Fast Colour Coded Reference to Reg Bytes

```
Bytes:
            4 5 6 7
0a,00,00,00,<mark>04,00</mark>,29,\; [clear]
                                                               - sends "escape"
                                      [Enter]
                                                               - sends "z"
<mark>0b</mark>,00,00,00,<mark>04,00,1d</mark>,\;
- Sends PC to sleep Change to "S"
0d,00,00,00,04,03,1a,\ [Windows]
                                                              - sends "ctrl-shift-W"
0e,00,00,00,04,00,41,;
                                                              - was "04,00,05" sends B Now Sends "F8"
                                      [Mute]
0f,00,00,00,04,01,07,;
                                      [Info]
                                                              sends "ctrl-D"
10,00,00,00,04,00,43,\; [Vol up] - was "01,e9,00" sends "F10"
11,00,00,00,04,00,42,\; [Vol down] - was "01,ea,00" sends "F9"
12,00,00,00,04,00,4b,\; [Channel up] - was "01,9c,00" sends "PgUp"
13,00,00,00,04,00,4e,\; [Channel down] - was "01,9d,00" sends "PgDn"
14,00,00,00,<mark>04,03</mark>,09,\; [FWD]
                                                              - was "01,b3,00" sends "ctrl-shift-F"
                                                              - was "01,b4,00" sends "ctrl-shift-B"
15,00,00,00,04,03,05,\;
                                      [RWD]
                                                         - was "01,b4,00" sends "ctrl-shift-B"
- was "01,b0,00" sends "ctrl-shift-P"
- was "01,b2,00" sends "ctrl-R"
- was "01,b1,00" sends "ctrl-P"
- was "01,b7,00" sends "ctrl-shift-S"
- was "01,b5,00" sends "ctrl-F"
- was "01,b6,00" sends "ctrl-B"
<mark>16</mark>,00,00,00,<mark>04,03</mark>,13,\; [Play]
17,00,00,00,04,01,15,\; [Record]
18,00,00,00,04,01,13,\; [Pause]
<mark>19</mark>,00,00,00,<mark>04</mark>,<mark>03</mark>,16,\;
                                      [Stop]
1a,00,00,00,04,01,09,\; [Next]
1b,00,00,00,04,01,05,\; [Prev]
1c,00,00,00,<mark>04</mark>,03,20,\; [#]
                                                              - sends "ctrl-shift-3"
                                                               - sends "strl-shift-8"
```

So when we want to change a code that is sent by a specific button we will only have to look for the three bytes opposite to that specific button as high-lighted above. Obviously if we want to change what the "Power Button" does then we will only change bytes 03,82,00 to 04,00,16 which make the "Power Button" send Letter "S" instead of sending your PC to sleep. If you see XBMC keyboard.xml you will realise that "S" activates the shutdown Menu*.

- Each Remote Button has a number associated to it.
- Ignore "Always leave as Zero".
- This byte used to emulate keyboard stroke which is "04" if you see "03 or 01" then it sends IR code*.
- Key Modifier allocation, if "00" then no moddifier and if "03" then sends "Control+Shift" ect*.
- Sends Keystrokes*.
- You can write any comments in here, I use it to know the button name and what key it sends.

*for further information see my Tutorial.

REMEBER: After each change you do need to apply the new registry file and restart windows to activate the new settings.

HOW-TO use MCE remote in XBMC under Windows 7 (x32 or x64) with a simple Registry MOD for NOObs

All I wanted to do is make any Windows MCE compatible remote work with XBMC without any modification to the Original Keyboard.xml that ships with XBMC, but unfortunately this is not 100% possible but achievable.

now All you have to do is download one of my attached .reg files then modify any key you want using this simple Tutorial.

Hopefully I'll help explain how to modify the reg file, If you check my reg remote control setup you will see that I tried to keep similar setup to the Original XBOX remote, because I used it for many years and I know it by heart hence no need to learn what every key does ever again.

The diagram below help identify the seven bytes:

NOTE: to understand it easily go line by line "Horizontally" and always start from the left making your way to the right, at the end of the day you will realise that only 4 bytes you will be interested in! The first and the last three.

