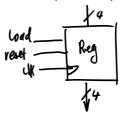
Sequential Logic

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Sequential Blocks

An example is a flip flop: The following is a 4-bit register



Positive D-Flip-Flop:

In SystemVeriolog, the **always** keyword can be replaced with **always_ff**, which is safer.

Blocking vs. Non-blocking Assignments

Blocking

X = Y;

This will cause the assignment to happen immediately. So any succeeding assignments will use the new values

Non blocking

This just says that X takes the value of Y at the end of the clock cycle. Thus any succeeding assignments will use the values at the beginning of the clock cycle. Thus ordering doesn't matter