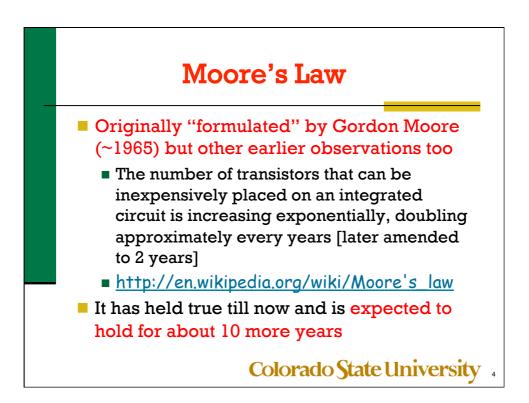
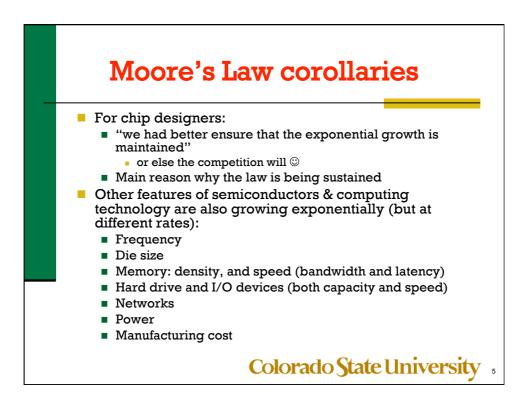


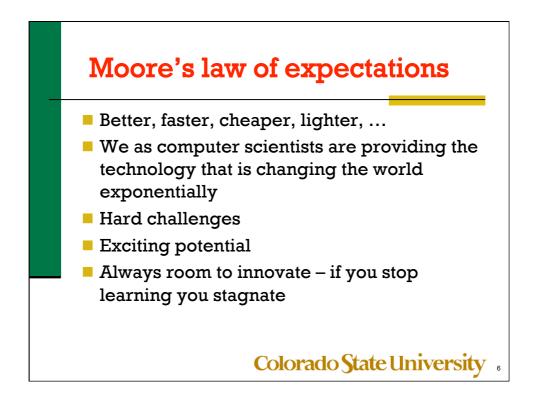
What was brushed under the carpet in CS 270 _____

- Combinational circuits are instantaneous
- Minimalist vs Efficient
 - LC-3 can execute any program
 - But does it do it efficiently?
- How fast can the machine go?
- How much power does it consume?
- What is the manufacturing cost?
 - Economies of scale

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V 7



When two quantities grow exponentially, but at different rates, their ratio also grows exponentially. Consider,

$$y_1 = a^x$$
,

and
$$y_2 = b^x$$
 for $a \ge b \ge 1$

$$y = \frac{y_1}{y_2} = \left(\frac{a}{b}\right)^x = \alpha^x \text{ for } \alpha \ge 1$$

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