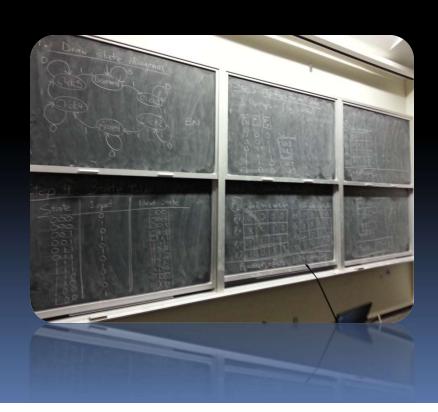
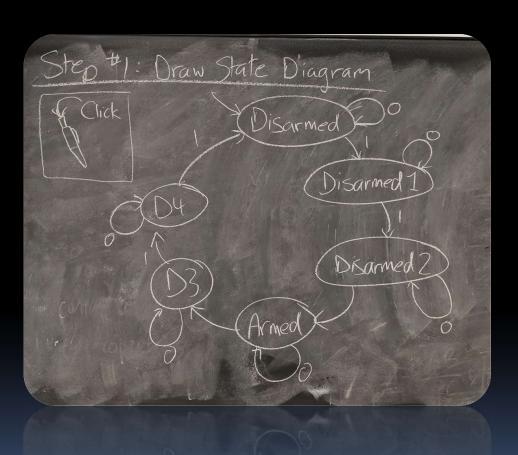
FSM example - Winter 2019

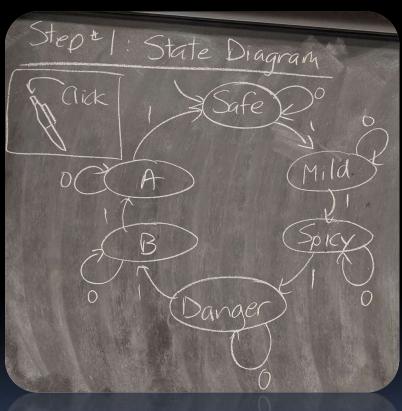


FSM task

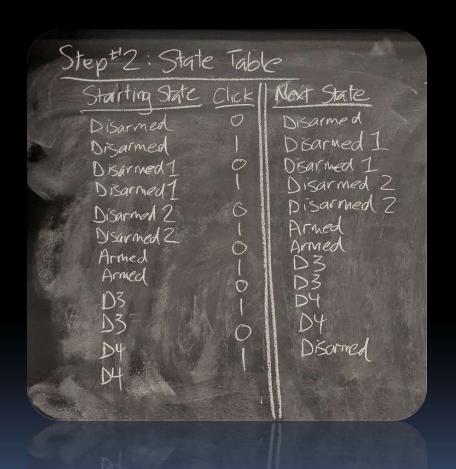
- Exploding pen from Goldeneye (James Bond)
 - Three clicks to arm,
 - Three clicks to disarm.
- Note how the design differs as a result of choosing different flip-flop assignments!