Every button has its associated key stored in the first byte, and the last three is the ones we'll be changing.

Bytes identity map

			_				The three bytes will be used together
							as one code when you want the remote to
		_					send IR signal instead of Keystrokes.
		/		\			for example Power IR sig is "03,82,00" and
							for "S" as keystroke it will be "04,00,16"
16	, 00, 00, 00	, 04	, 00	, 1A	, 🔪 ;	W	
						_	Write anything here for your Reference.
	\/						
						l	After the semicolon you can write any
							thing you wish, most likely the button
							functi onal i ty.
	1				_		this forward slash to indicate
							the end of bytes.
	1						
	1			_			Sends Keystroke - This Code "1A" Means "W"
	1						{SEE * Page 4 - 6}
	1		_				Key Modifier allocation {SEE** Page 7}.
	1						Now it's set to "00" that means remote will
							send letter "W" only. But if you change this
							for example to "03", then this button will
							send combination of "Control+Shift+W"
		_					"01 & 03" send IR code "04" Sends Keystroke,
							we will 99% of the time use keystroke's.
							the 1% will use default IR signal.
							Always leave as "00"
_							Button Number {SEE *** Page 8 - 10}

NOTE: alphabetic letters in each byte are not case sensitive.

{*} To Find the right code look under column "HID Usage ID" in the section below "Keyboard to reg codes, Page|5 & 6". I have simplified the file to contain only the information that we want, all others are removed. So from the table as you can see column 1 & 3 is what we want.

HINT: we do not care much about Column 2 "HID usage page", but to let you know that "01" means IR code and "07" Keystroke. do not confuse it with the registry 5th byte. in the Registry 5th byte we will always use "04" to send keystrokes.

SEE NEXT PAGE

Keyboard to reg codes

USB HID to PS/2 Scan Code Translation Table

Table 1 Table 2

	Table 1	
Key Name	HID Usage Page	HID Usage ID
System Power	01	81
System Sleep	01	82
System Wake	01	83
No Event	07	00
Overrun Error	07	01
POST Fail	07	02
ErrorUndefined	07	03
a A	07	04
b B	07	05
c C	07	06
d D	07	07
e E	07	08
fF	07	09
g G	07	0A
hΗ	07	0B
i I	07	0C
j J	07	0D
kK	07	0E
IL	07	0F
m M	07	10
n N	07	11
00	07	12
p P	07	13
qQ	07	14
r R	07	15
s S	07	16
t T	07	17
u U	07	18
v V	07	19
w W	07	1A
x X	07	1B
y Y	07	1C
zZ	07	1D
1!	07	1E
2 @	07	1F
3#	07	20
4 \$	07	21
5 %	07	22
6 ^	07	23
7 &	07	24
8 *	07	25
9 (07	26
0)	07	27
Return	07	28
Escape	07	29
Backspace	07	2A
Tab	07	2B
Space	07	2C
	07	2D
= +	07	2E
}]	07	2F
]}	07	30
\	07	31
Europe 1 (Note 2)	07	32
;:	07	33
111	07	34
`~	07	35
, <	07	36
.>	07	37
/?	07	38
Caps Lock	07	39
F1	07	3A
F2	07	3B
F3	07	3C
F4	07	3D
F5	07	3E
F6	07	3F
F7	07	40
F8	07	41
F9	07	42
F10	07	43
F10	07	44
F11 F12		
	07	45
Print Screen (Note 1)	07	46
Scroll Lock	07	47
Break (Ctrl-Pause)	07	48
Pause	07	48

