MOS 6502 / MOS 6510

Deep Dive Addressing Modes
Deep Dive Instruction Set

LDA Load Accumulator with Memory

M -> A N Z C I D V

addressing	assembler	орс	bytes	cycls
immediate	LDA #oper	A9 A5	2 2	 2 3
zeropage zeropage,X	LDA oper LDA oper,X	B5	2	4
absolute absolute,X	LDA oper LDA oper,X	AD BD	3 3	4 4*
absolute,Y	LDA oper,Y	B9	3	4*
<pre>(indirect,X) (indirect),Y</pre>	LDA (oper,X) LDA (oper),Y	A1 B1	2 2	6 5*
	\JP\.,\			

- * add 1 to cycles if page boundary is crossed
- ** add 1 to cycles if branch occurs on same page add 2 to cycles if branch occurs to different page

Legend to Flags: + modified - not modified

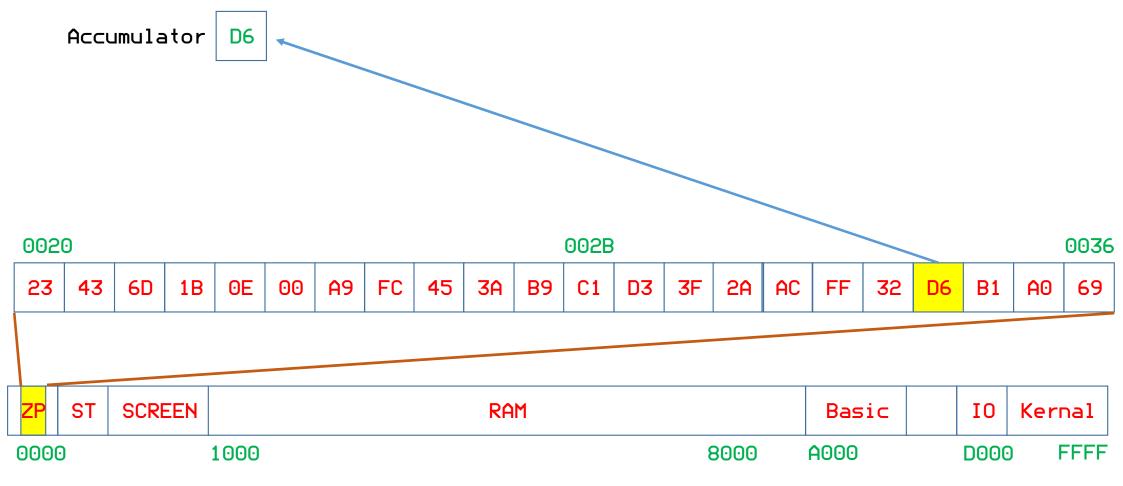
1 set

0 cleared

M6 memory bit 6 M7 memory bit 7

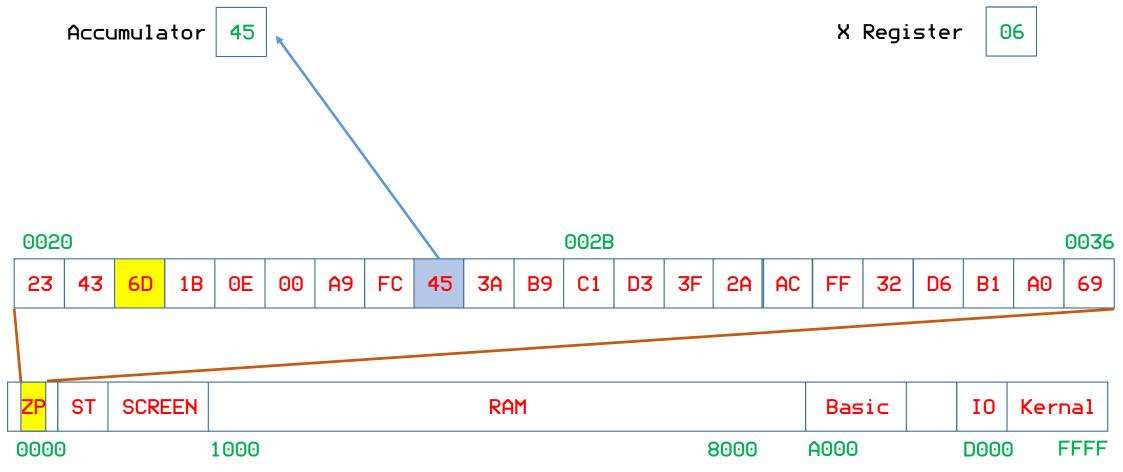
Zero Page Mode

LDA \$32



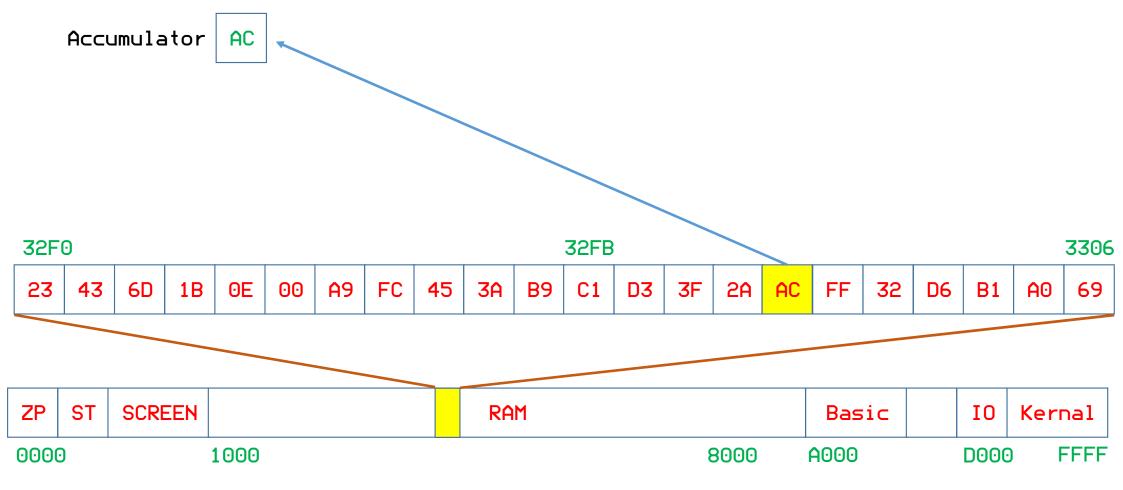
Zero Page, X Indexed Mode

LDA \$22,X



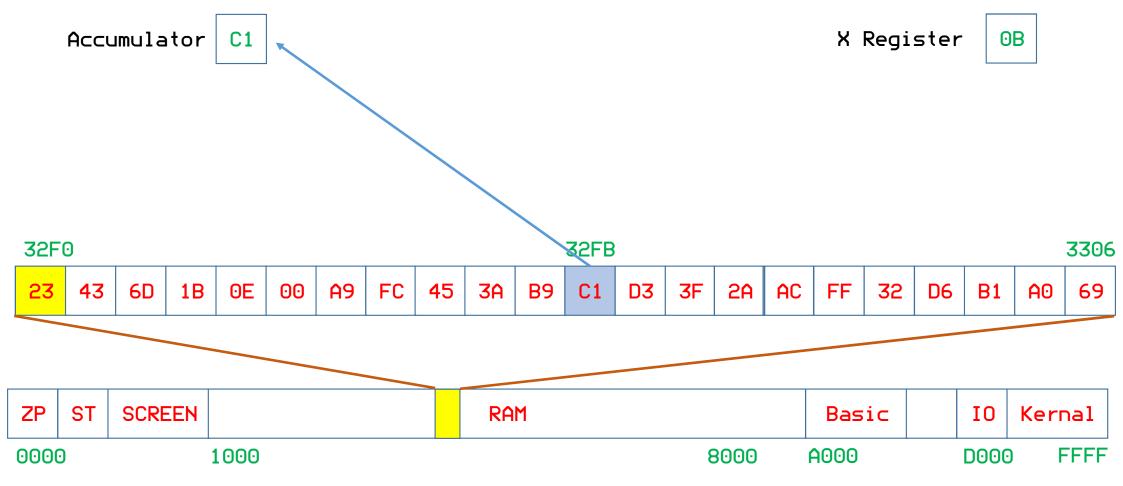
Absolute Mode

LDA \$32FF



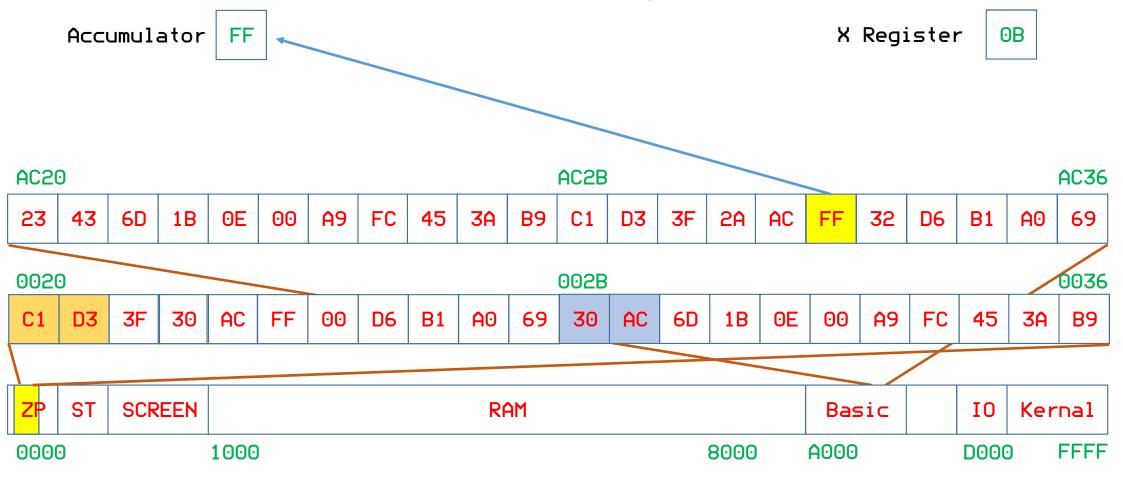
Absolute, X Indexed Mode

LDA \$32F0,X



X Indexed, Indirect Mode

LDA (\$20,X)



Indirect, Y Indexed Mode

LDA (\$20), Y

