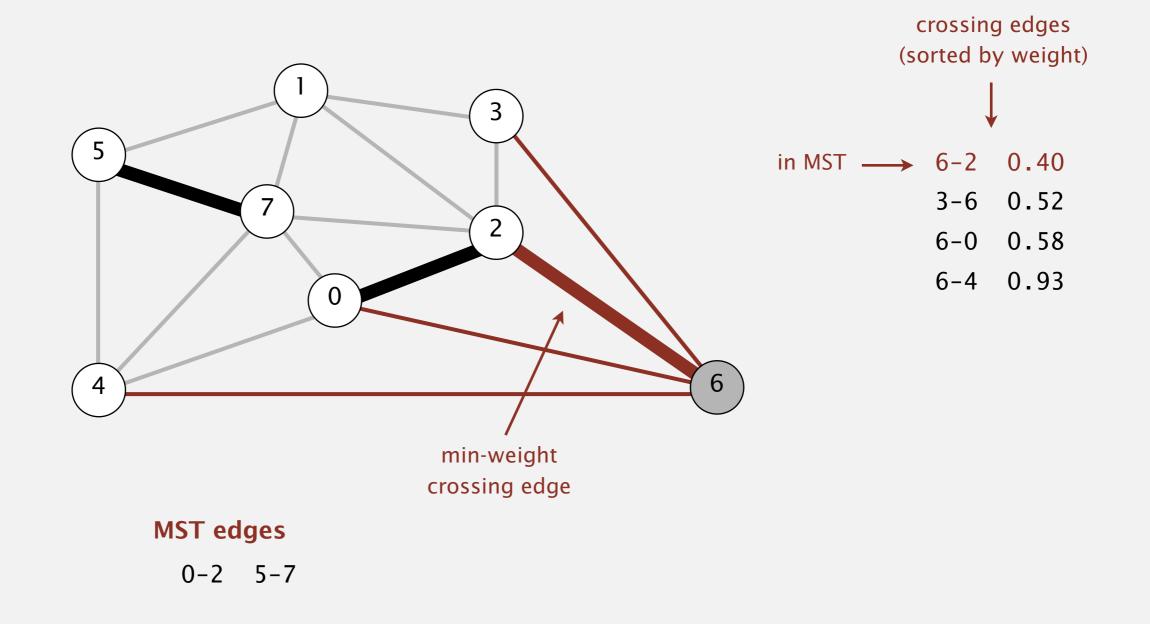
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



