

	adc		adc		adc		
	add with carry		add with carry		add with carry		
	2 bytes		2 bytes		2 bytes		
	2 cycles		3 cycles		4 cycles		
	immediate mode		zero page mode		zero page, X mode		
	Example: adc #42		Example: adc \$12		Example: adc \$12,X		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	adc		adc		adc		
	add with carry		add with carry		add with carry		
	3 bytes		3 bytes		3 bytes		
	4 cycles		4/5 cycles		4/5 cycles		
	absolute mode		absolute, X mode		absolute, Y mode		
	Example: adc \$1234		Example: adc \$1234,X		Example: adc \$1234,Y		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	adc		adc		and		
	add with carry		add with carry		AND with accumulator		
	2 bytes		2 bytes		2 bytes		
	6 cycles		5/6 cycles		2 cycles		
	pre-indexed indirect mode		post-indexed indirect mode		immediate mode		
	Example: adc (\$12,X)		Example: adc (\$12),Y		Example: and #42		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		

	<div>andandand</div>		
	<div>AND with accumulator</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: and \$12</div> <div>N V B D I Z C</div>	<div>AND with accumulator</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: and \$12,X</div> <div>N V B D I Z C</div>	<div>AND with accumulator</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: and \$1234</div> <div>N V B D I Z C</div>
	<div>andandand</div>		
	<div>AND with accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, X mode</div> <div>Example: and \$1234,X</div> <div>N V B D I Z C</div>	<div>AND with accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, Y mode</div> <div>Example: and \$1234,Y</div> <div>N V B D I Z C</div>	<div>AND with accumulator</div> <div>2 bytes6 cycles</div> <div>pre-indexed indirect mode</div> <div>Example: and (\$12,X)</div> <div>N V B D I Z C</div>
	<div>andaslasl</div>		
	<div>AND with accumulator</div> <div>2 bytes5/6 cycles</div> <div>post-indexed indirect mode</div> <div>Example: and (\$12),Y</div> <div>N V B D I Z C</div>	<div>arithmetic shift left</div> <div>1 byte2 cycles</div> <div>accumulator mode</div> <div>Example: asl</div> <div>N V B D I Z C</div>	<div>arithmetic shift left</div> <div>2 bytes5 cycles</div> <div>zero page mode</div> <div>Example: asl \$12</div> <div>N V B D I Z C</div>

	<div>asl</div> <div>asl</div> <div>asl</div>		
	<div>arithmetic shift left</div> <div>2 bytes6 cycles</div> <div>zero page, X mode</div> <div>Example: asl \$12,X</div> <div>N V B D I Z C</div>	<div>arithmetic shift left</div> <div>3 bytes6 cycles</div> <div>absolute mode</div> <div>Example: asl \$1234</div> <div>N V B D I Z C</div>	<div>arithmetic shift left</div> <div>3 bytes7 cycles</div> <div>absolute, X mode</div> <div>Example: asl \$1234,X</div> <div>N V B D I Z C</div>
	<div>bcc</div> <div>bcs</div> <div>beq</div>		
	<div>branch if carry clear</div> <div>2 bytes2-4 cycles</div> <div>relative mode</div> <div>Example: bcc foo</div> <div>N V B D I Z C</div>	<div>branch if carry set</div> <div>2 bytes2-4 cycles</div> <div>relative mode</div> <div>Example: bcs foo</div> <div>N V B D I Z C</div>	<div>branch if equal</div> <div>2 bytes2-4 cycles</div> <div>relative mode</div> <div>Example: beq foo</div> <div>N V B D I Z C</div>
	<div>bit</div> <div>bit</div> <div>bmi</div>		
	<div>bit test</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: bit \$12</div> <div>N V B D I Z C</div>	<div>bit test</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: bit \$1234</div> <div>N V B D I Z C</div>	<div>branch if minus</div> <div>2 bytes2-4 cycles</div> <div>relative mode</div> <div>Example: bmi foo</div> <div>N V B D I Z C</div>