Insert (Note 1)	Table 2					
Home (Note 1) 07 4A Page Up (Note 1) 07 4B Delete (Note 1) 07 4B Delete (Note 1) 07 4C End (Note 1) 07 4D Page Down (Note 1) 07 4D Page Down (Note 1) 07 4E Right Arrow (Note 1) 07 4F Left Arrow (Note 1) 07 5D Down Arrow (Note 1) 07 5D Mm Lock 07 5S Keypad (Note 1) 07 54 Keypad (Note 1) 07 55 Keypad (Note 1) 07 55 Keypad - 07 55 Keypad - 07 55 Keypad - 07 55 Keypad 1 End 07 59 Keypad 2 Down 07 59 Keypad 2 Down 07 5A Keypad 3 Page Dn 07 5B Keypad 3 Page Dn 07 5B Keypad 6 Right 07 5C Keypad 7 Home 07 5F Keypad 8 Up 07 60 Keypad 9 Page Up 07 61 Keypad 9 Page Up 07 61 Keypad 1 Select 07 63 Europe 2 (Note 2) 07 64 Keypad 1 Select 07 63 Europe 2 (Note 2) 07 64 F13 07 66 F14 07 66 F15 07 6A F16 07 66 F17 07 66 F18 07 66 F19 07 67 F18 07 68 F19 07 69 F19 07 68 F19 07 69 F22 07 71 F22 07 71 F23 07 72 F24 07 73 Keyboard Horu 07 78 Keyboard Select 07 78 Keyboard Horu 07 78 Keyboard Horu 07 78 Keyboard Horu 07 78 Keyboard Horu 07 78 Keyboard Jocking 07 78 Keyboard Locking 07 78 Keyboard Int'1 4 ####################################	Key Name	HID Usage Page	HID Usage ID			
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Keyboard Menu						
Keyboard Select 07 77 Keyboard Stop 07 78 Keyboard Stop 07 78 Keyboard Again 07 79 Keyboard Undo 07 7A Keyboard Cut 07 7B Keyboard Copy 07 7C Keyboard Paste 07 7D Keyboard Find 07 7E Keyboard Find 07 7F Keyboard Volume Up 07 80 Keyboard Volume Up 07 81 Keyboard Locking 07 82 Keyboard Locking 07 83 Keyboard Locking Num Lock 84 Keyboard Locking 07 84 Keyboard Locking 07 85 Keyboard Locking 07 85 Keyboard Locking 07 85 Keyboard Locking 07 86 Keyboard Locking 07 87 Keyboard Locking 07 88 Keyboard Locking 07 88 Keyboard Locking 07 85 Keyboard Locking 07 86 Keyboard Locking 07 86 Keyboard Locking 07 88 Keyboard Inti' 1 87 (Ro) 88 LP -マ字 (Katakana/Hiragana) Keyboard Inti' 1 88 (Yen) 88 LP -マ字 (Katakana/Hiragana) Keyboard Inti' 1 89 Keyboard In						
Keyboard Stop 07 78 Keyboard Again 07 79 Keyboard Undo 07 7A Keyboard Cut 07 7B Keyboard Copy 07 7C Keyboard Paste 07 7D Keyboard Find 07 7E Keyboard Mute 07 7F Keyboard Volume Up 07 80 Keyboard Locking 07 81 Keyboard Locking 07 82 Keyboard Locking 07 83 Scroll Lock Keyboard Locking 07 84 Keyboard Locking 07 85 Keyboard Locking 07 85 Keyboard Locking 07 85 Keyboard Equal Sign 07 86 Keyboard Inti'l 1 7 87 Keyboard Inti'l 2 10 87 Weyboard Inti'l 2 10 88 U-ver 10 88 U-ver 10 89 <						
Keyboard Again 07 79 Keyboard Undo 07 7A Keyboard Cut 07 7B Keyboard Copy 07 7C Keyboard Paste 07 7D Keyboard Paste 07 7E Keyboard Mute 07 7F Keyboard Volume Up 07 80 Keyboard Locking 07 81 Keyboard Locking 07 82 Keyboard Locking 07 83 Keyboard Locking 07 84 Scroll Lock Keypad , 07 85 Keyboard Locking Scroll Lock 07 85 Keyboard Equal Sign 07 86 Keyboard Int'l 1 3 07 87 (Ro) Keyboard Int'l 2 3 3 Image: Interpretation of the property of the prope						
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Keyboard Copy	Keyboard Undo					
