



FTBU: Binary, Boolean Logic, Boolean Arithmetic

From the Bottom Up Series

Lecture Outline

01

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Binary

- Use decimal as a model
- How binary works
- Converting
- Adding and subtracting
- Binary to boolean

02

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And, Or, Not, Nand, Xor

Logical Operators & Gates

- How each gate works with one or two inputs using tables
- Multiple inputs intro

03

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Combinations of operators and gates

- Chaining together and connecting gates
- Results in other devices

04

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Other devices

- Multiplexors (muxes)
- The ALU
- Flip flops

