xdotool X11 input automation

CONCEPTS

xdotool fakes X11 input and drives windows. It needs an X server; under pure Wayland it only reaches XWayland apps.

search / getactivewindow fills the stack
↓ %1 %0
Window stack lives for one run
↓ cmd
windowactivate, key, ... act on %1 by default

Commands chain in one call and share the window stack: xdotool search --name Firefox windowactivate key ctrl+t.

Without --window, input goes through XTEST to the focused window. With --window it uses XSendEvent, which many apps ignore.

KEYBOARD

`xdotool key <keys>`
Press key combination(s)

`xdotool key ctrl+shift+t`
Combos are joined with +

`xdotool key Return Tab`
Several keys in a row

`xdotool type "<text>"`
Type a string

`xdotool type --delay <ms> "<text>"`
Slow down typing (default 12 ms)

`xdotool key --clearmodifiers <keys>`
Release held modifiers first

`xdotool key --window <id> <keys>`
Send to one window (XSendEvent)

`xdotool keydown <key>`
Hold a key down

`xdotool keyup <key>`
Release a held key

MOUSE

`xdotool mousemove <x> <y>`
Move pointer to absolute position

MOUSE (cont.)

`xdotool click <button>`
Click: 1 left, 2 middle, 3 right

`xdotool click 4`
Scroll up (5 scrolls down)

`xdotool getmouselocation`
Print x, y, screen, window

`xdotool mousedown <button>`
Press and hold a button

FIND WINDOWS

`xdotool search --name <regex>`
Windows whose title matches

`xdotool search --class <regex>`
Windows by WM_CLASS

`xdotool search --onlyvisible <regex>`
Only mapped windows

`xdotool getactivewindow`
Focused window id

`xdotool selectwindow`
Click a window to get its id

`xdotool search --sync --class <regex>`
Wait until a match appears

WINDOW CONTROL

`xdotool windowactivate <id>`
Switch desktop, raise, focus

`xdotool windowactivate --sync <id>`
Wait until it is active

`xdotool windowmove <x> <y>`
Move the window

`xdotool windowsize <w> <h>`
Resize (pixels or %)

DESKTOPS

`xdotool get_desktop`
Current desktop number

`xdotool set_desktop <n>`
Switch to desktop n (0-based)

SCRIPTING

`xdotool sleep <seconds>`
Pause inside a chain (fractions ok)