xdotool X11 input automation

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

CONCEPTS

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

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)

KEYBOARD (cont.)

`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

`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 mousemove_relative -- <dx> <dy>`
Move pointer by an offset

`xdotool click --repeat <n> --delay <ms> 1`
Repeated clicks

MOUSE (cont.)

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

`xdotool mouseup <button>`
Release a button

`xdotool mousemove --window <id> <x> <y>`
Position relative to a window

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 --pid <pid>`
Windows of one process

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

FIND WINDOWS (cont.)

`xdotool getwindowname <id>`
Print a window title

WINDOW CONTROL

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

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

`xdotool windowfocus <id>`
Focus without raising

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

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

`xdotool windowminimize <id>`
Minimise a window

`xdotool windowraise <id>`
Raise to the top

`xdotool windowclose <id>`
Destroy the window

`xdotool windowquit <id>`
Ask the app to close

`xdotool windowkill <id>`
Kill the owning client

WINDOW CONTROL (cont.)

`xdotool windowstate --add FULLSCREEN <id>`
Set state (also --remove, --toggle)

`xdotool getwindowgeometry --shell <id>`
Position and size as variables

DESKTOPS

`xdotool get_desktop`
Current desktop number

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

`xdotool set_desktop --relative -- -1`
Go to the previous desktop

`xdotool set_desktop_for_window <id> <n>`
Send a window to a desktop

SCRIPTING

`xdotool exec <cmd>`
Run a command inside a chain

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