	<div> <div>bne</div> <div>bpl</div> <div>brk</div> </div>		
	<div>branch if not equal</div> <div> <div>2 bytes</div> <div>2-4 cycles</div> </div> <div>relative mode</div> <div>Example: bne foo</div> <div>N V B D I Z C</div>	<div>branch if plus</div> <div> <div>2 bytes</div> <div>2-4 cycles</div> </div> <div>relative mode</div> <div>Example: bpl foo</div> <div>N V B D I Z C</div>	<div>break</div> <div> <div>1 byte</div> <div>7 cycles</div> </div> <div>implied mode</div> <div>Example: brk</div> <div>N V B D I Z C</div>
	<div> <div>bvc</div> <div>bvs</div> <div>clc</div> </div>		
	<div>branch if overflow clear</div> <div> <div>2 bytes</div> <div>2-4 cycles</div> </div> <div>relative mode</div> <div>Example: bvc foo</div> <div>N V B D I Z C</div>	<div>branch if overflow set</div> <div> <div>2 bytes</div> <div>2-4 cycles</div> </div> <div>relative mode</div> <div>Example: bvs foo</div> <div>N V B D I Z C</div>	<div>clear carry</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: clc</div> <div>N V B D I Z C</div>
	<div> <div>cld</div> <div>cli</div> <div>clv</div> </div>		
	<div>clear decimal mode</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: cld</div> <div>N V B D I Z C</div>	<div>enable interrupts</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: cli</div> <div>N V B D I Z C</div>	<div>clear overflow</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: clv</div> <div>N V B D I Z C</div>

	cmp		cmp		cmp		
	compare accumulator		compare accumulator		compare accumulator		
	2 bytes		2 bytes		2 bytes		
	2 cycles		3 cycles		4 cycles		
	immediate mode		zero page mode		zero page, X mode		
	Example: cmp #42		Example: cmp \$12		Example: cmp \$12,X		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	cmp		cmp		cmp		
	compare accumulator		compare accumulator		compare accumulator		
	3 bytes		3 bytes		3 bytes		
	4 cycles		4/5 cycles		4/5 cycles		
	absolute mode		absolute, X mode		absolute, Y mode		
	Example: cmp \$1234		Example: cmp \$1234,X		Example: cmp \$1234,Y		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	cmp		cmp		cpx		
	compare accumulator		compare accumulator		compare X register		
	2 bytes		2 bytes		2 bytes		
	6 cycles		5/6 cycles		2 cycles		
	pre-indexed indirect mode		post-indexed indirect mode		immediate mode		
	Example: cmp (\$12,X)		Example: cmp (\$12),Y		Example: cpx #42		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		

	cpx		cpx		cpy		
	compare X register		compare X register		compare Y register		
	2 bytes		3 bytes		2 bytes		
	3 cycles		4 cycles		2 cycles		
	zero page mode		absolute mode		immediate mode		
	Example: cpx \$12		Example: cpx \$1234		Example: cpy #42		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	cpy		cpy		dec		
	compare Y register		compare Y register		decrement memory		
	2 bytes		3 bytes		2 bytes		
	3 cycles		4 cycles		5 cycles		
	zero page mode		absolute mode		zero page mode		
	Example: cpy \$12		Example: cpy \$1234		Example: dec \$12		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		
	dec		dec		dec		
	decrement memory		decrement memory		decrement memory		
	2 bytes		3 bytes		3 bytes		
	6 cycles		6 cycles		7 cycles		
	zero page, X mode		absolute mode		absolute, X mode		
	Example: dec \$12,X		Example: dec \$1234		Example: dec \$1234,X		
	N V B D I Z C		N V B D I Z C		N V B D I Z C		

	<div> <div>dex</div> <div>dey</div> <div>eor</div> </div>		
	<div>decrement X register</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: dex</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>decrement Y register</div> <div> <div>1 byte</div> <div>2 cycles</div> </div> <div>implied mode</div> <div>Example: dey</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>EOR with accumulator</div> <div> <div>2 bytes</div> <div>2 cycles</div> </div> <div>immediate mode</div> <div>Example: eor #42</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>
	<div> <div>eor</div> <div>eor</div> <div>eor</div> </div>		
	<div>EOR with accumulator</div> <div> <div>2 bytes</div> <div>3 cycles</div> </div> <div>zero page mode</div> <div>Example: eor \$12</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>EOR with accumulator</div> <div> <div>2 bytes</div> <div>4 cycles</div> </div> <div>zero page, X mode</div> <div>Example: eor \$12,X</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>EOR with accumulator</div> <div> <div>3 bytes</div> <div>4 cycles</div> </div> <div>absolute mode</div> <div>Example: eor \$1234</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>
	<div> <div>eor</div> <div>eor</div> <div>eor</div> </div>		
	<div>EOR with accumulator</div> <div> <div>3 bytes</div> <div>4/5 cycles</div> </div> <div>absolute, X mode</div> <div>Example: eor \$1234,X</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>EOR with accumulator</div> <div> <div>3 bytes</div> <div>4/5 cycles</div> </div> <div>absolute, Y mode</div> <div>Example: eor \$1234,Y</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>EOR with accumulator</div> <div> <div>2 bytes</div> <div>6 cycles</div> </div> <div>pre-indexed indirect mode</div> <div>Example: eor (\$12,X)</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>

