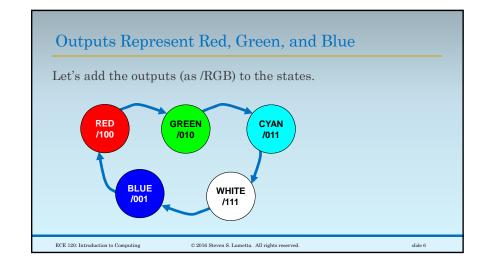
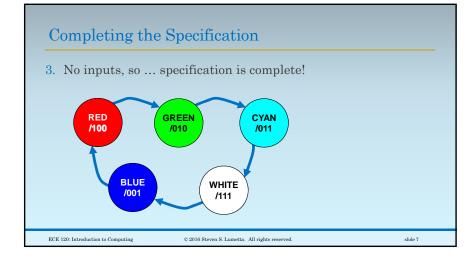
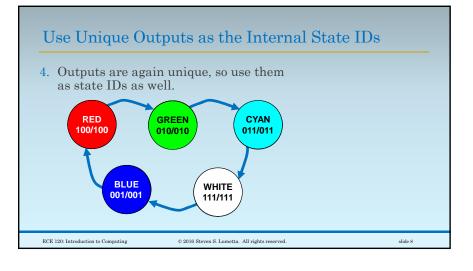
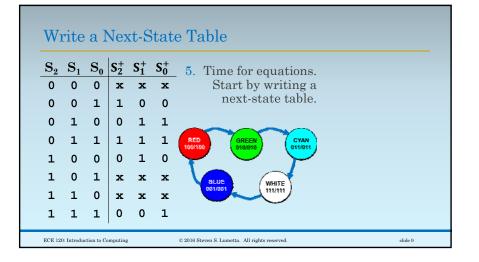


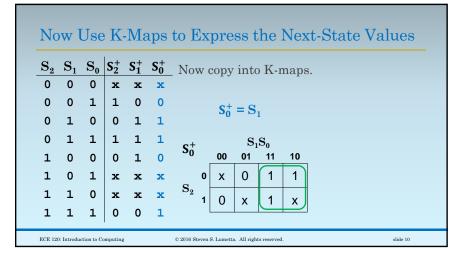
Next, Define Inputs and Outputs					
2. Inputs: none (it's a counter).	RGB	color	•		
	000	black			
Outputs? We can just read RGB from the table for each state.	001	blue			
	010	green			
	011	cyan			
	100	red			
	101	violet			
	110	yellow			
	111	white			
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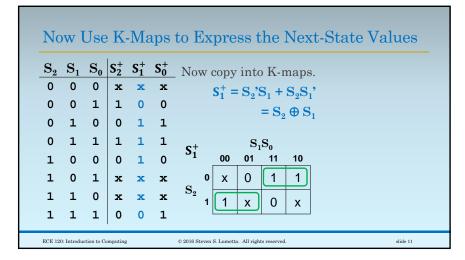


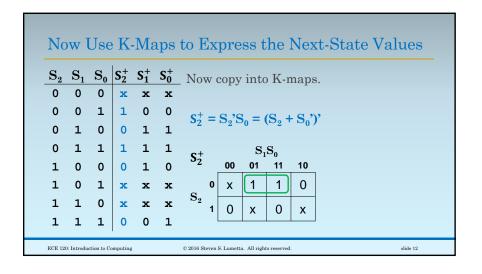


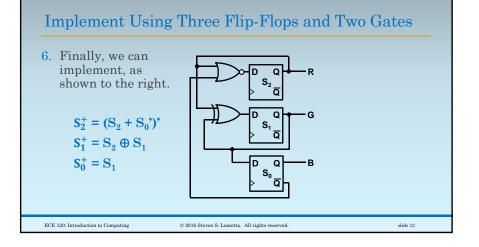


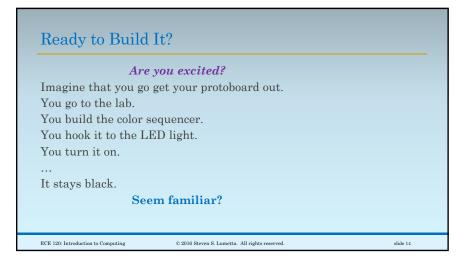












Behavior Seems to Be Inconsistent	
You debug for a while. You play with wires.	
You look at datasheets	
Everything seems right.	
Sometimes it works.	
Sometimes it flashes yellow or violet, then works.	
Sometimes it stays black.	
What's going on?	
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	the "don't care" states? $S_{2}^{+} \xrightarrow{S_{1}S_{0}} \underbrace{\begin{array}{c}0 & 0 & 1 & 11 & 10\\ \hline S_{2} & 1 & 0 & x\\ 1 & 0 & x & 0 & x\end{array}}_{000 \rightarrow 0??}$ $\underbrace{\begin{array}{c}000 \rightarrow 0??\\101 \rightarrow 0??\\110 \rightarrow 0??\end{array}}_{110 \rightarrow 0??}$	
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