



Oolite

Version 1.80

Installation

Mac OS X

Drag the 'Oolite' folder (containing Oolite, this ReadMe, the License and the 'AddOns' folder) to any convenient place on your hard drive. If you are upgrading from a previous version of Oolite then drag the Oolite application from this disk's Oolite folder to your own Oolite folder.

To run the game, double-click on the file 'Oolite.app' (the Oolite icon) in the 'Oolite' folder.

Oolite requires Mac OS X 10.5 or later

Windows

A folder called 'Oolite' has been created in Start -> Program Files. This folder has icons for running the game, the reference sheet, the link to the official Oolite website, the Advice for New Commanders guide, this ReadMe and an uninstall program.

To run the game, choose the Oolite icon in the 'Oolite' folder.

Start Menu

When starting Oolite, a menu with six options will be displayed.

Start New Commander:

Start a new commander. Three starting scenarios are available by default, though expansion packs may add more. New players may wish to start with the Tutorial scenario which introduces the basics of flight and combat. A commander started with the Strict Mode option will never have any expansion packs affecting them, even if you later install some.

Load Commander:

Load an existing commander file

View Ship Library:

View the specifications and descriptions of the ships and other common space objects

View Keyboard Settings:

View the current keyboard settings

Manage Expansion Packs:

Install and remove expansion packs. Not all expansion packs can be installed and removed by this method – others, especially older ones, can be found at http://wiki.alioth.net/index.php/EXP_List

Exit Game:

Exit the game

Controls and Commands

The current keyboard settings can be viewed by selecting "View Keyboard Settings" at the start menu. The list below describes the default key settings.

Mac OS X

Oolite is mostly controlled from the keyboard and joystick, although the mouse can also be used in full-screen mode.

Windows and Linux

Oolite can be controlled from the keyboard, joystick or mouse

In Dock Commands:

- 1 or f1
 - **Launch.** Propels your spacecraft from docked station.
- 2 or f2
 - **Quick-Save / Save / Load**
Use **up** and **down** cursor keys to select, **return** to choose.
 - **Game Options...**
 - **Autosave**
Use **left** and **right** to enable/disable the autosave feature.
When enabled, Autosave will create a saved game every time you launch from a planetary station.
 - **Docking Clearance Protocol**
When enabled, the main Galcop station (and some OXP stations) will use the docking clearance protocol, and docking without clearance will result in a fine.
 - **Sound Volume**
Use **left** or **right** to adjust the volume for effects and spoken messages.
 - **Spoken Messages**
Use **left** or **right** or **return** to toggle speech on/off.
Spoken messages uses the default voice chosen in System Preferences on Mac, or a selectable voice on Windows and Linux.
 - **Music**
Use **left** and **right** to toggle music on/off.
 - **Full Screen Mode**
Use **left** or **right** to select screen size and refresh rate.
Changes will only apply the next time you switch into full-screen mode.
 - **Play in Full Screen / Play in Window (Windows / Linux only)**
Press **Enter** to toggle between Window and Full Screen game view.
(Mac: Press **⌘F** during flight to toggle between the two.)
 - **Wireframe Graphics**
Use **left** and **right** to select/deselect retro-look wireframe graphics mode.
 - **Graphics Detail**
Use **left** or **right** to adjust the desired level of graphics detail. The number of options available depends on your graphics hardware.
 - **Gamma**

Use **left** or **right** to adjust the gamma correction setting if your monitor requires it.

- **Joystick Configuration**

Press Enter to go to the joystick calibration and configuration screen.

- **Back**

Brings you back to the previous screen.

[**End Game and Return to Menu**

Press return to reset the game to the starting menu.

[**Exit Game (Windows / Linux only)**

Press **Return** to quit the game.

3 or f3 **Ship Outfitting / Ship Purchase** (toggles between the two)

Use **up** and **down** cursor keys to select, **return** to purchase.
Use **left** and **right** cursor keys to move between pages.

4 or f4 **Ship and Station Interfaces**

Use up and down cursor keys to select, return to open the selected interface.
Use left and right cursor keys to move between pages

5 or f5 **Status / Ship's Manifest** (toggles between the two)

Use left and right cursor keys to move between pages

6 or f6 **Short Range Chart / Galactic Chart** (toggles between the two)

Use **cursor keys** or the **mouse button** to select a hyperdrive target system.
Use **Home** key to select the current system.

On the Galactic Chart only, you may type a star name to locate it.

Also on the Galactic Chart:

'A' plots the route from your current system to your target system (requires advanced navigational array).