	eor			inc			inc							
	EOR with accumulator			increment memory			increment memory							
	2 bytes		5/6 cycles		2 bytes		5 cycles		2 bytes		6 cycles			
	post-indexed indirect mode			zero page mode			zero page, X mode							
	Example: eor (\$12),Y			Example: inc \$12			Example: inc \$12,X							
	N	V	B	D	I	Z	C	N	V	B	D	I	Z	C
	inc			inc			inx							
	increment memory			increment memory			increment X register							
	3 bytes		6 cycles		3 bytes		7 cycles		1 byte		2 cycles			
	absolute mode			absolute, X mode			implied mode							
	Example: inc \$1234			Example: inc \$1234,X			Example: inx							
	N	V	B	D	I	Z	C	N	V	B	D	I	Z	C
	iny			jmp			jmp							
	increment Y register			jump			jump							
	1 byte		2 cycles		3 bytes		3 cycles		3 bytes		5 cycles			
	implied mode			absolute mode			indirect mode							
	Example: iny			Example: jmp \$1234			Example: jmp (\$1234)							
	N	V	B	D	I	Z	C	N	V	B	D	I	Z	C

	<div>jsrldalda</div>		
	<div>jump to subroutine</div> <div>3 bytes6 cycles</div> <div>absolute mode</div> <div>Example: jsr \$1234</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>2 bytes2 cycles</div> <div>immediate mode</div> <div>Example: lda #42</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: lda \$12</div> <div>NVBDIZC</div>
	<div>ldaldaldald</div>		
	<div>load accumulator</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: lda \$12,X</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: lda \$1234</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, X mode</div> <div>Example: lda \$1234,X</div> <div>NVBDIZC</div>
	<div>ldaldaldald</div>		
	<div>load accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, Y mode</div> <div>Example: lda \$1234,Y</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>2 bytes6 cycles</div> <div>pre-indexed indirect mode</div> <div>Example: lda (\$12,X)</div> <div>NVBDIZC</div>	<div>load accumulator</div> <div>2 bytes5/6 cycles</div> <div>post-indexed indirect mode</div> <div>Example: lda (\$12),Y</div> <div>NVBDIZC</div>

	<div>ldx</div> <div>ldx</div> <div>ldx</div>		
	<div>load X register</div> <div>2 bytes2 cycles</div> <div>immediate mode</div> <div>Example: ldx #42</div> <div>NVBDIZC</div>	<div>load X register</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: ldx \$12</div> <div>NVBDIZC</div>	<div>load X register</div> <div>2 bytes4 cycles</div> <div>zero page, Y mode</div> <div>Example: ldx \$12,X</div> <div>NVBDIZC</div>
	<div>ldx</div> <div>ldx</div> <div>ldy</div>		
	<div>load X register</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: ldx \$1234</div> <div>NVBDIZC</div>	<div>load X register</div> <div>3 bytes4/5 cycles</div> <div>absolute, Y mode</div> <div>Example: ldx \$1234,X</div> <div>NVBDIZC</div>	<div>load Y register</div> <div>2 bytes2 cycles</div> <div>immediate mode</div> <div>Example: ldy #42</div> <div>NVBDIZC</div>
	<div>ldy</div> <div>ldy</div> <div>ldy</div>		
	<div>load Y register</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: ldy \$12</div> <div>NVBDIZC</div>	<div>load Y register</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: ldy \$12,X</div> <div>NVBDIZC</div>	<div>load Y register</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: ldy \$1234</div> <div>NVBDIZC</div>

