Package 'KeyboardSimulator'

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KeyboardSimulator-package

Keyboard and Mouse Input Simulation for Windows OS

Description

Control your keyboard and mouse with R code by simulating key presses and mouse clicks. The input simulation is implemented with the Windows API.

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See Also

Useful links:

- https://github.com/ChiHangChen/KeyboardSimulator
- Report bugs at https://github.com/ChiHangChen/KeyboardSimulator/issues

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keybd.press

Simulate Key Press

Description

Simulate keyboard key presses. Multiple keys can be pressed simultaneously by using + as separator (see Examples). See keyboard_value for supported keys.

Usage

```
keybd.press(button, hold = FALSE)
```

Arguments

button character. The key press to simulate (not case sensitive).

hold logical. Whether the key should be held down. If TRUE, the key can be released

by pressing the phsical key on the keyboard or by using the keybd.release

function.

See Also

```
keybd.release
```

Examples

```
## Not run:

# press one key
keybd.press("a")

# press multiple keys
keybd.press("Alt+F4")

# press multiple keys using hold
keybd.press("Alt", hold = TRUE)
keybd.press("F4")
keybd.release("Alt")

## End(Not run)
```

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keybd.release

Simulate Key Release

Description

Simulate the release of keyboard keys held by keybd.press. Multiple keys can be released simultaneously by using a + separator (see Examples). See keyboard_value for supported keys.

Usage

```
keybd.release(button)
```

Arguments

button

character. The key release to simulate (not case sensitive).

See Also

```
keybd.press
```

Examples

```
## Not run:

# Move to the third working window
keybd.press("Alt", hold = TRUE)
keybd.press("Tab")
Sys.sleep(0.1)
keybd.press("Tab")
keybd.release("Alt")

## End(Not run)
```

keybd.type_string

Type a raw string

Description

Type a raw string base on a given string.

Usage

```
keybd.type_string(string)
```

Arguments

string

character. The string expected to output (case sensitive).

Examples

```
## Not run:
# Type 'Hello world!'
keybd.type_string("Hello world!")
## End(Not run)
```

keyboard_value

keyboard_value

Description

List of supported keyboard keys, along with their virtual-key and hardware scan codes. A field indicating whether the key is an "extended key" with a 0xE0 prefix byte is also included to differentiate between duplicate keys on the keyboard and num pad. For example, while the 1 key usually behaves the same as the 1 key on the num pad, some applications see these as two distinct keys.

Usage

keyboard_value

Format

An object of class data. frame with 137 rows and 5 columns.

Details

Supported keys:

- a
- b
- c
- d
- e
- f
- g
- h
- i
- j
- k
- 1
- m

- n
- o
- p
- q
- 1
- s
- t
- · u
- w
- x
- y
- z
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P
- Q
- R
- S
- T
- U
- V
- W
- X

7

- Y
- Z
- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- num0
- num1
- num2
- num3
- num4
- num5
- num6
- num7
- num8
- num9
- f1
- f2
- f3
- f4
- f5
- f6
- f7
- f8
- f9
- f10
- f11
- f12
- backspace
- tab
- enter

- shift
- ctrl
- alt
- capslock
- esc
- pageup
- pagedown
- end
- home
- left
- up
- right
- down
- insert
- space
- del
- numlock
- win
- . .
- ~
- !
- @
- #
- \$
- %
- ^
- &
- *
- (
-)
- -
- _
- +
- =
- [
- {
-]

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- }
- \
- |
- ;
- :
- ,
- "
- ,
- _ _
- .
- >
- /
- ?

References

Hardware Scan Codes, Virtual-Key Codes

mouse.click

Simulate Mouse Clicks

Description

Simulate left, right, and middle mouse clicks.

Usage

```
mouse.click(button = "left", hold = FALSE)
```

Arguments

button character. Allowed values are "left", "right", and "middle".

hold logical. Whether the button should be held down.

See Also

mouse.release

10 mouse.move

Examples

```
## Not run:
# left mouse click
mouse.click(button = "left")
# left mouse click and hold
mouse.click(button = "left", hold = TRUE)
## End(Not run)
```

mouse.get_cursor

Get Current Cursor Coordinate

Description

Get current cursor coordinate of screen .

Usage

```
mouse.get_cursor()
```

Examples

```
## Not run:
mouse.get_cursor()
## End(Not run)
```

mouse.move

Move Cursor to Specific Location

Description

Move cursor to specific coordinate of screen .

Usage

```
mouse.move(x, y, duration = NA, step_ratio = 0.01)
```

mouse.release 11

Arguments

x numeric. X-axis of screen. y numeric. Y-axis of screen.

duration numeric. Cursor movement time in seconds, there might be some delay on dif-

ferent computer.

step_ratio numeric. Ratio of total distance in each step, only available when duration is

not NA.

Examples

```
## Not run:
# Move cursor to middle of screen in 1080FHD monitor
mouse.move(x = 960, y = 540)
# Move cursor to middle of screen in 1080FHD monitor within 3 seconds
mouse.move(x = 960, y = 540, duration = 3)
## End(Not run)
```

mouse.release

Simulate Mouse Click Release

Description

Simulate the release of mouse button held by mouse.click.

Usage

```
mouse.release(button = "left")
```

Arguments

button character. Allowed values are "left", "right", and "middle".

See Also

```
mouse.click
```

Examples

```
## Not run:
# right mouse click and hold
mouse.click(button = "right", hold = TRUE)
# release right click
mouse.release(button = "right")
## End(Not run)
```

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