

Latest Docs

- [duckyPad User Manual](#)
- [duckyScript Instructions](#)

Key Combos

- Easiest to Write
- For Shortcuts & Hotkeys
- Any Combo of:
- Special Keys / Letters / Numbers

ENTER

CTRL s

COMMAND SHIFT 4

Type Key Name in ALL CAPS

Available Special Keys	
CTRL / RCTRL	(media keys)
SHIFT / RSHIFT	MK_VOLUP
ALT / RALT	MK_VOLDOWN
WINDOWS / RWINDOWS	MK_MUTE
COMMAND / RCOMMAND	MK_PREV
OPTION / ROPTION	MK_NEXT
ESC	MK_PP (play/pause)
ENTER	MK_STOP
UP/DOWN/LEFT/RIGHT	
SPACE	(numpad keys)
BACKSPACE	NUMLOCK
TAB	KP_SLASH
CAPSLOCK	KP_ASTERISK
PRINTSCREEN	KP_MINUS
SCROLLLOCK	KP_PLUS
PAUSE	KP_ENTER
BREAK	KP_0 - KP_9
INSERT	KP_DOT
HOME	KP_EQUAL
PAGEUP / PAGEDOWN	
DELETE	(Japanese IME)
END	ZENKAKUHANKAKU
MENU	HENKAN
POWER	MUHENKAN
F1 - F24	KATAKANAHIRAGANA

duckyScript Commands

Typing

STRING text	Type text AS-IS
STRINGLN text	Same as above Press ENTER at end
STRING_BLOCK END_STRING	Type text block AS-IS
STRINGLN_BLOCK END_STRINGLN	Same as above Press ENTER after each line

Timing

DELAY n	Wait n Milliseconds
DEFAULTDELAY n	How long to wait between each line of code
DEFAULTCHARDELAY n	How long to wait between each letter
CHARJITTER n	Additional random delay between 0 and n ms after each letter

Mouse

LMOUSE	Left Click
MMOUSE	Middle Click
RMOUSE	Right Click
MOUSE_MOVE x y	Move Mouse in Pixels x : + Right - Left y : + Up - Down
MOUSE_WHEEL n	Scroll n lines + Up - Down

OLED

OLED_CLEAR	Clear Screen
OLED_CURSOR x y	Set Cursor x y : 0 to 127 (0,0) = Top Left
OLED_PRINT text	Print Text at Current Cursor
OLED_CIRCLE x y radius fill	x y : Position radius : In Pixels fill : 0 or 1
OLED_LINE x1 y1 x2 y2	x1 y1 : Start x2 y2 : End
OLED_RECT x1 y1 x2 y2 fill	Draw Rectangle x1 y1 : Start x2 y2 : End fill : 0 or 1
OLED_UPDATE	Call This to See Changes on Screen!
OLED_RESTORE	Show Default Screen

RGB Backlight

SWC_SET n r g b	Change RGB Colour n : Key ID (0 for current switch) r g b : 0 to 255
SWC_FILL r g b	Change ALL RGB r g b : 0 to 255
SWC_RESET n	Reset RGB to Default n : Key ID 0 = Current Key 99 = All keys

Pressing Keys

Key Combos	See Page 1
KEYDOWN key	Hold key
KEYUP key	Release Key
key can be letter, number, or special key.	

Profile Switching

PREV_PROFILE	
NEXT_PROFILE	
GOTO_PROFILE name	Case sensitive
Also check out duckyPad Autoswitcher!	

Miscellaneous

DP_SLEEP	RGB & Screen OFF Halts Execution
HALT	Halt Execution
REPEAT n	Repeat line above n times

Comments

REM
//
REM_BLOCK END_REM

Constants	
DEFINE	Define a Constant
Replaced AS-IS during preprocessing	
DEFINE MY_EMAIL bob@me.com STRING My email is MY_EMAIL!	

