State Diagrams Part b: Designing Phone Lattices

Ian Ludden

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- Identify the words recognized by a given phone lattice.

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- Identify the words recognized by a given phone lattice.
- Design a phone lattice for a given set of words.

Phone Lattices

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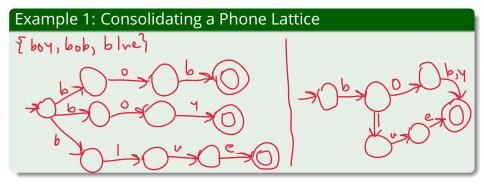
Definition

A *phone lattice* is a state diagram representing sequences of letters, that is, actions are letters.

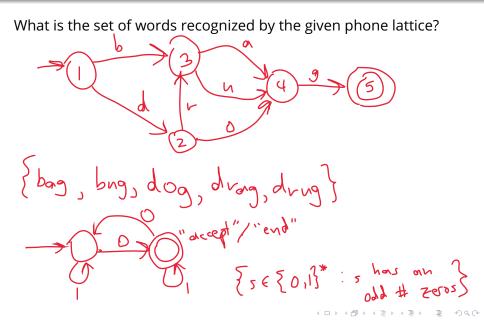
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Definition

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Example 2: Identifying the Set of Words



Example 3: Designing a Phone Lattice Construct a phone lattice for the words {dive, dire, hive, hire, hug}. Use at most 9 states; try to use no more than 7 states. hu VIV 200

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