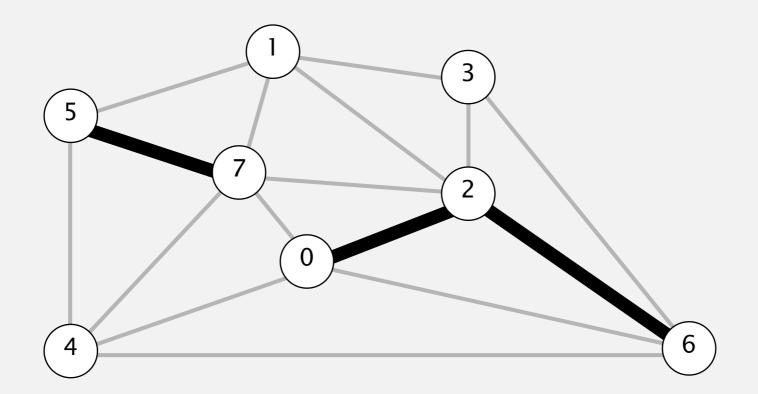
MST edges

0-2 5-7

- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



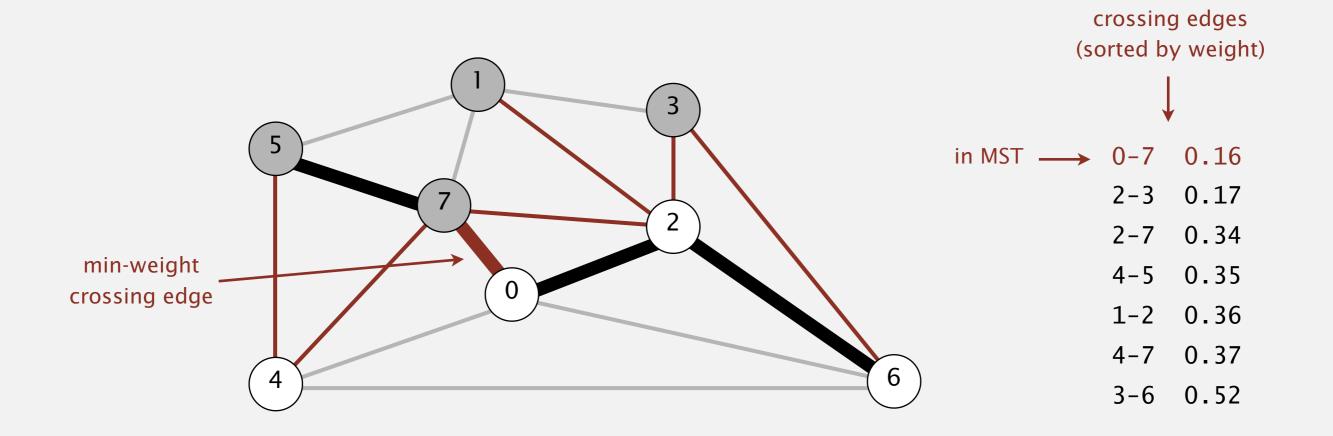
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2

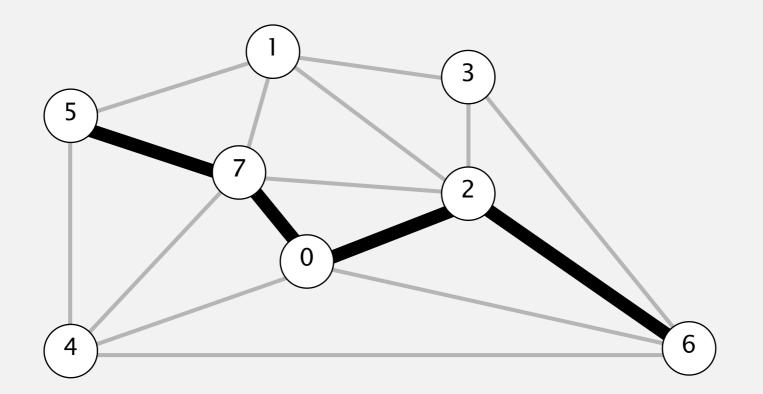
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2

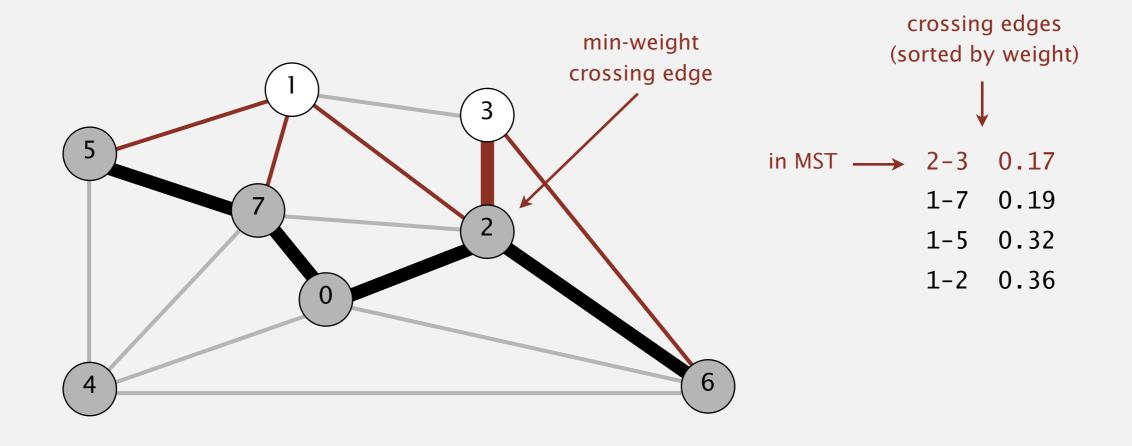
- Start with all edges colored gray.
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- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7