Variables	
VAR	Declare a Variable
Starts with \$ 16-bit integer	Global scope Can be printed
VAR \$count = 10 STRING I have \$count eggs	

Operators		
Perform on Constants and Variables		
= Assign	== Equal	&& Logical AND
+ Add	!= Not equal	Logical OR
- Subtract	> Greater than	& Bitwise AND
* Multiply	< Less than	Bitwise OR
/ Divide	>= GTE	^ Bitwise XOR
% Modulus	<= LTE	<< Left Shift
** Exponent		>> Right Shift

Randomisation	
\$ _RANDOM_MIN = 0 \$ _RANDOM_MAX = 100 VAR \$eggs = \$ _RANDOM_INT	
Range is inclusive	

IF Statements	
Code inside is executed If expression is non-zero	
IF expression THEN code END_IF	
Multiple Checks	ELSE IF ... THEN ELSE

WHILE loops	
Code inside is repeated If expression is non-zero	
WHILE expression code END_WHILE	
Jump to start of loop	CONTINUE
Exit loop immediately	LBREAK

Functions	
Run block of code efficiently	
FUNCTION my_func() code END_FUNCTION	
my_func() // call it	
Use global variable for args & returns	

Persistent Global Variables	
\$ _GV0 to \$ _GV31	
<ul style="list-style-type: none">Available across all profilesPersists over reboots	

Reading Buttons: Blocking	
VAR \$this_k = \$ _BLOCKING_READKEY	
Waits until a key is pressed, returns its ID	

Reading Buttons: Non-Blocking	
VAR \$this_k = \$ _READKEY	
Returns 0 if no key pressed, KeyID otherwise	

Real-time Clock	
Automatically set when using Autoswitcher	
Check \$ _RTC_IS_VALID first. Do not proceed if 0.	
\$ _RTC_YEAR	\$ _RTC_MINUTE
\$ _RTC_MONTH	\$ _RTC_SECOND
\$ _RTC_DAY	\$ _RTC_WDAY
\$ _RTC_HOUR	\$ _RTC_YDAY

Print Formatting	
Set Before Printing Numbers in STRING, STRINGLN, OLED_PRINT	
\$ _STR_PRINT_FORMAT	0: Decimal Unsigned
	1: Decimal Signed
	2: Hex Lower
	3: Hex Upper
\$ _STR_PRINT_PADDING	Add Leading Zeros

