6502 Quick Reference Card

Instruction	NV-BDIZC	0р	Сус	Byt	Instruction	NV-BDIZC	0р	Сус	Byt
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
	N V Z C		4	3		N Z -		4	3
ADC \$nnnn		6d			LDA \$nnnn		ad		
ADC \$nnnn,X	N V Z C	7d	4+	3	LDA \$nnnn,X	N Z -	bd	4+	3
ADC \$nnnn,Y	N V Z C	79	4+	3	LDA \$nnnn,Y	N Z -	b9	4+	3
ADC (\$nn,X)	N V Z C	61	6	2	LDA (\$nn,X)	N Z -	al	6	2
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
AND \$nn	N Z -	25	3	2	LDX \$nn	N Z -	a6	3	2
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
	N Z -	21	6	2	LDY \$nn	N Z -	a4	3	2
AND (\$nn,X)	N Z -			2					
AND (\$nn),Y		31	5+		LDY \$nn,X		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		f0	2+	2	NOP		ea	2	ĭ
BMI		30	2+	2	ORA #nn	N Z -	09	2	2
BNE		d0	2+	2	ORA \$nn	N Z -	05	3	2
									2
BVC		50	2+	2	ORA \$nn,X	N Z -	15	4	
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		80	3	1
CLI	0	58	2	1	PLA	N Z -	68	4	1
CLV	- 0	b8	2	ī	PLP	NVDIZC	28	4	ī
CMP #nn	N Z C	c9	2	2	ROL	N Z C	2a	2	1
			3	2					
CMP \$nn	N Z C	c5			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	5+	2	ROR \$nn,X	N Z C	76	6	2
CPX #nn	N Z C	e0	2	2	ROR \$nnnn	N Z C	6e	6	3
CPX \$nn	N Z C	e4	3	2	ROR \$nnnn,X	N Z C	7e	7	3
CPX \$nnnn	N Z C	ec	4	3	RTI	NVDIZC	40	6	1
CPY #nn	N Z C	c0	2	2	RTS		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	2	SBC \$nn	N V Z C	e5	3	2
	N Z -		5						
DEC \$nn	N Z -	95 C6	_	2	SBC \$nn,X	N V Z C N V Z C	f5	4	2
DEC \$nn,X		d6	6	2	SBC \$nnnn		ed	4	3
DEC \$nnnn	N Z -	ce	3	3	SBC \$nnnn,X	N V Z C	fd	4+	
DEC \$nnnn,X	N Z -	de	7	3	SBC \$nnnn,Y		f9	4+	3
DEX	N Z -	ca	2	1	SBC (\$nn,X)	N V Z C	e1	6	2
DEY	N Z -	88	2	<u></u>	SBC (\$nn),Y	N V Z C	<u>f1</u>	<u>5+</u>	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	4+	3	STA \$nnnn		8d	4	3
EOR (\$nn,X)	N Z -	41	6	2	STA \$nnnn,X		9d	5	3
EOR (\$nn),Y	N Z -	51	5+	2	STA \$nnnn,Y		99	5	3
INC \$nn	N Z -	e6	5	2			81	6	2
	N Z -			2	STA (\$nn,X)		91	6	2
INC \$nn,X		f6	6		STA (\$nn),Y				
INC \$nnnn	N Z -	ee	6	3	STX \$nn		86	3	2
INC \$nnnn,X		fe	7	3	STX \$nn,Y		96	4	2
INX	N Z -	e8	2	1	STX \$nnnn		8e	4	3
INY	N Z -	<u>c8</u>	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
			-	-	-:-\Y	N Z -	a8	2	ī
EX	TRA CYCLE	S			TSX	N Z -	ba	2	i
	if taken, +2		take	en &	TXA	N Z -	8a	2	1
	osses page bo			u	TXS		9a	2	1
	if across pa			larv	TYA	N Z -	98	2	1
	ac. oss pa	<i>3</i> - 1		y	117	2 -	50	_	

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