

6.002 Demo# 15

Digital Memory

Lecture 15

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Purpose: This demo looks at designs of digital memory using a capacitor and inverters (buffers). Several versions are examined, with various loading properties (memory loss over time, memory loss with successive reads, etc.) A demo setup with leds on output lines allows the class to observe values on wires.

Steps:

Description: Digital Memory

We install the components shown next page Fg1, on the Digital Board to show that the capacitor can retain the voltage when the supply is disconnected from the circuit. This is demonstrated by viewing The status of those two inverters.

Note: see schematic diagram next page for more detail.

Memory Demo Installed on Digital Board

