





- * The solution is to create more symbols by composing patterns ...
- * Three patterns make three symbols:

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* Pairing them makes 9 symbols; when they are triples, 27 symbols, and ...







Contraction of the second	
The miracl	e of IT is that physical and
Present repre	esents true / Absent represents false
Pavement Memory	or maybe vice versa

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andA is a *binary representation* because it uses 2 patterns Bit -- it's a contraction for "binary digit"

-- a position in space/time capable of being set and detected in 2 patterns

Sherlock Holmes's *Mystery of Silver Blaze* -a popular example where "absent" gives information ... the dog didn't bark, that is the phenomenon wasn't detected



- * Adopted by IBM in 1960s
- * A standard measure ever since
- * Bytes encode the Latin alphabet using ASCII -- the American Standard Code for Information Interchange







Bits and bytes encode the information, but that's not all

- * Tags encode format and some structure in word processors
- * Tags encode format and some structure in HTML
- * In the Oxford English Dictionary tags encode structure and some formatting



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joins physical & logical domains so physical devices do our logical work

- * Symbols represent things 1-to-1
- * Create symbols by grouping patterns
- * PandA representation is fundamental
- * Bit, a place where 2 patterns set/detect
- \ast ASCII is a byte encoding of Latin αbet
- * In addition to content, encode structure