Keyboard Paste 07 7D Keyboard Find 07 7E Keyboard Mute 07 7F Keyboard Volume Up 07 80 Keyboard Volume Dn 07 81 Keyboard Locking Caps Lock 07 82 Keyboard Locking Num Lock 07 83 Keyboard Locking Scroll Lock 07 84 Keyboard Locking Scroll Lock 07 85 Keyboard Equal Sign 07 86 Keyboard Equal Sign 07 87 Keyboard Intil 1 07 87 Keyboard Intil 2 07 88 U-viral 07 88 U-viral 07 89 (Katakana/Hiragana) Keyboard Intil 2 4 (Katakana/Hiragana) Keyboard Intil 4 6 Mijiyah 07 8A Adyah 07 8A Adyah 07 8A Adyah 07 8B						
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Keyboard Mute						
Keyboard Volume Up 07 80 Keyboard Volume Dn 07 81 Keyboard Locking Caps Lock 07 82 Keyboard Locking Num Lock 07 83 Keyboard Locking Scroll Lock 07 84 Keypad , (Brazilian Keypad .) 07 85 Keyboard Equal Sign 07 86 Keyboard Int'l 1 07 87 (Ro) 07 87 (Ro) Int'l 2 07 88 U-マ字 (Katakana/Hiragana) 07 89 Keyboard Int'l 2 4 07 89 (Yen) Keyboard Int'l 4 前時無 20½(內) 8A 金別時間(Henkan) 07 8A 20½(內) 8A Keyboard Int'l 5 6 8B 07 8B						
Keyboard Volume Dn 07 81 Keyboard Locking Caps Lock 07 82 Keyboard Locking Num Lock 07 83 Keyboard Locking Scroll Lock 07 84 Keypad , (Brazilian Keypad .) 07 85 Keyboard Equal Sign 07 86 Keyboard Int'l 1 3 07 87 (Ro) Keyboard Int'l 2 07 88 ローマ字 (Katakana/Hiragana) Keyboard Int'l 2 89 (Yen) Keyboard Int'l 4 100 89 (Yen) Keyboard Int'l 4 100 8A 全段時間 07 8A 全段時間 07 8A Eyboard Int'l 5 80 8B						
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Caps Lock						
Num Lock		07	82			
Num Lock Num Lock Keyboard Locking Scroll Lock Neyboard Num Lock Neyboard Num Lock Neyboard Num Lock Num Loc		07	83			
Scroll Lock Keypad , (Brazilian Keypad .) Keyboard Equal Sign 07 86 Keyboard Inti' 1 7 87 87 87 88 87 88 88 97 88 97 88 97 89 89 89 89 89 89 89 89 89 89 89 89 89	Keyboard Locking					
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Keyboard Equal Sign 07 86 Keyboard Int'l 1 3 07 87 (Ro) 07 87 Keyboard Int'l 2 07 88 ローマ字 (Katakana/Hiragana) 07 89 (Yen) Keyboard Int'l 4 100 89 Keyboard Int'l 4 100 80 (Henkan) 07 8A Keyboard Int'l 5 80 (Henkan) 8B		07	85			
Keyboard Int'l 1		07	86			
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Keyboard Inti'2 かたかな ひらがな ローマ字 (Katakana/Hiragana) Keyboard Inti'1 2		07	87			
がたかな ひらがな ローマ字 (Katakana/Hiragana) Keyboard Int'l 2 ¥ (Yen) Keyboard Int'l 4 前時時 変換 (次時前 07 8A 全時時 (Henkan) Keyboard Int'l 5 無変換 07 8B	· · · · · · · · · · · · · · · · · · ·					
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Keyboard Int'l 2						
¥ 07 89 (Yen) Keyboard Int'l 4 前時補 変換 (沙姆南 全時補 (Henkan)) 07 8A (Henkan) Keyboard Int'l 5 無変換 07 8B						
(Yen) Keyboard Int'l 4 前時籍 変致 (內對南 全對稱 (Henkan) Keyboard Int'l 5 無変換 07 8B		07	89			
前候補 変換 (对時期 07 8A 全候補 (Henkan) Keyboard Int'l 5 無変換 07 8B						
変換(対対角 全対策 (Henkan) 07 8A Keyboard Int'l 5 無変換 07 8B	Keyboard Int'l 4					
全時補 (Henkan) Keyboard Int'l 5 無數數 07 8B						
(Henkan) Keyboard Int'l 5 無対策 07 8B		07	8A			
Keyboard Int'l 5 無変換 07 8B						
無変換 07 8B						
(Muhenkan)	無変換	07	8B			
	(Muhenkan)					

