

	a/imp	imm	zero	zerex	zeroy	abs	absx	absy	indx	indy	ind	NV1BD1ZC
lda	---	a9 2	a5 3	b5 4	---	ad 4	bd 4*	b9 4*	a1 6	b1 5*	---	N- - - - Z
ldy	---	a9 2	a5 3	b6 4	---	ae 4	bd 4*	be 4*	---	---	---	N- - - - Z
ldx	---	a9 2	a5 3	b4 4	---	ac 4	bc 4*	be 4*	---	---	---	N- - - - Z
sta	---	85 3	95 4	---	8d 4	9d 5	99 5	81 6	91 6	---	---	N- - - - Z
sty	---	84 3	94 4	---	8e 4	---	---	---	---	---	---	N- - - - Z
adc	---	e9 2	e5 3	f5 4	---	ed 4	fd 4*	f9 4*	e1 6	f1 5*	---	NV- - - - ZC
sbc	---	e9 2	e5 3	f5 4	---	ed 4	fd 4*	f9 4*	e1 6	f1 5*	---	NV- - - - ZC
cmp	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
cpb	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
cpd	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
and	---	29 2	25 3	35 4	---	2d 4	3d 4*	39 4*	21 6	31 5*	---	N- - - - Z
ora	---	29 2	25 3	35 4	---	2d 4	3d 4*	39 4*	21 6	31 5*	---	N- - - - Z
eor	---	49 2	45 3	55 4	---	4d 4	5d 4*	59 4*	41 6	51 5*	---	N- - - - Z
bit	---	49 2	45 3	55 4	---	4d 4	5d 4*	59 4*	41 6	51 5*	---	N- - - - Z
asl	0a 2	---	06 5	16 6	---	0e 6	1e 7	---	---	---	---	N- - - - ZC
lsl	4a 2	---	06 5	16 6	---	0e 6	1e 7	---	---	---	---	N- - - - ZC
rol	2a 2	---	26 5	36 6	---	2e 6	3e 7	---	---	---	---	N- - - - ZC
ror	6a 2	---	66 5	76 6	---	6e 6	7e 7	---	---	---	---	N- - - - ZC
inc	---	---	e6 5	f6 6	---	ee 6	fe 7	---	---	---	---	N- - - - Z
inx	e8 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
imx	e8 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
dec	ca 2	---	c6 5	d6 6	---	ce 6	de 7	---	---	---	---	N- - - - Z
dex	ca 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
dey	88 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
jmp	---	---	---	---	---	4c 3	---	---	---	6c 5	---	---
jsr	60 6	---	---	---	---	20 6	---	---	---	---	---	---
rts	40 6	---	---	---	---	---	---	---	---	---	---	---
rti	40 6	---	---	---	---	---	---	---	---	---	---	---

	imp/re	NV1BD1ZC
tax	aa 2 N- - - - Z	
txa	8a 2 N- - - - Z	
ldy	a0 2 N- - - - Z	
ldx	a0 2 N- - - - Z	
sta	9a 2 N- - - - Z	
sty	9a 2 N- - - - Z	
txs	9a 2 N- - - - Z	
tsx	ba 2 N- - - - Z	
clv	b8 2 -0- - - -	
clb	d8 2 -0- - - -	
cli	58 2 -0- - - -	
clc	18 2 -0- - - -	
sed	f8 2 -1- - - -	
sei	78 2 -1- - - -	
sec	38 2 -1- - - -	
nop	ea 2 -1- - - -	
brk	00 7 -1- - - -	
pha	48 3 N- - - - Z	
pla	68 4 N- - - - Z	
lsr	08 3 N- - - - Z	
rol	28 4 (Stack)	
plp	28 4 (Stack)	
bpl	10 2**	
bmi	30 2**	
bvc	50 2**	
bvs	70 2**	
bne	d0 2**	
beq	f0 2**	
bcc	90 2**	
bcs	b0 2**	

