Pico-8 V2 Cheat Sheet

Cheatography

by Zoltan via cheatography.com/35548/cs/18960/

Commandline Parameters		
width n	Set the window width	
height n	Set the window height	
windowed n	Set windowed mode off (0) or on (1)	
sound n	Sound volume 0256	
music n	Music volume 0256	
joystick n	Joystick controls starts at player n (07)	
pixel_perfect n	1 for unfiltered screen stretching at integer scales (on by default)	
draw_rect x,y,w,h	Absolute window coordinates and size to draw pico-8's screen	
run filename	Load and run a cartridge	
x filename	Execute a pico-8 cart headless and then quit	
p param_str	Pass a parameter string to the specified cartridge	
splore	Boot in splore mode	
home path	Set the path to store config.txt and other user data files	
desktop path	Set a location for screenshots and gifs to be saved	
screenshot_scale n	Scale of screenshots. default: 3 (368x368 pixels)	
gif_scale n	Scale of gif captures. default: 2 (256x256 pixels)	
gif_len n	Set the maximum gif length in seconds (1120)	
gui_theme n	Use 1 for a higher contrast editor colour scheme	
timeout n	How many seconds to wait before downloads timeout (default: 30)	
software_blit n	Use software blitting mode off (0) or on (1)	
foreground_sleep_ms n	How many milliseconds to sleep between frames	
background_sleep_ms n	How many milliseconds to sleep between frames when running in background	

these override settings found in config.txt

Screenshots, Videos and Cartridge Labels		
F6	Save a screenshot to desktop	
F7	Capture cartridge label image	
F8	Start recording a video	
F9	Save GIF video to desktop (max: 8 seconds by default)	
-if F6F9 are not available on your system, use CTRL-69		

-You can save a video at any time (it is always recording). Use F8 just to reset the video starting point if you want something less than 8 seconds long

Graphics	
clip [x y w h] Sets the screen's clipping region in pixels clip() to reset	
pget x y	Get the colour (c) of a pixel at x, y
pset x y [c] Set the colour (c) of a pixel at x, y	

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Graphics (cont)				
sget x y	Get the colour (c) of a spritesheet pixel			
sset x y [c]	Set the colour (c) of a spritesheet pixel			
fget n [f]	Get the value (v) of a sprite's flag			
fset n [f] v	Set the value (v) of a sprite's flag			
print(str, [x,] [y,] [c])	t(str, [x,] [y,] [c]) Prints a string of characters to the screen			
cursor x y	Set the cursor position and carriage return margin			
color c	Set the default color to be used by drawing functions			
cls [c]	Clear the screen and reset the clipping rectangle	c is the background color. The default is 0 (black).		
camera [x y]	Set a screen offset of -x, -y for all drawing operations	camera() to reset		
circ x y r [c]	Draw a circle at x,y with radius r			
circfill x y r [col]	Draw a filled circle at x,y with radius r			
line x0 y0 x1 y1 [c]	Draw a line			
rect x0 y0 x1 y1 [c]	Draw a rectangle			
rectfill x0 y0 x1 y1 [c]	Draw a filled rectangle			
pal c0 c1 [p] (1)	Draw all instances of colour c0 as c1 in subsequent draw calls	pal() to reset to system defaults		
palt c t	Set transparency for colour index to t (boolean)	Transparency is observed by spr(), sspr() and map()		
spr n x y [w h] [flip_x] [flip_y]	Draw sprite n at position x,y,width and height are 1,1 by det	fault		
sspr sx sy sw sh dx dy [dw dh] [flip_x] [flip_y]	Draws a rectangle of pixels from the sprite sheet, optionally stretching the image to fit a rectangle on the screen			
fillp p	Sets the fill pattern, observed by: circ() circfill() rect() rectfill() pset() line()			
 params in [] are optional f is the flag index 07 v is boolean and can be true or false c is color (1) Two types of palette (p defaults to 0) 0 draw palette, colours are remapped on d 1 screen palette, colours are remapped on 				



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Tables			
add t v	Add value v to the end of table t		
del t v	Delete the first instance of value v in table t		
all t	Used in FOR loops to iterate over all items in a table FOR V IN ALL(T) DO PRINT(V) END		
foreach t f	f For each item in table t, call function f with the item as a single parameter FOREACH(T, PRINT)		
pairs t	Used in FOR loops to iterate over table t, providing both the key and value for each item		
Input			
btn [i [p]]	Tests if a button is being pressed at this moment		
btnp [i [p]]			
i is the button			
p is the playe			
Audio			
sfx n [channe	nnel [offset [length]]] Plays a sound effect n		
music [n [fade	fade_len [channel_mask]]] Plays a music pattern, or stops playing		
Мар			
mget x y	Gets the sprite number assigned to a cell on the map		
mset x y v			
	<pre>ccel_y sx sy cel_w cel_h [layer]</pre> Draw a section of the map (in cels) at screen position sx, sy (in pixels)		
Math			
max x y	Returns the maximum of two numbers		
min x y	Returns the minimum of two numbers		
mid x y z	Returns the middle of three numbers		
flr x	Returns the integer portion (the "floor") of a number		
ceil x	Returns the next highest integer (the "ceiling") of a number		
COS X	Calculates the cosine of an angle		
sin x	Calculates the sine of an angle		
atan2 dx dy	dy Converts dx, dy into an angle from 01		
sqrt x	Calculates the square root of a number		
abs x	Returns the absolute value of a number		
	Generates a random number between 0 and the given maximum		
rnd x			

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01.1	and the second secon		
Strings			
length		print(#s)> 19	
joining strings		print("three "4)> "three 4"	
sub() to grab s	ubstrings	print(sub(s,5,9))> "quick"	
s = "the quick I	brown fox"		
Types			
type val	Returns the basic type of a given value as	s a string print(type(1)) "number"	
tostr val [hex]	Converts a non-string value to a string rep	presentation s = 'v: 'tostr(12345) 'v: 12345'	
tonum val	Converts a string representation of a deci	mal, hexadecimal, or binary number to a number value	
hex - if hex is t	rue and val is a number, an unsigned hexadecimation	al writing of the number is returned in the format "0x0000.0000"	
Binary Operat	tions		
band x y	Calculates the bitwise AND of two numbers	print(band(0x7, 0xd)) 5	
bor x y	Calculates the bitwise OR of two numbers	print(bor(0x5, 0x9)) 13 (0xd)	
bxor x y	Calculates the bitwise XOR of two numbers	print(bxor(0x5, 0x9)) 12 (0xc)	
bnot x	Calculates the bitwise NOT of a number	print(bnot(0xb))11 (0 - 0xb)	
rotl x y	Rotates the bits of a number to the left	print(rotl(8, 3)) 64	
rotr x y	Rotates the bits of a number to the right	print(rotr(64, 3)) 8	
shl x n	Shifts the bits of a number to the left	print(shl(1, 3)) 8	
shr x n	Shifts the bits of a number to the right	print(shr(8, 3)) 1	
lshr x n	Shifts the bits of a number to the right, using lo	gical shift print(lshr(8, 3)) 1	
Coroutines			
cocreate f	Create a coroutine for function f		
coresume c [p(0 p1] Run or continue the coroutine c. Para coroutine's function	ameters p0, p1 are passed to the Returns true if the coroutine completes without any errors	
costatus c	Return the status of coroutine c as a	string "running", "suspended", "dead"	
yield	Suspend execution and return to the	caller	
assert(cond,	Causes a runtime error if a conditiona	Causes a runtime error if a conditional expression is false	

stop([message,] [x,] [y,] [c])

[message])

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Stops the program's execution and returns to the command prompt

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