USB HID to PS/2 Scan Code Translation Table

Table 3

	Table 3	
Key Name	HID Usage Page	HID Usage ID
Keyboard Int'l 6 (PC9800 Keypad ,)	07	8C
Keyboard Int'l 7	07	8D
Keyboard Int'l 8	07	8E
Keyboard Int'l 9	07	8F
Keyboard Lang 1		
한영	07	90
(Hanguel/English)		
Keyboard Lang 2		
eybbaid Lang 2 한자	07	91
	07	91
(Hanja)		
Keyboard Lang 3		
かたかな	07	92
(Katakana)		
Keyboard Lang 4		
ひらがな	07	93
	07	93
(Hiragana)		
Keyboard Lang 5		
半角/全角	07	94
(Zenkaku/Hankaku)		
Keyboard Lang 6	07	95
	07	
Keyboard Lang 7		96
Keyboard Lang 8	07	97
Keyboard Lang 9	07	98
Keyboard Alternate	07	00
Erase	07	99
Keyboard		
SysReq/Attention	07	9A
Keyboard Cancel	07	9B
Keyboard Clear	07	9C
Keyboard Prior	07	9D
Keyboard Return	07	9E
Keyboard Separator	07	9F
Keyboard Out	07	A0
Keyboard Oper	07	A1
Keyboard Clear/Again	07	A2
Keyboard CrSel/Props	07	A3
Keyboard ExSel	07	A4
RESERVED	07	A5-DF
Left Control	07	E0
Left Shift	07	E1
Left Alt	07	E2
Left GUI	07	E3
Right Control	07	E4
Right Shift	07	E5
Right Alt	07	E6
Right GUI	07	E7
RESERVED	07	E8-FFFF
Scan Next Track	0C	00B5
Scan Previous Track	0C	00B6
Stop	0C	00B7
Play/ Pause	0C	00CD
Mute	0C	00E2
Bass Boost	0C	00E5
Loudness	0C	00E7
	0C	
Volume Up		00E9
Volume Down	0C	00EA
Bass Up	0C	0152
Bass Down	0C	0153
Treble Up	0C	0154
Treble Down	0C	0155
Media Select	0C	0183
Mail	OC OC	018A
Calculator	0C	0192
My Computer	0C	0194
WWW Search	0C	0221
WWW Home	0C	0223
WWW Back	0C	0224
WWW Forward	0C	0225
WWW Stop	0C	0226
	0C	0227
WWW Refresh	0C	022A
WWW Refresh	00	UZZA
WWW Refresh WWW Favorites		Set 1, these keys hav
WWW Favorites	In PS/2 mode, Scan	
	In PS/2 mode, Scan modifier keys. These	
WWW Favorites	modifier keys. These	codes are documen
WWW Favorites Note 1	modifier keys. These These keys have var	codes are document ious legends dependi
WWW Favorites	modifier keys. These	codes are document ious legends dependi
WWW Favorites Note 1	modifier keys. These These keys have var	codes are document ious legends dependi
WWW Favorites Note 1	These keys have var 101 Key Position 42	e codes are document ious legends dependinent to the Enter key.
WWW Favorites Note 1	modifier keys. These These keys have var	codes are document ious legends dependinext to the Enter key.

```
{**}
Byte
      Action
       _____
  00
        No modifier
  01
        Control
  02
        Shi ft
  03
        Control +Shi ft
  04
        Al t
  05
        Control +Al t
  06
        Shi ft+Al t
  07
        Control +Shi ft+Al t
  80
        Wi ndows
  09
        Control +Wi ndows
  0a
        Shi ft+Wi ndows
  0b
        Control +Shi ft+Wi ndows
  0c
        Al t+Wi ndows
  0d
        Control +AI t+Wi ndows
```

Shift+Alt+Windows

Control +Shi ft+Al t+Wi ndows

0e

0f

NOTE: If you see anything other than the bytes listed above that means it's part of an IR combination code.

so basically if you want one button to send Key stroke "W" only then you will have this combination $16,00,00,00,00,04,00,1A,\$ W If you want "Control+W" then it will be $16,00,00,00,04,01,1A,\$; CTRL+W If you want "Shift+W" then it will be $16,00,00,00,04,02,1A,\$; SHFT+W If you want "Control+Shift+W" then it will be $16,00,00,00,00,04,03,1A,\$; CTRL+SHFT+W and so on etc...