6502 Instruction set

	a/imp	imm	zero	zerex	zeroy	abs	absx	absy	indx	indy	ind	NV1BD1ZC
lda	---	a9 2	a5 3	b5 4	---	ad 4	bd 4*	b9 4*	a1 6	b1 5*	---	N- - - - Z
ldy	---	a9 2	a5 3	b6 4	---	ae 4	bd 4*	be 4*	---	---	---	N- - - - Z
ldx	---	a9 2	a5 3	b4 4	---	ac 4	bc 4*	be 4*	---	---	---	N- - - - Z
sta	---	85 3	95 4	---	8d 4	9d 5	99 5	81 6	91 6	---	---	N- - - - Z
sty	---	84 3	94 4	---	8e 4	---	---	---	---	---	---	N- - - - Z
adc	---	e9 2	e5 3	f5 4	---	ed 4	fd 4*	f9 4*	e1 6	f1 5*	---	NV- - - - ZC
sbc	---	e9 2	e5 3	f5 4	---	ed 4	fd 4*	f9 4*	e1 6	f1 5*	---	NV- - - - ZC
cmp	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
cpb	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
cpd	---	e9 2	e5 3	d5 4	---	cd 4	dd 4*	d9 4*	c1 6	d1 5*	---	N- - - - ZC
and	---	29 2	25 3	35 4	---	2d 4	3d 4*	39 4*	21 6	31 5*	---	N- - - - Z
ora	---	29 2	25 3	35 4	---	2d 4	3d 4*	39 4*	21 6	31 5*	---	N- - - - Z
eor	---	49 2	45 3	55 4	---	4d 4	5d 4*	59 4*	41 6	51 5*	---	N- - - - Z
bit	---	49 2	45 3	55 4	---	4d 4	5d 4*	59 4*	41 6	51 5*	---	N- - - - Z
asl	0a 2	---	06 5	16 6	---	0e 6	1e 7	---	---	---	---	N- - - - ZC
lsl	4a 2	---	06 5	16 6	---	0e 6	1e 7	---	---	---	---	N- - - - ZC
rol	2a 2	---	26 5	36 6	---	2e 6	3e 7	---	---	---	---	N- - - - ZC
ror	6a 2	---	66 5	76 6	---	6e 6	7e 7	---	---	---	---	N- - - - ZC
inc	---	---	e6 5	f6 6	---	ee 6	fe 7	---	---	---	---	N- - - - Z
inx	e8 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
imx	e8 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
dec	ca 2	---	c6 5	d6 6	---	ce 6	de 7	---	---	---	---	N- - - - Z
dex	ca 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
dey	88 2	---	---	---	---	---	---	---	---	---	---	N- - - - Z
jmp	---	---	---	---	---	4c 3	---	---	---	6c 5	---	---
jsr	60 6	---	---	---	---	20 6	---	---	---	---	---	---
rts	40 6	---	---	---	---	---	---	---	---	---	---	---
rti	40 6	---	---	---	---	---	---	---	---	---	---	---

	imp/re	NV1BD1ZC
tax	aa 2 N- - - - Z	
txa	8a 2 N- - - - Z	
ldy	a0 2 N- - - - Z	
ldx	a0 2 N- - - - Z	
sta	9a 2 N- - - - Z	
sty	9a 2 N- - - - Z	
txs	9a 2 N- - - - Z	
tsx	ba 2 N- - - - Z	
clv	b8 2 -0- - - -	
clb	d8 2 -0- - - -	
cli	58 2 -0- - - -	
clc	18 2 -0- - - -	
sed	f8 2 -1- - - -	
sei	78 2 -1- - - -	
sec	38 2 -1- - - -	
nop	ea 2 -1- - - -	
brk	00 7 -1- - - -	
pha	48 3 N- - - - Z	
pla	68 4 N- - - - Z	
lsl	08 3 N- - - - Z	
rol	28 4 (Stack)	
plp	28 4 (Stack)	
bpl	10 2**	
bmi	30 2**	
bvc	50 2**	
bvs	70 2**	
bne	d0 2**	
beq	f0 2**	
bcc	90 2**	
bcs	b0 2**	

6502 Instruction set