Last updated 12/12/24

State Diagram – Moore

State name



Outputs



- Inputs
- Conditions



- State Transition Diagram Moore
 - Transitions ONLY occur on clock edges (rising)
 - Transitions occur on EVERY clock edge (rising)
 - Priority stop light Inputs: Reset, Traffic N/S, Traffic E/W
 - State 0 : NS light state variable (memory) holds code for green EW light state variable (memory) holds the code for red

STO

NS: green
EW: red

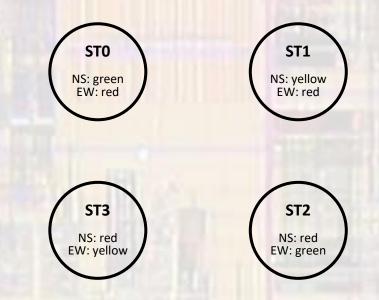
• State 1 : NS light state variable (memory) holds code for yellow EW light state variable (memory) holds the code for red

ST1

NS: yellow
EW: red

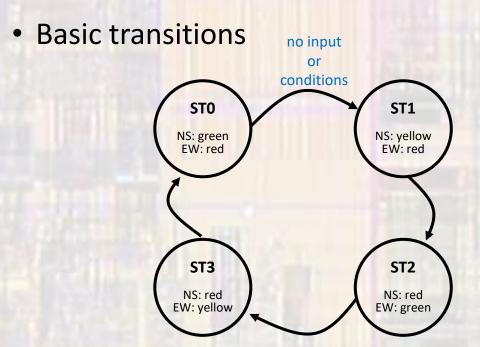
CPE 1500

- State Transition Diagram Moore
 - Transitions ONLY occur on clock edges (rising)
 - Transitions occur on EVERY clock edge (rising)
 - Priority stop light Inputs: Reset, Traffic N/S, Traffic E/W



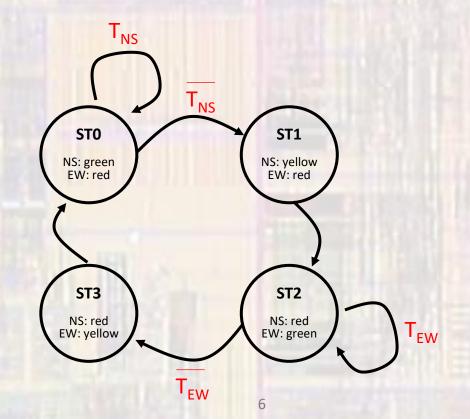
© ti

- State Transition Diagram Moore
 - Transitions ONLY occur on clock edges (rising)
 - Transitions occur on EVERY clock edge (rising)
 - Priority stop light Inputs: Reset, Traffic N/S, Traffic E/W



If we did not sense for traffic – this would be complete

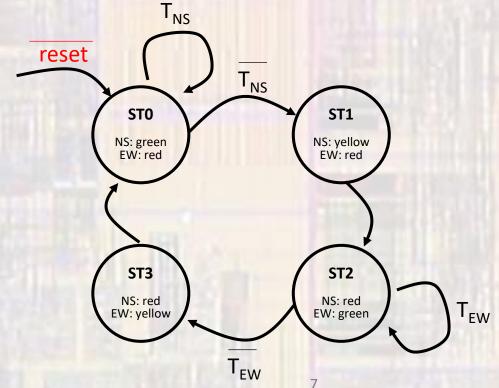
- State Transition Diagram Moore
 - Transitions ONLY occur on clock edges (rising)
 - Transitions occur on EVERY clock edge (rising)
 - Priority stop light Inputs: Reset, Traffic N/S, Traffic E/W



CPE 1500

© tj

- State Transition Diagram Moore
 - Transitions ONLY occur on clock edges (rising)
 - Transitions occur on EVERY clock edge (rising)
 - Priority stop light Inputs: Reset, Traffic N/S, Traffic E/W



CPE 1500 CPE