

# duckyScript: Key Combos

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duckyPad Quick Ref 1/5

## 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

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Typing	
STRING <code>text</code>	Type text AS-IS
STRINGLN <code>text</code>	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 <b>each line</b>

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

Pressing Keys	
Key Combos	See Page 1
KEYDOWN <code>key</code>	Hold key
KEYUP <code>key</code>	Release Key
<code>key</code> can be letter, number, or special key.	

Profile Switching	
PREV_PROFILE	
NEXT_PROFILE	
GOTO_PROFILE <code>name</code>	Case sensitive
Also check out <a href="#">duckyPad Autoswitcher!</a>	

Miscellaneous	
DP_SLEEP	RGB & Screen OFF Halts Execution
HALT	Halt Execution
REPEAT <code>n</code>	Repeat <b>line above</b> <code>n</code> times

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

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

Comments	
REM	
//	
REM_BLOCK	
END_Rem	

# duckyScript: Advanced Usage

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## 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 \$ Global scope  
16-bit integer 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
*	< 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

- Available across all profiles
- Persists 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

0: Decimal Unsigned

1: Decimal Signed

2: Hex Lower

3: Hex Upper

\$\_STR\_PRINT\_FORMAT

\$\_STR\_PRINT\_PADDING

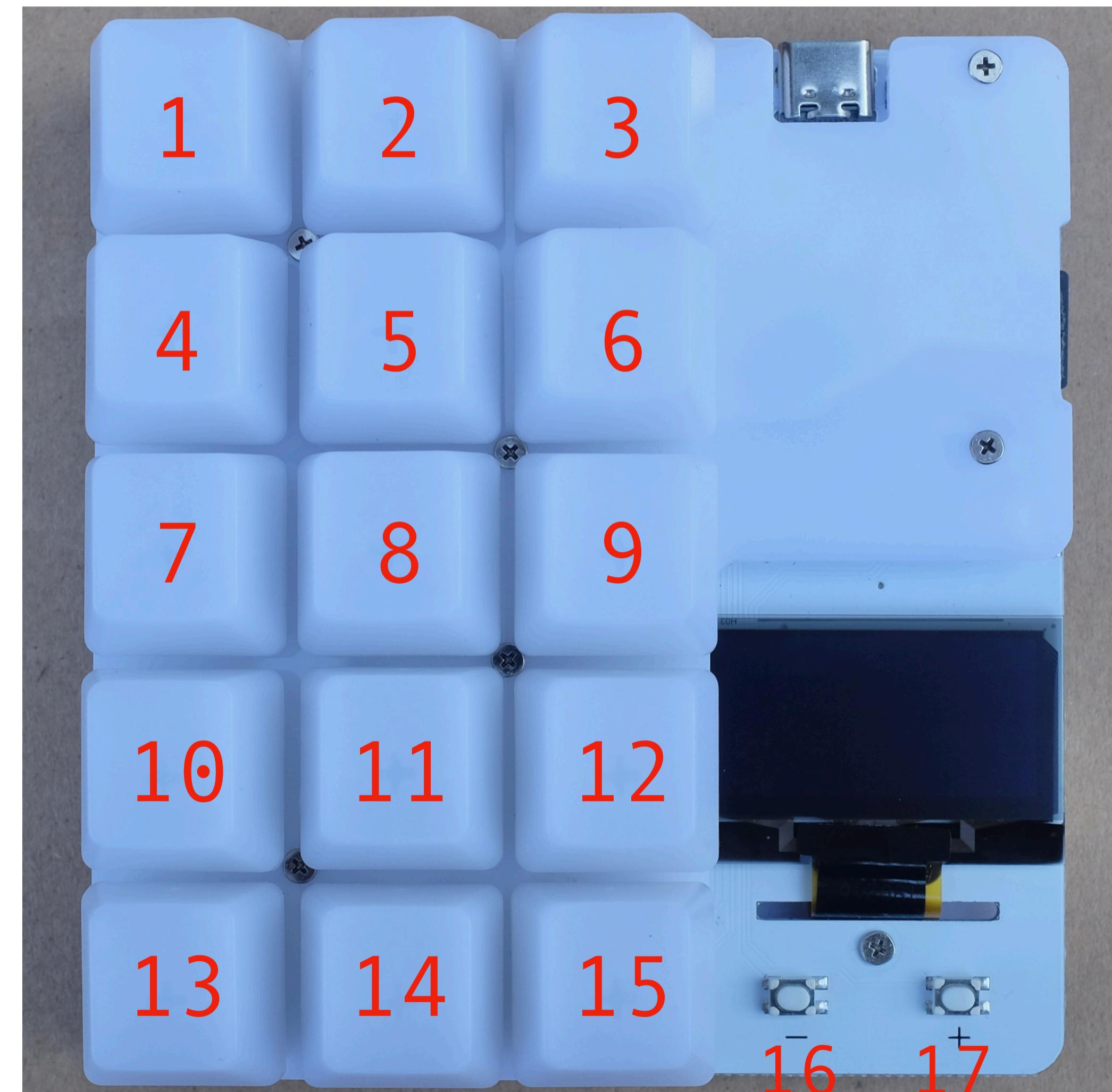
Add Leading Zeros

## Reserved Variables

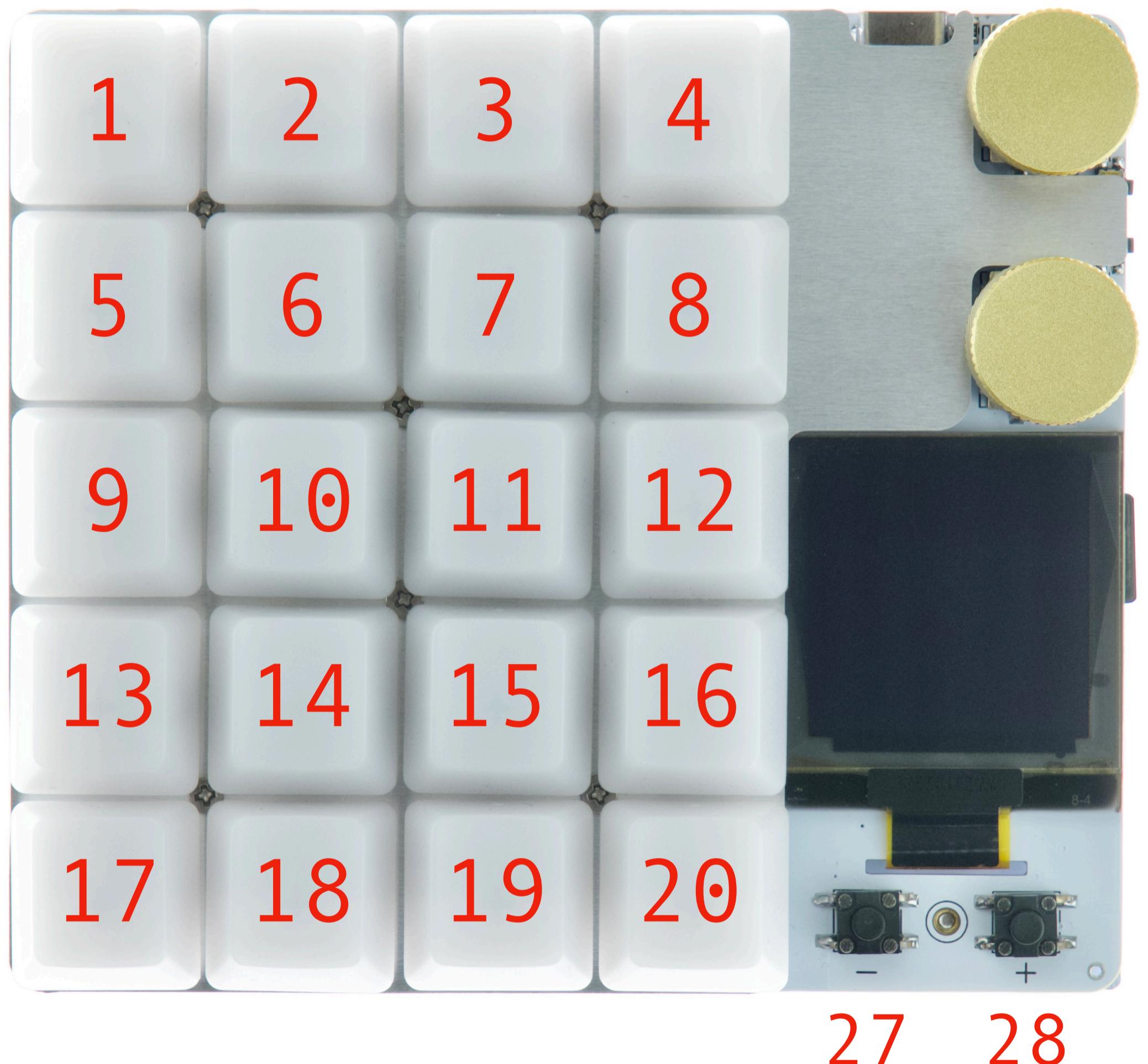
<code>\$_RANDOM_MIN</code>	RW	See "Randomisation"
<code>\$_RANDOM_MAX</code>	RW	
<code>\$_RANDOM_INT</code>	RO	
<code>\$_TIME_S</code>	RO	Elapsed time since power-on
<code>\$_TIME_MS</code>	RO	
<code>\$_READKEY</code>	RO	See "Reading Inputs"
<code>\$_BLOCKING_READKEY</code>	RO	
<code>\$_IS_NUMLOCK_ON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

## 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



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.