 $\{***\}$ Note: only for reference there is no need to change anything here.

The button's numbered as follows:

00	[0]
01	[1]
02	[2]
03	[3]
04	[4]
05	[5]
06	[6]
07	[7]
80	[8]
09	[9]
0a	[Clear]
0b	[Enter]
0c	[Power]
0d	[Windows]
0e	[Mute]
0f	[Info]
10	[Volume up]
11	[Volume down]
12	[Channel up]
13	[Channel down]
14	[FWD]
15	[RWD]
16	[PI ay]
17	[Record]
18	[Pause]
19	[Stop]
1a	[Next]
1b	[Prev]
1c	[#]

```
1d
       [*]
1e
       [Up]
1f
       [Down]
       [Left]
20
21
       [Right]
22
       [OK "Return"]
23
       [Back]
24
       [DVD Menu]
25
       [Live TV]
26
       [Gui de]
       [Zoom]
27
47
       [Music]
       [Recorded TV]
48
49
       [Pictures]
       [Radi o]
50
4A
       [Vi deos]
5a
       [Tel etext]
5B
       [Red]
```

see coded picture next page.

[Green]

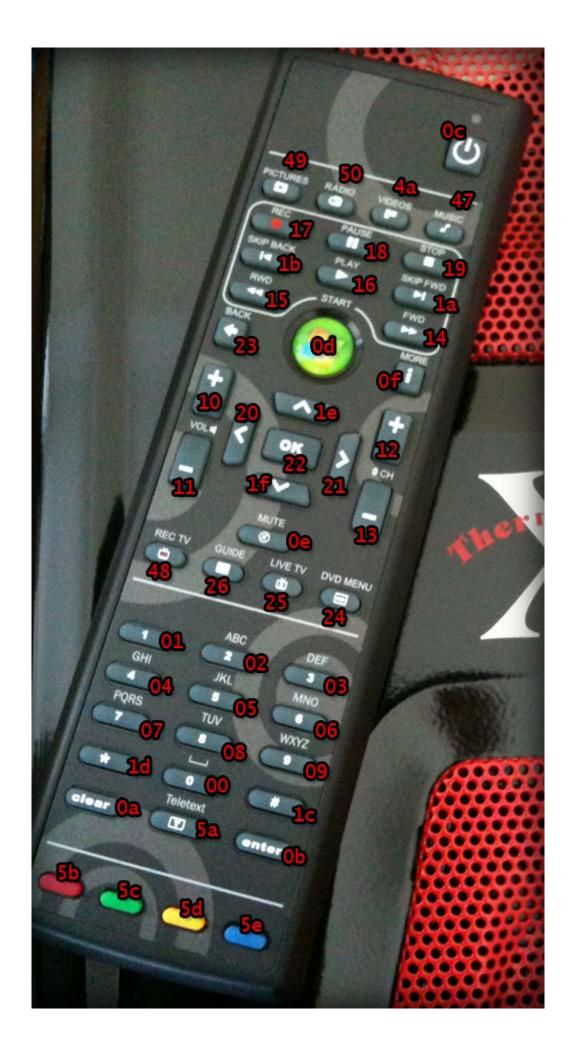
[Yellow]

[Blue]

5C

5D

5E



When it comes to Modifying reg files for the MCE remotes, I hope that I made it like a walk in the park for you!

Credits:

Thanks to John Rennie as I have used and collected most of the information in my tutorial from his site http://xbmcmce.sourceforge.net/. Without the info he collected/created and made available in one place I would have not known from where to start or what to do.

Thanks to XBMC dev team for creating this awesome software, thanks for all the guys who's working hard day and night to make XBMC as good as it is today. Thanks to all the guys working hard on the XBMC Skinning and for making it an eye candy that we can never live without.

Finally thanks to all and everyone who contributed and still contributing to the scene. We have come a long way since the first XBOX days and hope that all continue their great work.

Kind Regards,

EG.