MOS Technology 6502
- 1975. Much less expensive than competitors. — \$25. (in today's \$150). 6 x chequer than competitors.
-> home computing revolution. (Atai 2600, Apple II, NES, Commodin 64, BBC Mizn)
BBC Mizn)
 1003 003
Registers A (accumulatur — lihe our Dregister) (8 bits) X 7 2 1 (8 lite)
X] index registers (8 bits)
y 5 / 5 (
P - processor Status bits. (8 bits)
S - stack pointer. (? bits)
PC - (16 6/4). 65,536 bytes - ~ 32 K instructions.
~ 32 K instructions.
Instructions.
The Standing of the standing o
8-bit instruction Cocles ("plodes):
·
AAA BBB ((
addressing wode.
operation. (adors)

Grations:
- Logic
- Legic - ADD, SUB (carm - could chain to add (6-bit values)
(6-bit values)
- CMP - Compare 2 values. + Set status Litz.
- JMP - unconditional jump.
- Branch - Conditional relative jump. - Shift, rotate
- Shift, rotate
Addressing modes:
T 11 - 11 (22) ~
- Immediate - next byte (~ 2?) is a
Congtant.
- Absolute - Szectloss o memor address (2 bles)
- Absolute - Specifies a newony address (2 bytes) - Zero-page: I byte specifies address in first 2566 bytes of RAM.
7 (by lander of CAM.
- Indirect: 2 bytes specify men location + next which stores an address which we then
which stores an address which we then
look up.
· ·
- Indirect indexed: 160kg up address in
memory then adds I register to resulty
- Indirect indexed: 160kg up address in memory, then adds I register to resulty address t looks that up
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