

## N97 Qt Keyboard Codes (QWERTY)

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This article shows how Qt reports hardware keyboard keystrokes via a [QKeyEvent](#). In the event are several properties pertaining to the keystroke:

- `key`
- `modifiers`
- `nativeModifiers`
- `nativeScanCode`
- `nativeVirtualKey`
- `text`

For the N97 S60 platform the following key mappings occur:

For all of the graphic keys, `key`, `nativeVirtualKey`, and the numeric value of the character in `text` are identical, and have the ASCII value of the graphic that would be displayed, given the software mode of the keyboard and the shift state. `nativeScanCode` has the ASCII value of the upper case alphabetic corresponding to the key.

For unshifted keys, `modifiers` is zero and `nativeModifiers` is 0x1. If shift is held down during the keystroke, `modifiers` has a value of 0x2000000 and `nativeModifiers` has a value of 0x501. If `Sym` is held down during the keystroke, `modifiers` has a value of zero and `nativeModifiers` has a value of 0x2801. If the north-west pointing arrow is held down, `modifiers` is zero and `nativeModifiers` has a value of 0x3001.

Of the special keys, backspace (west pointing arrow) has a `key` value of 0x1000003 (in all shifts), `nativeVirtualKey` value of 0x8, `nativeScanCode` value of 0x1. Carriage-return has a `key` of 0x1000005, `nativeVirtualKey` of 0xD (ASCII carriage return), `nativeScanCode` of 0x3.

The left cursor control button has a `key` of 0x1000012, `nativeVirtualKey` of 0xF807, `nativeScanCode` of 0xE. The right cursor control button has a `key` of 0x1000014, `nativeVirtualKey` of 0xF808, `nativeScanCode` of 0xF. The up button has a `key` of 0x1000013, `nativeVirtualKey` of 0xF809, `nativeScanCode` of 0x10. The down button has a `key` of 0x1000015, a `nativeVirtualKey` of 0xF80A, `nativeScanCode` of 0x11. The center button has a `key` of 0x1010000, `nativeVirtualKey` of 0xF845, `nativeScanCode` of 0xA7.

None of the above special key values appear to be affected by any of the shift keys, although the modifiers are the same as with the alphabetic keys.