6502 Machine Language Hex Codes

		Immediate	*Accumulator*	*Zero Page*	*Zero Page,X*	*Zero Page,Y*	*Absolute*	*Absolute,X*	*Absolute,Y*	*Indirect*	*(Zero Page,X)*	*(Zero Page),Y*	*Implied*	*Relative*	*Affects Flags*
ADC	Add with Carry	69		65	75		6D	7D	79		61	71			N,V,Z,C
AND	Bitwise AND with Accumulator	29		25	35		2D	3D	39		21	31			N,Z
ASL	Arithmetic Shift Left		0A	06	16		0E	1E							N,Z,C
BCC	Branch on Carry Clear													90	
BCS	Branch on Carry Set													B0	
BEQ	Branch on Equal													F0	
BIT	Test Bits			24			2C								N,V,Z
BMI	Branch on Minus													30	
BNE	Branch on Not Equal													D0	
BPL	Branch on Plus													10	
BRK	Break												00		B
BVC	Branch on Overflow Clear													50	
BVS	Branch on Overflow Set													70	
CLC	Clear Carry												18		C
CLD	Clear Decimal												D8		D
CLI	Clear Interrupt												58		I
CLV	Clear Overflow												B8		V
CMP	Compare Accumulator	C9		C5	D5		CD	DD	D9		C1	D1			N,Z,C
CPX	Compare X Register	E0		E4			EC								N,Z,C
CPY	Compare Y Register	C0		C4			CC								N,Z,C
DEC	Decrement Memory			C6	D6		CE	DE							N,Z
DEX	Decrement X												CA		N,Z
DEY	Decrement Y												88		N,Z
EOR	Bitwise Exclusive OR	49		45	55		4D	5D	59		41	51			N,Z
INC	Increment Memory			E6	F6		EE	FE							N,Z
INX	Increment X												E8		N,Z
INY	Increment Y												C8		N,Z
JMP	Jump						4C			6C					
JSR	Jump to Subroutine						20								
LDA	Load Accumulator	A9		A5	B5		AD	BD	B9		A1	B1			N,Z
LDX	Load X Register	A2		A6	B6		AE		BE						N,Z
LDY	Load Y Register	A0		A4	B4		AC	BC							N,Z
LSR	Logical Shift Right		4A	46	56		4E	5E							N,Z,C
NOP	No Operation												EA		
ORA	Bitwise OR with Accumulator	09		05	15		0D	1D	19		01	11			N,Z
PHA	Push Accumulator to Stack												48		
PHP	Push Processor Status to Stack												08		
PLA	Pull Accumulator off Stack												68		N,Z
PLP	Pull Processor Status off Stack												28		All
ROL	Rotate Left		2A	26	36		2E	3E							N,Z,C
ROR	Rotate Right		6A	66	76		6E	7E							N,Z,C
RTI	Return from Interrupt												40		All
RTS	Return from Subroutine												60		
SBC	Subtract with Carry	E9		E5	F5		ED	FD	F9		E1	F1			N,V,Z,C
SEC	Set Carry												38		C
SED	Set Decimal												F8		D
SEI	Set Interrupt												78		I
STA	Store Accumulator			85	95		8D	9D	99		81	91			
STX	Store X Register			86		96	8E								
STY	Store Y Register			84	94		8C								
TAX	Transfer A to X												AA		N,Z
TAY	Transfer A to Y												A8		N,Z
TSX	Transfer Stack Pointer to X												BA		
TXA	Transfer X to A												8A		N,Z
TXS	Transfer X to Stack Pointer												9A		
TYA	Transfer Y to A												98		N,Z