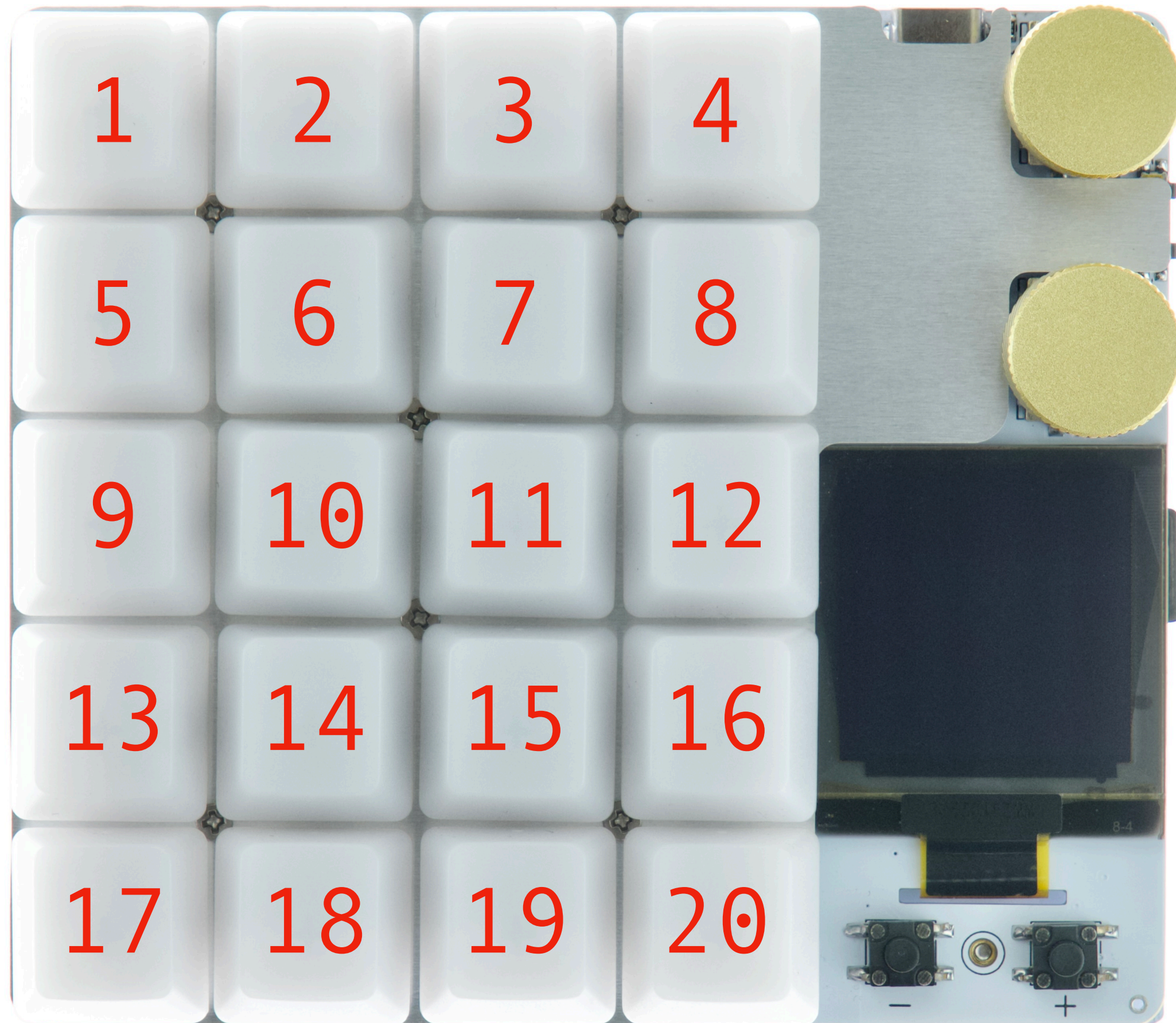
Reserved Variables		
\$_RANDOM_MIN	RW	See “Randomisation”
\$_RANDOM_MAX		
\$_RANDOM_INT		
\$_TIME_S	R0	Elapsed time since power-on
\$_TIME_MS		
\$_READKEY	R0	See “Reading Inputs”
\$_BLOCKING_READKEY		
\$_IS_NUMLOCK_ON	R0	0: LED OFF 1: LED ON
\$_IS_CAPSLOCK_ON		
\$_IS_SCROLLLOCK_ON		
\$_ALLOW_ABORT	RW	0: Enable 1: Disable
\$_DONT_REPEAT		
\$_THIS_KEYID	R0	See “Key ID”
\$_DP_MODEL	R0	1: duckyPad, 2: duckyPad Pro
\$_KEYPRESS_COUNT	R0	
\$_RTC_IS_VALID	R0	Check this first before reading RTC
\$_RTC_YEAR		4 Digits, e.g. 2025
\$_RTC_MONTH		1 - 12
\$_RTC_DAY		1 - 31
\$_RTC_HOUR		0 - 23
\$_RTC_MINUTE		0 - 59
\$_RTC_SECOND		0 - 60
\$_RTC_WDAY		Day of Week, 0 = Sunday
\$_RTC_YDAY		Day of Year, 0 - 365
\$_RTC_UTC_OFFSET	RW	In Minutes
\$_STR_PRINT_FORMAT	RW	See “Print Formatting”
\$_STR_PRINT_PADDING	RW	

Key IDs: duckyPad (2020)

- Each key on duckyPad has a **unique ID**
- Used for **reading button status** and changing RGB colour
- Key Test sample script provided



Key IDs: duckyPad Pro



27 28

Rotary Encoder	Clockwise	Counter Clockwise	Press
Upper	21	22	23
Lower	24	25	26

Expansion Module	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Closest to duckyPad	37	38	39	40	41	42	43	44
2nd Closest	45	46	47	48	49	50	51	52
etc.								