

FlightGear Short Reference

FlightGear is a free flight simulator developed collectively over the Internet under the GPL.

Main Web site: <http://flightgear.sourceforge.net/>

Program Start: Linux/UNIX via the script `runfgfs` under `/FlightGear`,
Windows via the Batch file `runfgfs.bat` under `/FlightGear`

Keyboard controls:

Tab. 1: Main keyboard controls on the numeric keypad with activated NumLock key.

Key	Action
Pg Up/Pg Dn	Throttle
Left Arrow/Right Arrow	Aileron
Up Arrow/Down Arrow	Elevator
Ins/Enter	Rudder
5	Center aileron/ elevator/rudder
Home/End	Elevator trim

Tab. 2: View directions accessible after de-activating NumLock on the numeric keypad.

Numeric Key	View direction
Shift-8	Forward
Shift-7	Left/forward
Shift-4	Left
Shift-1	Left/back
Shift-2	Back
Shift-3	Right/back
Shift-6	Right
Shift-9	Right/forward

Tab. 3: Autopilot and related controls.

Key	Action
Ctrl + A	Altitude hold toggle on/off
Ctrl + G	Follow glide slope 1 toggle on/off
Ctrl + H	Heading hold toggle on/off
Ctrl + N	Follow NAV 1 radial toggle on/off
Ctrl + S	Autothrottle toggle on/off
Ctrl + T	Terrain follow toggle on/off
Ctrl + U	Add 1000 ft. to your altitude
F11	Autopilot altitude dialog
F12	Autopilot heading dialog

Tab. 4: Special action of keys, if autopilot is enabled.

Key	Action
Up/Down Arrow	Altitude adjust
Ins/Enter	Heading adjust
Pg Up/Pg Dn	Auto Throttle adjust

Tab. 5: Special keyboard controls.

Key	Action
a/A	Speed up/slow down (time acceleration)
b	Both gear brakes on/off
h/H	Change color of HUD/toggle HUD off forward/backward
i/I	Minimize/maximize HUD
m/M	Change time offset (warp) used by t/T forward/backward
P	Toggle instrument panel on/off
p	Toggle pause on/off
t/T	Time speed up/slow down forward/backward
x/X	Zoom in/out
v	Cycle view modes
W	Toggle full screen mode on/off (Mesa/3dfx/Glide only)
z/Z	Change visibility (fog) forward/backward
,	Left gear brake (useful for differential braking)
.	Right gear brake (useful for differential braking)
]	Extend flaps
[Retract flaps
F2	Refresh Scenery tile cache
F3	Save screenshot under <code>fgfs-screen.ppm</code>
F6	Toggle autopilot target between current heading and waypoint
F8	Toggle fog on/off
F9	Toggle texturing on/off
F10	Toggle menu on/off
ESC	Exit program

Tab. 6: Alternative function key commands accessible via Shift + key.

Key	Action
Shift-F1	Restore flight from <code>fgfs.sav</code>
Shift-F2	Save current flight to <code>fgfs.sav</code>
Shift-F3	Read a panel from a property list
Shift-F4	Re-read global preferences from <code>preferences.xml</code>
Shift-F5/F6	Shift the panel in y direction
Shift-F7/F8	Shift the panel in x direction
Shift-F10	Toggle data logging of FDM on/off

Mouse controlled functions: There are three mouse modi. In the usual mode (pointer cursor) panel's controls can be operated with the mouse. To change a control, click with the left/middle mouse button on the corresponding knob/lever. While the left mouse button leads to small increments/decrements, the middle one makes greater ones. Clicking on the left hand side of the knob/lever decreases the value, while clicking on the right hand side increases it.

Right clicking the mouse activates the simulator control mode (cross hair cursor). This allows control of aileron/elevator via the mouse in absence of a joystick (enable `--enable-auto-coordination` in this case).

Right clicking the mouse another time activates the view control mode (arrow cursor). This allows changing direction of view via the mouse.

Right clicking the mouse once more resets it into the initial state.

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