	<div>ldy</div> <div>lsr</div> <div>lsr</div>		
	<div>load Y register</div> <div>3 bytes4/5 cycles</div> <div>absolute, X mode</div> <div>Example: ldy \$1234,X</div> <div>N V B D I Z C</div>	<div>logical shift right</div> <div>1 byte2 cycles</div> <div>accumulator mode</div> <div>Example: lsr</div> <div>N V B D I Z C</div>	<div>logical shift right</div> <div>2 bytes5 cycles</div> <div>zero page mode</div> <div>Example: lsr \$12</div> <div>N V B D I Z C</div>
	<div>lsr</div> <div>lsr</div> <div>lsr</div>		
	<div>logical shift right</div> <div>2 bytes6 cycles</div> <div>zero page, X mode</div> <div>Example: lsr \$12,X</div> <div>N V B D I Z C</div>	<div>logical shift right</div> <div>3 bytes6 cycles</div> <div>absolute mode</div> <div>Example: lsr \$1234</div> <div>N V B D I Z C</div>	<div>logical shift right</div> <div>3 bytes7 cycles</div> <div>absolute, X mode</div> <div>Example: lsr \$1234,X</div> <div>N V B D I Z C</div>
	<div>nop</div> <div>ora</div> <div>ora</div>		
	<div>no operation</div> <div>1 byte2 cycles</div> <div>implied mode</div> <div>Example: nop</div> <div>N V B D I Z C</div>	<div>OR with accumulator</div> <div>2 bytes2 cycles</div> <div>immediate mode</div> <div>Example: ora #42</div> <div>N V B D I Z C</div>	<div>OR with accumulator</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: ora \$12</div> <div>N V B D I Z C</div>

	<div>ora</div> <div>ora</div> <div>ora</div>		
	<div>OR with accumulator</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: ora \$12,X</div> <div>NVBDIZC</div>	<div>OR with accumulator</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: ora \$1234</div> <div>NVBDIZC</div>	<div>OR with accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, X mode</div> <div>Example: ora \$1234,X</div> <div>NVBDIZC</div>
	<div>ora</div> <div>ora</div> <div>ora</div>		
	<div>OR with accumulator</div> <div>3 bytes4/5 cycles</div> <div>absolute, Y mode</div> <div>Example: ora \$1234,Y</div> <div>NVBDIZC</div>	<div>OR with accumulator</div> <div>2 bytes6 cycles</div> <div>pre-indexed indirect mode</div> <div>Example: ora (\$12,X)</div> <div>NVBDIZC</div>	<div>OR with accumulator</div> <div>2 bytes5/6 cycles</div> <div>post-indexed indirect mode</div> <div>Example: ora (\$12),Y</div> <div>NVBDIZC</div>
	<div>pha</div> <div>php</div> <div>pla</div>		
	<div>push accumulator</div> <div>1 byte3 cycles</div> <div>implied mode</div> <div>Example: pha</div> <div>NVBDIZC</div>	<div>push processor status</div> <div>1 byte3 cycles</div> <div>implied mode</div> <div>Example: php</div> <div>NVBDIZC</div>	<div>pop accumulator</div> <div>1 byte4 cycles</div> <div>implied mode</div> <div>Example: pla</div> <div>NVBDIZC</div>

	<div>plp</div> <div>pop processor status</div> <div>1 byte4 cycles</div> <div>implied mode</div> <div>Example: plp</div> <div>NVBDIZC</div>		
	<div>rol</div> <div>rotate left</div> <div>1 byte2 cycles</div> <div>accumulator mode</div> <div>Example: rol</div> <div>NVBDIZC</div>		
	<div>rol</div> <div>rotate left</div> <div>2 bytes5 cycles</div> <div>zero page mode</div> <div>Example: rol \$12</div> <div>NVBDIZC</div>		
	<div>rol</div> <div>rotate left</div> <div>2 bytes6 cycles</div> <div>zero page, X mode</div> <div>Example: rol \$12,X</div> <div>NVBDIZC</div>		
	<div>rol</div> <div>rotate left</div> <div>3 bytes6 cycles</div> <div>absolute mode</div> <div>Example: rol \$1234</div> <div>NVBDIZC</div>		
	<div>rol</div> <div>rotate left</div> <div>3 bytes7 cycles</div> <div>absolute, X mode</div> <div>Example: rol \$1234,X</div> <div>NVBDIZC</div>		
	<div>ror</div> <div>rotate right</div> <div>1 byte2 cycles</div> <div>accumulator mode</div> <div>Example: ror</div> <div>NVBDIZC</div>		
	<div>ror</div> <div>rotate right</div> <div>2 bytes5 cycles</div> <div>zero page mode</div> <div>Example: ror \$12</div> <div>NVBDIZC</div>		
	<div>ror</div> <div>rotate right</div> <div>2 bytes6 cycles</div> <div>zero page, X mode</div> <div>Example: ror \$12,X</div> <div>NVBDIZC</div>		