'?' highlights systems by economy, government or tech level (requires advanced navigational array).

On the Short Range Chart:

'i' shows information for each system (economy, government and tech level).

7 or f7 **Planetary Database** (shows data on the selected system)

8 or f8 **Commodity Market**

Use **up** and **down** cursor keys to select,
right to purchase commodity, **left** to sell commodity.
Return buys or sells as much of the selected commodity as possible.

Flight Key Commands:

Attitude Controls:

Left & Right Roll

Up & Down Pitch

, & . Yaw

Holding **Ctrl** will turn more slowly.

Drive controls:

w Increase Speed

s Decrease Speed

Hyperspeed:

j Toggle the in-system hyperspeed drive ("Torus Jump Drive") on and off. The drive is disabled by nearby mass/gravity effects.

Hyperdrive:

h Activate the hyperdrive, also known as the witchspace jump drive. This drive must have a target destination selected in one of the charts.

g Activate the Galactic Hyperdrive (if installed).

Fuel Injection:

i Activate the afterburner Witchdrive Fuel Injectors (if installed).

Other controls:

p Pause / un-pause the game (only during flight).

While paused you can access some elements of the Options menu by pressing **2** or **f2**.

Also while paused you can press **o** to Hide/Show the HUD. Useful for taking screenshots.

Weaponry:

a Fire main weapon for the facing chosen

Underscore Toggle weapons lockdown on/off

Missiles, mines and pylon mounted equipment:

r Activate target identification system (deactivating the missile/mine system).

t Enable targeting for the current missile, or arm the current mine.

If the target identification system is active and locked on,

then this also locks a missile onto the selected target.

y Switch to the next missile or mine available (requires Multi-Targeting System).

Shift + t Immediately target nearest incoming missile.

u If target identification is active, deactivate it and reactivate the missile/mine system. If missiles are active, clear any targets (places them in safety mode).

m Launch the current missile or mine (it must be locked on target, or armed first), and switch to the next missile available.

Selectable Equipment and Multi-function Displays:

Shift-n Next selectable equipment

Shift-Ctrl-n Previous selectable equipment

n Activate selectable equipment

b Secondary activation key for selectable equipment (not used by all equipment)

Tab Activate selectable equipment in fast activation slot 1

0 Activate selectable equipment in fast activation slot 2

; Rotate the currently selected multi-function display

: Select the next multi-function display, if your HUD has more than one

Target System Memory Expansion:

+ Lock on to next target in memory (if installed).

- Lock on to previous target in memory (if installed).

Anti-Missile ECM:

e Activate anti-missile Electronic Counter-Measures (if installed).

Scanner:

z Adjust scanner zoom ratio (only during flight).
This allows you to 'zoom in' to navigate around small, close-to objects.
A small indicator next to the compass indicates the current scanner ratio (from 1:1 to 5:1).
Z (shift-z) Zoom out to 1:1 scanner ratio.

Advanced Space Compass:

**** Change compass mode (if the Advanced Space Compass is installed). This toggles your compass between showing the location of the planet, main station (if close enough), sun, your current target, the station beacon, witchpoint buoy, and various additional beacons.
Shift- Change compass mode (reverse cycling)

Communications:

` View communications log.
Allows you to see recent ship-to-ship communications.
L (shift-l) Request / Cancel / Renew docking clearance.

View screens:

1 or f1 View forward
2 or f2 View aft
3 or f3 View port
4 or f4 View starboard
v Toggle between external views

5 or f5 Status / Ship's Manifest (see above)

6 or f6 Short range Chart / Galactic Chart (see above)

7 or f7 Planetary Database (see above)

8 or f8 Commodity Market (see above)

Automated Docking:

c Begin/Abandon automated docking sequence with the main station, or current target.
If only one station is in range, no targeting necessary (requires Docking Computer),
s Toggle docking music on/off (requires Docking Computer).
C (shift-c) Fast docking (without docking sequence), advances the game clock by 20 minutes.
(requires Docking Computer).

Ejecting cargo items:

D (shift-d) Eject one cargo pod.
R (shift-r) Rotate cargo to determine what will be ejected.

Escape Pod:

Esc-Esc Launch Escape Pod (if installed). Requires fast double tap of the Escape key.

Other Commands:

*** (asterisk)** Take screenshot (writes a '.png' file to the oolite-saves folder under oolite.app)

⌘Q (Mac only): Quit

shift-esc / shift-Q (Windows / Linux only): Quit

Ctrl-⌘f (Mac only): Switch between full-screen and windowed mode.
(Windows: Choose 'Play in Full Screen / Play in Window' in the Game Options.)

