6502 Quick Reference Card

Instruction	NV-BDIZC	0р		Byt	Instruction	NV-BDIZC	0p	Сус	_	
ADC #nn	N V Z C	69	2	2	LDA #nn	N Z -	a9	2	2	
ADC \$nn	N V Z C	65	3	2	LDA \$nn	N Z -	a5	3	2	_
ADC \$nn,X	N V Z C	75	4	2	LDA \$nn,X	N Z -	b5	4	2	Ā
ADC \$nnnn ADC \$nnnn,X	N V Z C N V Z C	6d 7d	4 4+	3	LDA \$nnnn LDA \$nnnn, X	N Z - N Z -	ad bd	4 4+	3	Α
ADC \$nnnn, Y	N V Z C	70 79	4+	3	LDA \$nnnn, Y	N Z -	bu b9	4+	3	Α
ADC (\$nn,X)	N V Z C	61	6	2	LDA (\$nn,X)	N Z -	a1	6	2	Α
ADC (\$nn),Y	N V Z C	71	5+	2	LDA (\$nn), Y	N Z -	b1	5+	2	
AND #nn	N Z -	29	2	2	LDX #nn	N Z -	a2	2	2	Α
AND \$nn	N Z -	25	3	2	LDX \$nn	N Z -	a6	3	2	Α
AND \$nn,X	N Z -	35	4	2	LDX \$nn,Y	N Z -	b6	4	2	
AND \$nnnn	N Z -	2d	4	3	LDX \$nnnn	N Z -	ae	4	3	
AND \$nnnn,X	N Z -	3d	4+	3	LDX \$nnnn, Y	N Z -	be	4+	3	
AND \$nnnn, Y	N Z -	39	4+	3	LDY #nn	N Z -	a0	2	2	
AND (\$nn,X)	N Z -	21	6	2	LDY \$nn	N Z -	a4	3	2	
AND (\$nn),Y	N Z -	31	5+	2	LDY \$nn,X	N Z -	b4	4	2	
ASL	N Z C	0a	2	1	LDY \$nnnn	N Z -	ac	4	3	
ASL \$nn	N Z C	06	5	2	LDY \$nnnn, X	N Z -	bc	4+	3	
ASL \$nn,X	N Z C	16	6	2	LSR	N Z C	4a	2	1	
ASL \$nnnn	N Z C	0e	6	3	LSR \$nn	N Z C	46	5	2	
ASL \$nnnn,X	N Z C	1e	7	3	LSR \$nn,X	N Z C	56	6	2	
BCC		90	2+	2	LSR \$nnnn	N Z C	4e	6	3	
BCS		b0	2+	2	LSR \$nnnn, X	N Z C	5e	7	3	
BEQ BMI		f0 30	2+ 2+	2	NOP ORA #nn	N Z -	ea 09	2	1 2	
BNE		d0	2+	2	ORA \$nn	N Z -	05	3	2	
BVC		50	2+	2	ORA \$nn,X	N Z -	15	4	2	
BVS		70	2+	2	ORA \$nnnn	N Z -	0d	4	3	
BPL		10	2+	2	ORA \$nnnn, X	N Z -	1d	4+	3	
BIT \$nn	N V Z -	24	3	2	ORA \$nnnn, Y	N Z -	19	4+	3	
BIT \$nnnn	N V Z -	2c	4	3	ORA (\$nn, X)	N Z -	01	6	2	
BRK	1 - 1	00	7	1	ORA (\$nn), Y	N Z -	11	5+	2	
CLC	0	18	2	1	PHA		48	3	1	
CLD	0	d8	2	1	PHP		08	3	1	
CLI	0	58	2	1	PLA	N Z -	68	4	1	
CLV	- 0	b8	2	1	PLP	NVDIZC	28	4	1	
CMP #nn	N Z C	с9	2	2	ROL	N Z C	2a	2	1	
CMP \$nn	N Z C	c5	3	2	ROL \$nn	N Z C	26	5	2	
CMP \$nn,X	N Z C	d5	4	2	ROL \$nn,X	N Z C	36	6	2	
CMP \$nnnn	N Z C	cd	4	3	ROL \$nnnn	N Z C	2e	6	3	
