

WAYS TO MEASURE INFORMATION A BINARY DIGIT

Lecture 3



HOME TASKS

- 1. How can we measure information?
- 2. What's the bit?
- 3. Give some examples of signs, things and agents.





BINARY DIGITS



DECIMAL DIGITS

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

A NUMBER

123 1*100+2*10+3*1 = 123



123 100+20+3 1*100+2*10+3*1

NUMBER SYSTEM

HOW TO KEEP THE BITS?







SWITCH









DN C OFF	ON CFF	ON P OFF	DN CFF	DN CF	ON CFF	ON C OFF	ON C OFF	ON C Off	ON C OFF			ON OFF	ON OFF		
ON C OFF	ON CFF	ON C OFF	ON C OFF	ON C OFF	ON OFF	ON C Off	ON C OFF		ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	DN OFF
ON DFF		ON CFF	ON			ON CFF		ON CFF	ON CFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF
ON OFF	ON OFF	OH OFF	ON OFF	ON CFF	ON OFF	ON OFF	ON CFF	ON OFF	ON OFF	ON C OFF	DN CFF	ON CFF	ON CFF	ON	DN C OFF
	ON C OFF		DN OFF	DN OFF	ON C OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	DN OFF	ON OFF	DN OFF	DN DFF	DN DFF

DIGITAL MEMORY





DIGITAL VERSUS ANALOG

- Digital is used to convey the notion of discrete objects/values
 - Things we can count
 - Digital information is equivalent to symbolic information
- •Analog (or Analogue) Information transmission via electrical, mechanical, hydraulic, and sound signals
 - Continuously varying signals which are not countable







HOME TASKS

- 1. What's a digital device?
- 2. Which types of information can a digital device keep?
- 3. How can you save in digit view all types of information?