

6502 INSTRUCTIONS

Modes		BEQ NUBDIZC		JSR NUBDIZC		SBC NUBDIZC	
Modes		Branch on Equal		Jump to SubRoutine		Subtract with Carry	
Ac Accumulator		Lb 2+		Ab 6		Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+	
Lb Label LABEL		BRK NUBDIZC		LDA NUBDIZC		STA NUBDIZC	
Im Immediate #s12		BRaK		LoaD Accumulator		SToRe Accumulator	
Z Zero Page s12		Im 7		Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Z 3 Zx 4 Ab 4 Ax 5 Ay 5 Ix 6 Iy 6	
Zx Zero Page,X s12,X		CMP NUBDIZC		LDX NUBDIZC		TXS NUBDIZC	
Zy Zero Page,Y s12,Y		CoMPare accumulator		LoaD X register		TranSfer X to Stack	
Ab Absolute s1234		Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Im 2 Z 3 Zy 4 Ab 4 Ay 4+		Im 2	
Ax Absolute,X s1234,X		CPX NUBDIZC		LDY NUBDIZC		INC NUBDIZC	
Ay Absolute,Y s1234,Y		ComPare X register		LoaD Y register		INCRement memory	
In Indirect (s1234)		Im 2 Z 3 Ab 4		Im 2 Z 3 Zx 4 Ab 4 Ax 4+		Z 5 Zx 6 Ab 6 Ax 7	
Ix Indirect,X (s12,X)		CPY NUBDIZC		LSR NUBDIZC		TAY NUBDIZC	
Iy Indirect,Y (s12,Y)		ComPare Y register		LogiCal Shift Right		TranSfer A to Y	
		Im 2 Z 3 Ab 4		A 2 Z 5 Zx 6 Ab 6 Ax 7		Im 2	
ADC NUBDIZC		DEC NUBDIZC		NOP NUBDIZC		TYA NUBDIZC	
ADD with Carry		DECRement memory		No OPeration		TranSfer Y to A	
Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Z 5 Zx 6 Ab 6 Ax 7		Im 2		Im 2	
AND NUBDIZC		EOR NUBDIZC		ORA NUBDIZC		DEV NUBDIZC	
bitwise AND with accumulator		bitwise Exclusive OR		bitwise OR with Accumulator		DECRement Y	
Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Im 2 Z 3 Zx 4 Ab 4 Ax 4+ Ay 4+ Ix 6 Iy 5+		Im 2	
ASL NUBDIZC		CLC NUBDIZC		TAX NUBDIZC		INY NUBDIZC	
ArithmetiC Shift Left		CLear Carry		TranSfer A to X		INCRement Y	
A 2 Z 5 Zx 6 Ab 6 Ax 7		Im 2		Im 2		Im 2	
BIT NUBDIZC		SEC NUBDIZC		TXA NUBDIZC		TSX NUBDIZC	
test BITs		SEt Carry		TranSfer X to A		TranSfer Stack to X	
Z 3 Ab 4		Im 2		Im 2		Im 2	
BPL NUBDIZC		CLI NUBDIZC		DEX NUBDIZC		PHA NUBDIZC	
Branch on PLus		CLear Interrupt		DECRement X		Push Accumulator	
Lb 2+		Im 2		Im 2		Im 3	
BMI NUBDIZC		SEI NUBDIZC		INX NUBDIZC		PLA NUBDIZC	
Branch on MInus		SEt Interrupt		INCRement X		Pull Accumulator	
Lb 2+		Im 2		Im 2		Im 4	
BUC NUBDIZC		CLV NUBDIZC		ROL NUBDIZC		PHP NUBDIZC	
Branch on oVerflow		CLear oVerflow		ROtate Left		Push Processor status	
Clear		Im 2		A 2 Z 5 Zx 6 Ab 6 Ax 7		Im 3	
Lb 2+		GLD NUBDIZC		ROR NUBDIZC		PLP NUBDIZC	
BUS NUBDIZC		CLear Decimal		ROtate Right		Pull Processor status	
Branch on oVerflow		Im 2		A 2 Z 5 Zx 6 Ab 6 Ax 7		Im 4	
Set		SED NUBDIZC		RTI NUBDIZC		STX NUBDIZC	
Lb 2+		SEt Decimal		ReTurn from Interrupt		SToRe X register	
BCC NUBDIZC		Im 2		Im 6		Z 3 Zy 4 Ab 4	
Branch on Carry		JMP NUBDIZC		RTS NUBDIZC		STY NUBDIZC	
Clear		JuMP		ReTurn from Subroutine		SToRe Y register	
Lb 2+		Ab 3 In 5		Im 6		Z 3 Zx 4 Ab 4	