	<div> <div>ror</div> <div>ror</div> <div>rti</div> </div>		
	<div>rotate right</div> <div> <div>3 bytes</div> <div>6 cycles</div> </div> <div>absolute mode</div> <div>Example: ror \$1234</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>rotate right</div> <div> <div>3 bytes</div> <div>7 cycles</div> </div> <div>absolute, X mode</div> <div>Example: ror \$1234,X</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>return from interrupt</div> <div> <div>1 byte</div> <div>6 cycles</div> </div> <div>implied mode</div> <div>Example: rti</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>
	<div> <div>rts</div> <div>sbc</div> <div>sbc</div> </div>		
	<div>return from subroutine</div> <div> <div>1 byte</div> <div>6 cycles</div> </div> <div>implied mode</div> <div>Example: rts</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>subtract with borrow</div> <div> <div>2 bytes</div> <div>2 cycles</div> </div> <div>immediate mode</div> <div>Example: sbc #42</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>subtract with borrow</div> <div> <div>2 bytes</div> <div>3 cycles</div> </div> <div>zero page mode</div> <div>Example: sbc \$12</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>
	<div> <div>sbc</div> <div>sbc</div> <div>sbc</div> </div>		
	<div>subtract with borrow</div> <div> <div>2 bytes</div> <div>4 cycles</div> </div> <div>zero page, X mode</div> <div>Example: sbc \$12,X</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>subtract with borrow</div> <div> <div>3 bytes</div> <div>4 cycles</div> </div> <div>absolute mode</div> <div>Example: sbc \$1234</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>	<div>subtract with borrow</div> <div> <div>3 bytes</div> <div>4/5 cycles</div> </div> <div>absolute, X mode</div> <div>Example: sbc \$1234,X</div> <div> <div>N</div> <div>V</div> <div>B</div> <div>D</div> <div>I</div> <div>Z</div> <div>C</div> </div>

	<div>sbc</div> <div>sbc</div> <div>sbc</div>		
	<div>subtract with borrow</div> <div>3 bytes4/5 cycles</div> <div>absolute, Y mode</div> <div>Example: sbc \$1234,Y</div> <div>NVBDIZC</div>	<div>subtract with borrow</div> <div>2 bytes6 cycles</div> <div>pre-indexed indirect mode</div> <div>Example: sbc (\$12,X)</div> <div>NVBDIZC</div>	<div>subtract with borrow</div> <div>2 bytes5/6 cycles</div> <div>post-indexed indirect mode</div> <div>Example: sbc (\$12),Y</div> <div>NVBDIZC</div>
	<div>sec</div> <div>sed</div> <div>sei</div>		
	<div>set carry</div> <div>1 byte2 cycles</div> <div>implied mode</div> <div>Example: sec</div> <div>NVBDIZC</div>	<div>set decimal mode</div> <div>1 byte2 cycles</div> <div>implied mode</div> <div>Example: sed</div> <div>NVBDIZC</div>	<div>disable interrupts</div> <div>1 byte2 cycles</div> <div>implied mode</div> <div>Example: sei</div> <div>NVBDIZC</div>
	<div>sta</div> <div>sta</div> <div>sta</div>		
	<div>store accumulator</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: sta \$12</div> <div>NVBDIZC</div>	<div>store accumulator</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: sta \$12,X</div> <div>NVBDIZC</div>	<div>store accumulator</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: sta \$1234</div> <div>NVBDIZC</div>

	<div>sta</div> <div>sta</div> <div>sta</div>		
	<div>store accumulator</div> <div>3 bytes5 cycles</div> <div>absolute, X mode</div> <div>Example: sta \$1234,X</div> <div>N V B D I Z C</div>	<div>store accumulator</div> <div>3 bytes5 cycles</div> <div>absolute, Y mode</div> <div>Example: sta \$1234,Y</div> <div>N V B D I Z C</div>	<div>store accumulator</div> <div>2 bytes6 cycles</div> <div>pre-indexed indirect mode</div> <div>Example: sta (\$12,X)</div> <div>N V B D I Z C</div>
	<div>sta</div> <div>stx</div> <div>stx</div>		
	<div>store accumulator</div> <div>2 bytes6 cycles</div> <div>post-indexed indirect mode</div> <div>Example: sta (\$12),Y</div> <div>N V B D I Z C</div>	<div>store X register</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: stx \$12</div> <div>N V B D I Z C</div>	<div>store X register</div> <div>2 bytes4 cycles</div> <div>zero page, Y mode</div> <div>Example: stx \$12,X</div> <div>N V B D I Z C</div>
	<div>stx</div> <div>sty</div> <div>sty</div>		
	<div>store X register</div> <div>3 bytes4 cycles</div> <div>absolute mode</div> <div>Example: stx \$1234</div> <div>N V B D I Z C</div>	<div>store Y register</div> <div>2 bytes3 cycles</div> <div>zero page mode</div> <div>Example: sty \$12</div> <div>N V B D I Z C</div>	<div>store Y register</div> <div>2 bytes4 cycles</div> <div>zero page, X mode</div> <div>Example: sty \$12,X</div> <div>N V B D I Z C</div>

