

Block construction					
(		Start block for IF or WHILE	)		End block for IF or WHILE
Nameless definition					
[		Start nameless definition	]		End nameless definitions
Control flow					
;		End of Word	EX	v --	Run a word from address
Conditional					
0?	a -- a	is TOS=Zero? conditional	1?	a -- a	is TOS<>Zero? conditional
+	a -- a	is TOS>=0?	-?	a -- a	is TOS<0?
<?	a b -- a	is a<b? remove TOS	>?	a b -- a	is a>b? remove TOS
=?	a b -- a	is a=b? remove TOS	>=?	a b -- a	is a>=b? remove TOS
<=?	a b -- a	is a<=b? remove TOS	<>?	a b -- a	is a<>b? remove TOS
AND?	a b -- c	is a AND b? remove TOS	NAND?	a b -- c	is a NAND b? remove TOS
BT?	a b c -- a	is a<=b<=c? remove TOS			
Stack movements					
DUP	a -- aa	duplicate TOS	DROP	a --	remove TOS
OVER	ab -- aba	duplicate Second of Stack	PICK2	abc -- abca	
PICK3	abcd -- abcda		PICK4	abcde -- abcdea	
SWAP	ab -- ba		NIP	ab -- b	
ROT	abc -- bca		2DUP	ab -- abab	
2DROP	ab --		3DROP	abc --	
4DROP	abcd --		2OVER	abcd -- abcdab	
2SWAP	abcd -- cdab				
Return Stack					
>R	a --	rstack: -- a	R>	-- a	rstack: a --
R@	-- a	rstack: a -- a			
Logic operators					
AND	a b -- c	c=a AND b	OR	a b -- c	c=a OR b
XOR	a b -- c	c=a XOR b	NOT	a -- b	b=NOT a
Aritmetic operators					
+	a b -- c	d=a+b	-	a b -- c	d=a-b
*	a b -- c	d=a*b	/	a b -- c	d=a/b
<<	a b -- c	d=a shift left b	>>	a b -- c	d=a shift righth b
>>>	a b -- c	d=a shift righth b w/o sign	MOD	a b -- c	d=a mod b
/MOD	a b -- c d	c=a/b d=a mod b	*/	a b c -- d	d=a*b/c
*>>	a b c -- d	d=(a*b)>>c	<</	a b c -- d	d=(a<<c)/b
NEG	a -- b	b=-a	ABS	a -- b	b= a
SQRT	a -- b	b=square root(a)	CLZ	a -- b	b=count lead zeros of a
Memory fetch and store					
@	a -- [a]		C@	a -- b[a]	
Q@	a -- q[a]		@+	a -- b [a]	
C@+	a -- b b[a]		Q@+	a -- b q[a]	
!	a b --		C!	a b --	
Q!	a b --		!+	a b -- c	
C!+	a b -- c		Q!+	a b -- c	
+!	a b --		C+!	a b --	
Q+!	a b --				
Auxiliary registers					
>A	a --	load register A	A>	-- a	push register A
A@	-- a		A!	a --	
A+	a --		A@+	-- a	
A!+	a --		>B	a --	load register B
B>	-- a	push register B	B@	-- a	
B!	a --		B+	a --	
B@+	-- a		B!+	a --	
Memory copy and fill					
MOVE	d s c --	copy S to D, C dword	MOVE>	d s c --	copy from S to D, C dword in rev.
FILL	d v c --	fill D, C dword with V	CMOVE	d s c --	copy from S to D, C bytes

CMOVE>	d s c --	copy S to D, C bytes in rev.	CFILL	d v c --	fill from D, C bytes with V
QMOVE	d s c --	copy S to D, C qwords	QMOVE>	d s c --	copy from S to D, C qwords in rev.
QFILL	d v c --	fill D, C qwords with V			
<b>Operating System</b>					
UPDATE	--	update SO events	REDRAW	--	refresh graphic buffer
MEM	-- a	start memory free	VFRAME	-- a	frame buffer adress
SH	-- a	screen height	SW	-- a	screen width
XYPEN	-- x y	position of mouse or pen	BPEN	-- a	key state of mouse or pen
KEY	-- a	key code	CHAR	-- a	character ascii code
TIME	-- a	Hour(8):min(8):sec(8)	DATE	-- a	Year(16):month(8):day(8)
MSEC	-- a	milisecond of system	APPEND	m cnt "fn" --	append file from M, C bytes
LOAD	m "fn" -- lm	load file in M, last in LM	SAVE	m cnt "fn" --	save file from M, C bytes
FFIRST	"f" -- s	get first struct of folder "f"	FNEXT	a -- s	next struct or 0 to end
SYS	"sys" --	call SO to run program			
<b>Graphics drawing</b>					
INK	-- color	value of pen color	'INK	-- 'ink	adress of color to set
ALPHA	a --	set alpha value	OP	x y --	set last point
OPX	-- opx	last x point	OPY	-- opy	last y point
LINE	x y --	lineto	CURVE	x y x y --	curve cuadratic bezier
CURVE3	x y x y x y --	curve qubic bezier	PLINE	x y --	lineto polygon
PCURVE	x y x y --	curve cuadratic bezier poly	PCURVE3	x y x y x y --	curve qubic bezier polygon
POLI	--	fill polygon			
<b>Video Playback (r3v version)</b>					
VIDEO	"fn" w h --	0 close video	VIDEOSHOW	w h -- v	
VIDEOSIZE	w h --				
<b>Sound and Music (r3v version)</b>					
SLOAD	"fn" -- s		SFREE	s --	
MLOAD	"fn" -- m		MFREE	m --	
SPLAY	s --	0 stop sound	MPLAY	m --	0 stop music

<b>Prefix</b>	
:	define CODE, :: Export word
#	define DATA, ## Export word
^	Include source code in filename
'	Adress of word, code or data
	Commento to end of the line
"	String to next ", "" for " character
\$	Hex numbers
%	Binary numbers, 0 can be .