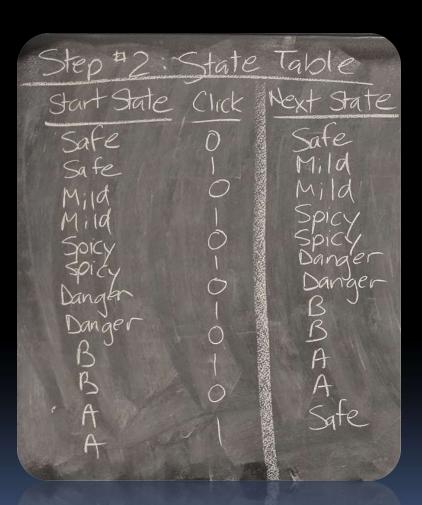
Step 1: State Diagram



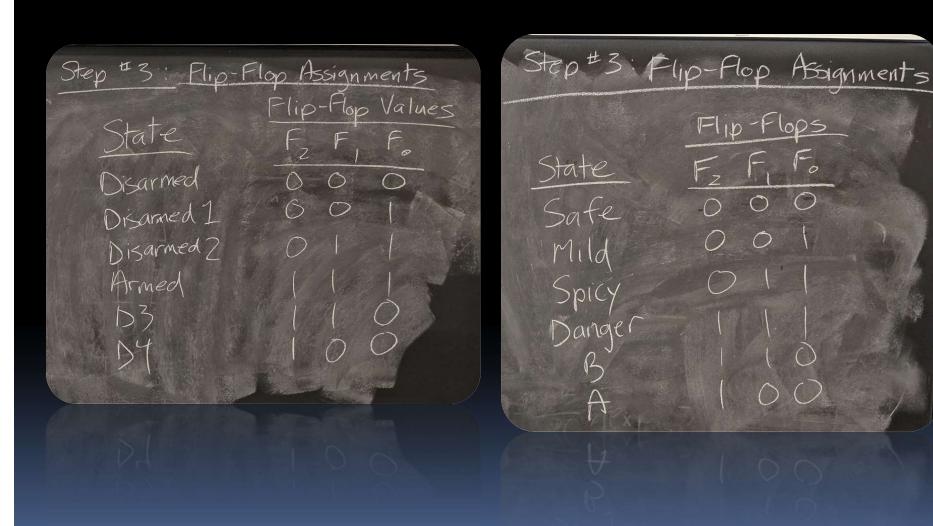


Step 2: State Table

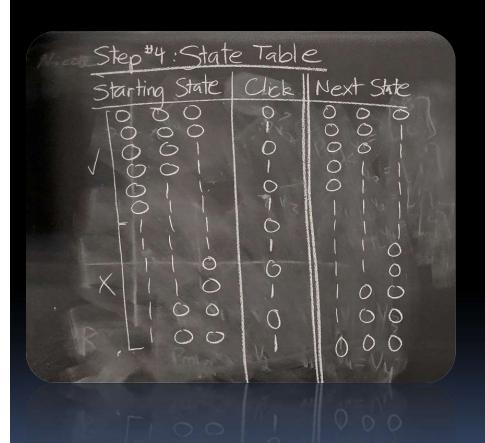


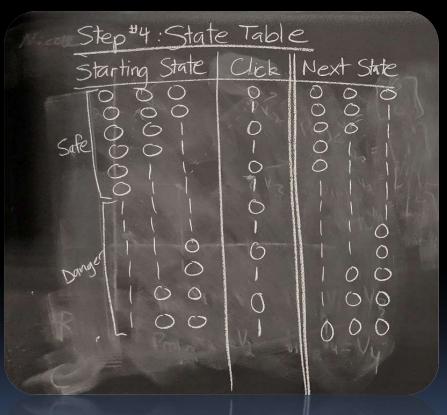


Step 3: Flip Flop Assignments

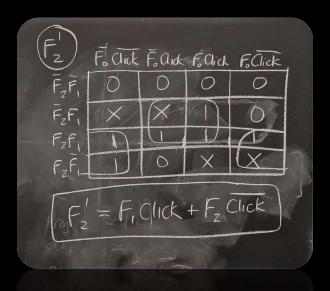


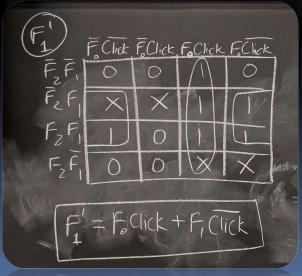
Step 4: State Table, updated

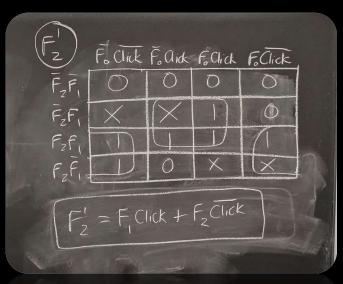


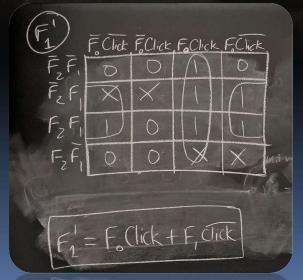


Step 5: Circuit Design

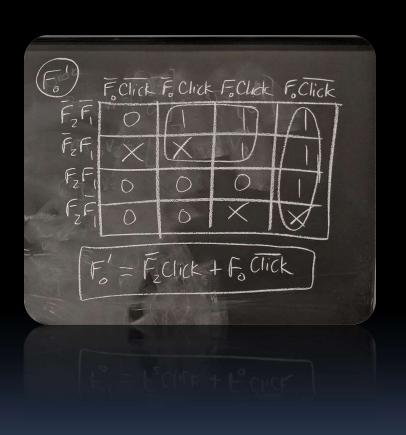


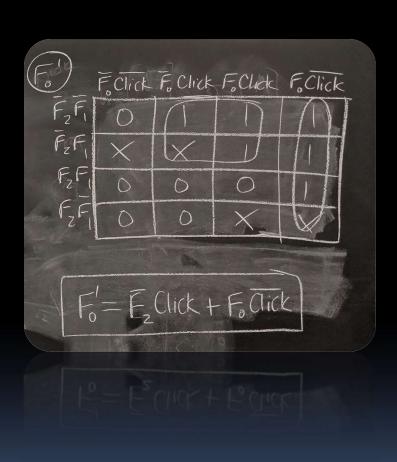






Step 5: Circuit Design





Step 5: Circuit Design