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

pop

*Discard the topmost
card from the played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

new

*Draw a new card and
place it on top of the
played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

new

*Draw a new card and
place it on top of the
played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

new

*Draw a new card and
place it on top of the
played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

new

*Draw a new card and
place it on top of the
played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

new

*Draw a new card and
place it on top of the
played pile*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

draw 2

*The player you choose
must draw two
additional cards*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

draw 2

*The player you choose
must draw two
additional cards*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

draw 2

*The player you choose
must draw two
additional cards*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

draw 2


*The player you choose
must draw two
additional cards*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

draw 2

*The player you choose
must draw two
additional cards*

**DRAW A NEW CARD;
CONTINUE YOUR
TURN**

	<div>draw 2</div> <div><i>The player you choose must draw two additional cards</i></div> <div>DRAW A NEW CARD; CONTINUE YOUR TURN</div>	<div>draw 2</div> <div><i>The player you choose must draw two additional cards</i></div> <div>DRAW A NEW CARD; CONTINUE YOUR TURN</div>	<div>draw 2</div> <div><i>The player you choose must draw two additional cards</i></div> <div>DRAW A NEW CARD; CONTINUE YOUR TURN</div>	
	<div>draw 2</div> <div><i>The player you choose must draw two additional cards</i></div> <div>DRAW A NEW CARD; CONTINUE YOUR TURN</div>	<div>draw 2</div> <div><i>The player you choose must draw two additional cards</i></div> <div>DRAW A NEW CARD; CONTINUE YOUR TURN</div>	<div>6502</div> <div>the card game</div> <div>a game for >= 2 people version 1.3</div>	
<div>Copyright (c) 2018 John Aycock aycock@ucalgary.ca @herrprofr</div> <div></div> <div>This work is licensed under CC BY-SA 4.0 https://creativecommons.org/licenses/by-sa/4.0</div>	<div>OBJECT</div> <div>The player who plays all their cards first wins.</div> <div>SETUP</div> <div>Deal eight cards face-down to each player. The remainder of the cards, face-down, form the draw pile. Take the topmost card from the draw pile and turn it over to form the played pile. Decide who goes first; play progresses clockwise.</div> <div>TURNS</div> <div>A player picks up zero or more cards as needed until they can match the card atop the played pile. (If a pop/new/draw card is played, it is discarded and replaced with a new card from the draw pile, and the player resumes trying to form a match.)</div> <div>The same attribute cannot be matched twice in a row. For instance, if the last match was on the number of bytes, the next match can't also be made on the number of bytes.</div> <div>FORMING MATCHES</div> <div>To match a card with the card on the top of the played pile, the two must be "exactly" the same in one (or more) of the following ways: instruction name; number of bytes; number of cycles; addressing mode; condition codes in their entirety. Parts that might match are in black boxes.</div> <div>Matches must be announced. The instruction name, addressing mode must be read out, along with the criterion that's being matched. For example, 's t a, zero page, also 2 bytes'</div>	<div>FAQ</div> <div>Q. Can multiple pop/new/draw cards be played during one turn? A. Yes.</div> <div>Q. Does a status with none of the NVBDIZC flags highlighted match another one with none of the flags highlighted? A. Yes.</div> <div>Q. Does the mode 'absolute, X' match 'absolute, Y'? A. No, the items in the black box must be exactly the same. For the same reason, '5/6 cycles' only matches another '5/6 cycles', and not '5 cycles' or '6 cycles'.</div> <div>Q. Does the restriction on not matching the same attribute twice in a row still apply after a pop/new is played? A. Yes.</div> <div>Q. Can I keep a pop/new/draw card after using it? A. No, you discard it. Nice try.</div> <div>Q. How can the game be made longer? A. Play multiple games; the first person to win eight games is the overall winner.</div> <div>Q. How can you be so awesome? A. It's a gift.</div>		