What does this FSM do?

Review Problem 28
then do all assignments simultaneously.

Non-Breaking \( \rightarrow \)

Block Breaking \( = \)
Each variable written in only one always block.

NEVER mix in one always block!

⇒ in sequential: always @ (posedge clk)
⇒ = in combinational logic: always_comp, assign

= vs. ⇒ in practice
If user guesses 8 patterns in a row, they're psychic.

Machine generates pattern of 4 values (on or off)

Psychic Tester:

Some problems best solved with multiple pieces

Subdividing FSMs
Subdividing FSMs (cont.)

Piece 4: (9 prime numerals)

Guess

Correct

User Input

"9", ".

Piece 3:

(15 state FSM)

Piece 2:

You are

LEO

Piece 1:

(4 syllables, 1 "90" pattern)
NEVER put a logic gate between the clock and DFE's CLK input.

Flipflop Realities 1: Gating the Clock