## Chip8 Cheat Sheet

	Setting I register	
Annn	I = nnn	
fx1E	I = I + vX	

		Setting V registers
6xkk	vX = kk	
7xkk	vX += kk	
8xy0	vX = vY	

	Manipulating V registers
8xy1	$vX = vX \mid vY$
8xy2	vX = vX & vY
8xy3	$vX = vX \wedge vY$
8xy4	vX = vX + vY : vF = carry
8xy5	vX - vX - vY : vF = not borrow
8xy6	vX = SHR vX : vF = lsb
8xy7	vX = vY - vX : vF = not borrow
8xyE	vX = SHL vX : vF = msb

	Reading and storing V registers in Memory
Fx55	v0 to vX is stored in memory starting at I
Fx65	V0 to vX is read from memory starting at I

		Delay Timer	
Fx07	vX = dt		
Fx15	dt = vX		

		Sound Timer	
Fx18	st = vX		

Jumping / Routines		
2nnn	Call nnn	
00EE	Return subroutine	
1nnn	Jump to nnn	
Bnnn	Jump to nnn + v0	

	Skipping
3xkk	Skip next if $vX = kk$
4xkk	Skip next if vX != kk
5xy0	Skip next if $vX = vY$
9xy0	Skip next if vX != vY

	Keyboard input
Ex9E	Skip if vX = key
ExA1	Skip if vX != key
Fx0A	Wait until key - store in vX

	Drawing
00E0	Clear display
Dxyn	Display n-byte sprite read from I at vX vY
Fx29	I = sprite for digit vX

	Random
Cxkk	vX = RAND & kk

	BCD
Fx33	BCD of vX is stored in memory I, I+1 and I+3