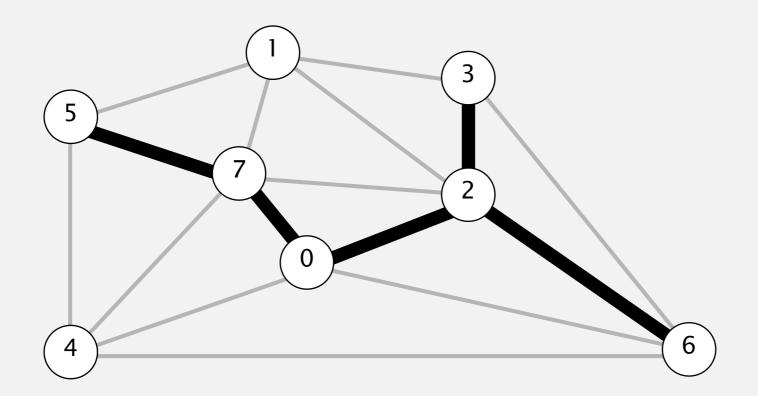
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- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7

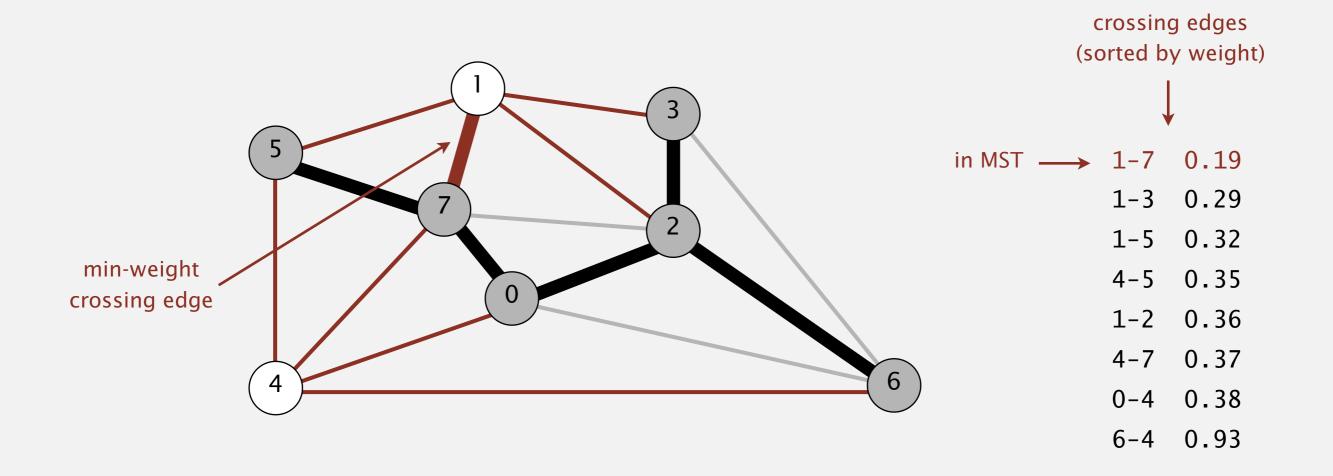
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7 2-3