CMP \$nnnn, X	N Z C	dd	4+	3	ROL \$nnnn, X	N Z C	3e	7	3	
CMP \$nnnn, Y	N Z C	d9	4+	3	ROR	N Z C	6a	2	1	
CMP (\$nn,X)	N Z C	c1	6	2	ROR \$nn	N Z C	66	5	2	
CMP (\$nn),Y	N Z C	d1 e0	5+ 2	2	ROR \$nn,X	N Z C N Z C	76 6e	6 6	3	
CPX \$nn	N Z C	e4	3	2	ROR \$nnnn, X	N Z C N Z C	7e	7	3	
CPX \$nnnn	N Z C	ec	4	3	RTI	NVDIZC	40	6	1	
CPY #nn	N Z C	<u>c0</u>	2	2	RTS	N V D I Z C	60	6	1	
CPY \$nn	N Z C	c4	3	2	SBC #nn	N V Z C	e9	2	2	
CPY \$nnnn	N Z C	CC	4	3	SBC \$nn	N V Z C	e5	3	2	
DEC \$nn	N Z -	c6	5	2	SBC \$nn, X	N V Z C	f5	4	2	
DEC \$nn,X	N Z -	d6	6	2	SBC \$nnnn	N V Z C	ed	4	3	
DEC \$nnnn	N Z -	се	3	3	SBC \$nnnn,X	N V Z C	fd	4+	3	
DEC \$nnnn,X	N Z -	de	7	3	SBC \$nnnn, Y	N V Z C	f9	4+	3	
DEX	N Z -	ca	2	1	SBC (\$nn,X)	N V Z C	e1	6	2	
DEY	N Z -	88	2	1	SBC (\$nn),Y	N V Z C	f1	5+	2	
EOR #nn	N Z -	49	2	2	SEC	1	38	2	1	
EOR \$nn	N Z -	45	3	2	SED	1	f8	2	1	
EOR \$nn,X	N Z -	55	4	2	SEI	1	78	2	1	
EOR \$nnnn	N Z -	4d	4	3	STA \$nn		85	3	2	
EOR \$nnnn,X	N Z -	5d	4+	3	STA \$nn,X		95	4	2	
EOR \$nnnn, Y	N Z -	59 41	4+ 6	3	STA \$nnnn		9d	4	3	
EOR (\$nn,X)	N Z -	41 51	6 5±	2	STA \$nnnn, X		9d	5 5	3	
EOR (\$nn),Y	N Z -	51 e6	5+ 5	2	STA \$nnnn, Y		99 81	6	2	
INC \$nn INC \$nn,X	N Z -	f6	6	2	STA (\$nn,X) STA (\$nn),Y		91	6	2	
INC \$nnnn	N Z -	ee	6	3	STX \$nn		86	3	2	
INC \$nnnn,X	N Z -	fe	7	3	STX \$nn, Y		96	4	2	
INX	N Z -	e8	2	1	STX \$nnnn		8e	4	3	
INY	N Z -	c8	2	1	STY \$nn		84	3	2	
JMP \$nnnn		4c	3	3	STY \$nn, X		94	4	2	
JMP (\$nnnn)		6c	5	3	STY \$nnnn		8c	4	3	
JSR \$nnnn		20	6	3	TAX	N Z -	aa	2	1	
					TAY	N Z -	a8	2	1	
	TRA CYCLE	S			TSX	N Z -	ba	2	1	
EX	THE COLUMN									
EX BRANCHES: +1			take	en &	TXA	N Z -	8a	2	1	
BRANCHES: +1	if taken, +2 osses page bo	if unda	ary			N Z - Z - N Z -	8a 9a 98	2 2 2	1 1 1	

	Unsigned	Signed				
	CMP #nn	SEC SBC #nn				
A = nn A != nn		BEQ y BNE y				
A < nn	BCC y	BVS ? [y & BMI y n & BMI n				
A <= nn	BCC y BEQ y					
A >= nn	BCS y	BVS ? [n & BMI y y & BMI n				
A > nn	BEQ n & BCS y					