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## How do I automate a key press in AppleScript?

Is it possible to automate the key press of a key (such as "a" or "<") in Mozilla Firefox, Google Chrome or Safari (in this order)? I'd like to automate the key press of "a" for example in Mozilla Firefox for 100 times every x seconds. With x being a value between 1 second and 10 seconds chosen randomly at every key press. What Applescript could make the trick?

Also, where can I find a list of all codes for each key of the keyboard?



## 1 Answer

Run a script like this in AppleScript Editor:

```
activate application "Firefox"
repeat 100 times
   tell application "System Events" to keystroke "a" using command down
   delay (random number from 1 to 10)
end repeat

This would simulate pressing ☆幾←:
tell application "System Events" to key code 123 using {shift down, command down}
```

You can use key down and key up to simulate clicking a button while holding a modifier key:

```
delay 0.5 -- time to release modifier keys if for example the script is run with command-R
tell application "System Events" to tell process "Notification Center"
    try
        key down option
        delay 0.1
        click menu bar item 1 of menu bar 1
    end try
    key up option
end tell
```

The key codes are defined in

/System/Library/Frameworks/Carbon.framework/Versions/A/Frameworks/HIToolbox.framework/Versions/A/Header s/Events.h . Here is a complete list of the key codes defined in Events.h in an alternative format:

0	Α	30	RightBracket	62	RightControl	96	F5
1	S	31	0	63	Function	97	F6
2	D	32	U	64	F17	98	F7
3	F	33	LeftBracket	65	KeypadDecimal	99	F3
4	Н	34	I	67	KeypadMultiply	100	F8
5	G	35	P	69	KeypadPlus	101	F9
6	Z	36	Return	71	KeypadClear	102	JIS_Eisu
7	X	37	L	72	VolumeUp	103	F11
8	C	38	J	73	VolumeDown	104	JIS_Kana
9	V	39	Quote	74	Mute	105	F13
10	ISO_Section	40	K	75	KeypadDivide	106	F16
11	В	41	Semicolon	76	KeypadEnter	107	F14
12	Q	42	Backslash	78	KeypadMinus	109	F10
13	W	43	Comma	79	F18	111	F12
14	E	44	Slash	80	F19	113	F15
15	R	45	N	81	KeypadEquals	114	Help
16	Υ	46	M	82	Keypad0	115	Home
17	T	47	Period	83	Keypad1	116	PageUp
18	1	48	Tab	84	Keypad2	117	${\tt ForwardDelete}$
19	2	49	Space	85	Keypad3	118	F4
20	3	50	Grave	86	Keypad4	119	End
21	4	51	Delete	87	Keypad5	120	F2
22	6	53	Escape	88	Keypad6	121	PageDown
23	5	55	Command	89	Keypad7	122	F1
24	Equal	56	Shift	90	F20	123	LeftArrow
25	9	57	CapsLock	91	Keypad8	124	RightArrow
26	7	58	<b>Option</b>	92	Keypad9	125	DownArrow
27	Minus	59	Control	93	JIS_Yen	126	UpArrow
28	8	60	RightShift	94	JIS_Underscore		
29	0	61	RightOption	95	JIS_KeypadComma		

You can also use EventViewer (which is included with KeyRemap4MacBook) or Key Codes to see the key codes of keys.

```
edited Sep 12 '13 at 17:01
Lauri Ranta
30.7k 2 32 92
```

```
answered Jan 16 '12 at 0:10 daviesgeek 11.1k 15 78 128
```

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