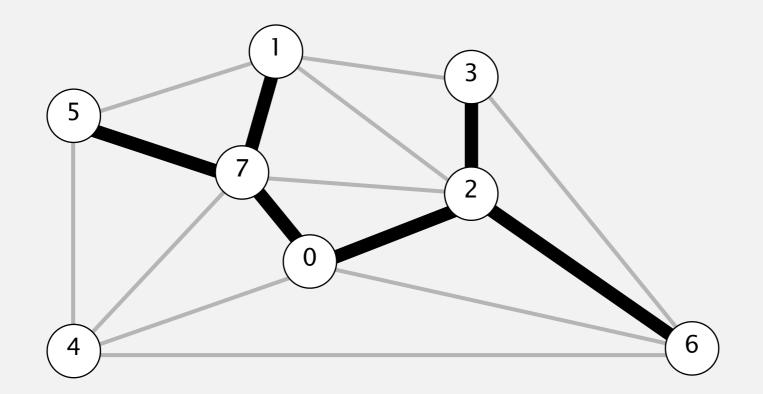
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7 2-3

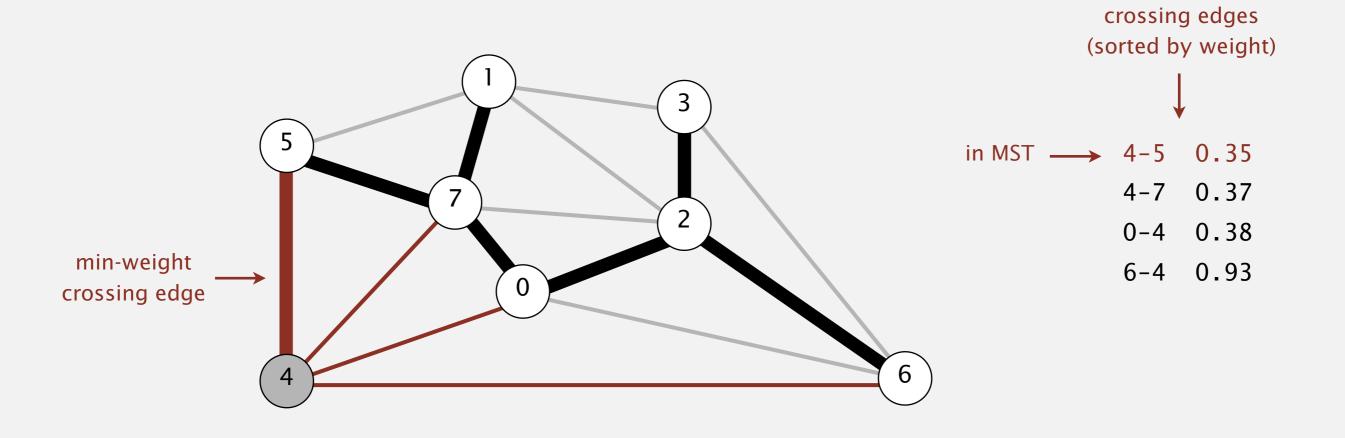
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7 2-3 1-7

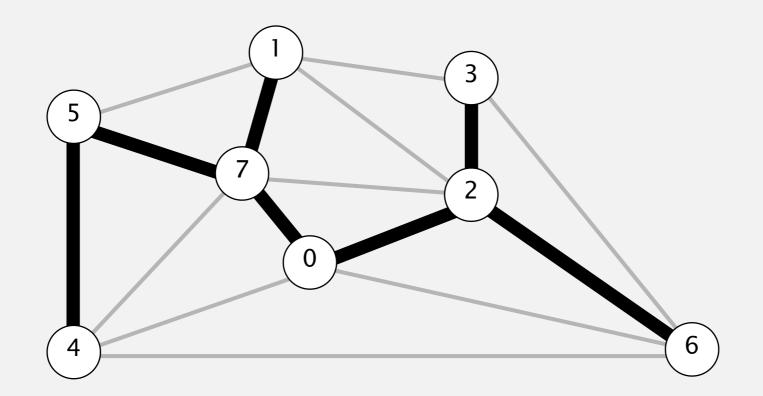
- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7 2-3 1-7

- Start with all edges colored gray.
- Find cut with no black crossing edges; color its min-weight edge black.
- Repeat until V-1 edges are colored black.



MST edges

0-2 5-7 6-2 0-7 2-3 1-7 4-5