













## Copyright GTHeth Grave-HI Corporatesing Permissionerspiled temperaturisonerspile Finite State Machine

- A system with the following components:
- 1. A finite number of states
- 2. A finite number of external inputs
- 3. A finite number of external outputs
- 4. An explicit specification of all state transitions
- 5. An explicit specification of what determines each external output value
- Often described by a state diagram.
  - Inputs trigger state transitions.
  - Outputs are associated with each state (or with each transition).

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## Looking Ahead: C Arrays • Array name can be used (and passed) as a pointer // static allocation for array int iArray[2] = {1234, 5678}; printf("iArray[0]: %d", iArray[0]); printf("iArray[1]: iArrey[1]); led", printf("&iArrey[0]: %p", &iArray[0]); printf("SiArray[1]: %p", &iArray[1]); printf("iArray: %p", iArray); CS270 - Spring Semester 2016 19

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