Qtile Python tiling WM

START HERE

Super + Enter
Open a terminal

Super + R
Run a command prompt

Super + H / J / K / L
Focus left / down / up / right

Super + Shift + H / J / K / L
Move the window

Super + 1-9
Switch group

Super + Tab
Next layout

Super + W
Close the window

Super + Ctrl + R
Reload the config

Screen one per monitor, holds the bar
Group workspace, shown on one screen
Layout tiling rule of the group
Window one client

CONCEPTS

Super is mod4 in the default config.py (~/.config/qtile/config.py). Every binding on this sheet is a default you can change.

Config is plain Python. Keys call lazy objects (lazy.window.kill()): they are queued and only run on the key press.

Groups are not tied to a screen: a group is pulled to the focused screen when you switch to it.

FOCUS AND MOVE

Super + H / Super + L
Focus left / right

Super + J / Super + K
Focus down / up

Super + Space
Focus the other pane

Super + Shift + H / Super + Shift + L
Move window left / right

Super + Shift + J / Super + Shift + K
Move window down / up

Super + Ctrl + H / Super + Ctrl + L
Grow window left / right

Super + Ctrl + J / Super + Ctrl + K
Grow window down / up

Super + N
Reset all window sizes

Moving past the edge in the Columns layout creates a new column; growing at a screen edge shrinks instead.

WINDOWS

Super + Enter
Launch a terminal

WINDOWS (cont.)

Super + W
Kill the focused window

Super + F Toggle fullscreen

Super + T Toggle floating

Super + R
Open the prompt widget

Super + Button1 › drag
Move a floating window

Super + Button3 › drag
Resize a floating window

GROUPS AND LAYOUTS

Super + 1-9 Switch to group

Super + Shift + 1-9
Send window to group and follow

Super + Tab Next layout

Layouts (names for config)

Layout	Idea
`Columns`	Default: columns of stacked windows
`Max`	One window fills the screen
`MonadTall`	Main pane left, rest stacked right
`MonadWide`	Main pane top, rest below
`Bsp`	Binary tree splits
`TreeTab`	Tabs listed in a side tree

Columns and Max are active by default; the others are commented out in the default layouts list.

SESSION

Super + Ctrl + R
Reload the config

Super + Ctrl + Q
Shut down Qtile

LAZY COMMANDS

`lazy.spawn("<app>")`
Run an application

`lazy.spawncmd()`
Open the prompt on the bar

LAZY COMMANDS (cont.)

`lazy.reload_config()`
Reload the config

`lazy.restart()`
Restart (X11 keeps windows)

`lazy.next_layout() / lazy.prev_layout()`
Cycle layouts of the group

`lazy.screen.next_group() / prev_group()`
Move to adjacent group

`lazy.screen.toggle_group()`
Back to the last group

`lazy.group["<name>"].toscreen()`
Show a group

`lazy.window.kill()`
Close the focused window

`lazy.window.togroup("<name>")`
Move window to a group

`lazy.window.toggle_floating()`
Float or tile the window

`lazy.window.toggle_fullscreen()`
Fullscreen or restore

`lazy.layout.increase_ratio()`
Widen the master area

`lazy.group["<g>"].dropdown_toggle("<n>")`
Toggle a scratchpad dropdown

`lazy.function(<func>, *args)`
Call func(qtile, *args)

Lazy calls cannot be used inside your own functions; use @lazy.function to run your own code on a key press.

CLI

`qtile start`
Start a session (run from .xinitrc)

`qtile start -b wayland`
Start with the Wayland backend

CLI (cont.)

`qtile start -c <file>`
Use another config file

`qtile check`
Check the config for errors

`qtile shell`
Interactive command shell

`qtile shell -c <command>`
Run one qshell command and exit

`qtile cmd-obj`
List root commands

`qtile cmd-obj -o <obj> [<id>]`
List commands of an object

`qtile cmd-obj -o <obj> -f <fn> -i`
Show docs of a function

`qtile cmd-obj -o <obj> -f <fn> -a <arg>`
Call a function with args

`qtile run-cmd -g <group> <cmd>`
Spawn a command in a group

cmd-obj passes arguments as strings only; objects are layout, window, group, bar, widget, screen and root.

RECIPES

Bind a key to an app

```
from libqtile.config import Key
from libqtile.lazy import lazy

keys.append(
    Key([mod], "b",
lazy.spawn("firefox"),
desc="Browser")
)
```

Validate then reload

```
qtile check
# fix reported errors, then
Super+Ctrl+R
qtile cmd-obj -f reload_config
```

Inspect and drive from a script

```
qtile cmd-obj -o group 1 -f info
qtile cmd-obj -o group 3 -f
toscreen
qtile cmd-obj -o group 1 -f
set_label -a A
```

Start from X

```
# ~/.xinitrc
exec qtile start
```