F (shift-F) Toggle FPS display.

M (shift-M) (In full-screen only) Toggle mouse control on and off. X-axis is mapped to roll. To map the x-axis to yaw, use **Ctrl+Shift+M**:
Mouse left-right controls roll.
Mouse forward-back controls pitch.
Left mouse button fires weapons.
Right mouse button cancels roll and pitch, centering the controls.

⌘? (Mac only): Display control keys and license in a Help window (in windowed mode).

Changing user preferences in Windows:

The user preferences defaults file .GNUstepDefaults

The file <installation dir>/oolite.app/GNUstep/Defaults/.GNUstepDefaults contains the current settings for fullscreen mode and display resolutions, together with the user preference settings for sound volume, reduced detail (Yes/No), wireframe graphics display (Yes/No), and the shader effects level (Off, Simple, Full), in case your system supports shaders. All these can be changed by either the Game Options... menu, or by directly editing the .GNUstepDefaults file. The recommended way to change settings is to use the in-game menu. See below for examples of directly editing the preferences file. Note that .GNUstepDefaults will not be present immediately after the game's installation. You will need to run Oolite at least once to have it created.

Switching between full screen and windowed mode, or changing resolution

To change the fullscreen mode resolution, you can use the Game Options... menu or alternatively edit the .GNUstepDefaults file by changing the display_width and display_height values, and ensuring the fullscreen property has a value of <*BY>.

.GNUstepDefaults editing examples

These settings will give a fullscreen display of 800x600, about one third sound volume, reduced detail set to 'No', wireframe graphics set to 'Yes', and shader effects set to 'Simple':

```
{
  NSGlobalDomain =
  {
    };
  oolite.exe =
  {
    display_width = <*I800>;
    display_height = <*I600>;
    fullscreen = <*BY>;
    "reduced-detail-graphics" = *BN>;
    "shader-effects-level" = <*I2>;
    volume_control = <*R0.26>;
    "wireframe-graphics" = <*BY>;
  };
}
```

And these settings will give a fullscreen display of 1400x1050, full sound volume, reduced detail set to 'No', wireframe graphics set to 'No', and shader effects set to 'Full':

```
{
  NSGlobalDomain = { };
  oolite.exe = {
    display_width = <*I1400>;
    display_height = <*I1050>;
    fullscreen = <*BY>;
    "reduced-detail-graphics" = *BN>;
    "shader-effects-level" = <*I3>;
    volume_control = <*R1>;
    "wireframe-graphics" = <*BN>;
  };
}
```

There are quite a few other settings that can be used inside .GNUstepDefaults, some are:

```
"use-texture-lod-bias" = NO;
"splash-screen" = NO;
"mouse-control-in-windowed-mode" = YES;
```

For more information please refer to http://wiki.alioth.net/index.php/Hidden_Settings_in_Oolite.

Test Builds

Starting with Oolite 1.77 there are two different versions of the game. A normal version without debugging tools and a slightly slower version with debugging options that can be used with the console. This test build version will be useful for oxp developers. The test builds have the following extra features:

You can use a console with test builds to directly type in Java Script commands.

While paused you can access the following debugging options:

0	Dump a list of all entities in the log-file.
b	Enables collision test debugging.
c	Enables octree debugging.
d	Enables all debug flags.
s	Enables shader debug messages.
x	Enables drawing of bounding boxes around all entities.
n	Disables all debug flags and displays HUD again.
Left/Right	Halve/Double Time Acceleration Factor

When pressing shift-F, the FPS display will show additional info, including a TAF indicator.

Helpful Information

For more information on playing Oolite visit <http://www.oolite.org> .

Oolite Development Project Page at <https://developer.berlios.de/projects/oolite-linux> (for all platforms, including Macs and Windows)

Browse the Oolite Wiki at http://wiki.alioth.net/index.php/Oolite_Main_Page .

Frequently Asked Questions at http://wiki.alioth.net/index.php/Oolite_FAQ .

Most Oolite xExpansion Packs (OXPs) are available at <http://wiki.alioth.net/index.php/OXP> .

For answers to questions about playing Oolite, customising Oolite and anything else Oolite related, post to the Oolite Bulletin Boards at <http://www.aegidian.org/bb> .

We are immensely grateful to all the people who have been testing Oolite and slowly bringing it towards perfection.

Thanks to all of you!

In the event this application crashes, please send an email to oolite.bug.reports@gmail.com, and attach the crash log (found at `~/Library/Logs/CrashReporter/Oolite.crash.log` for the Mac version, `<Oolite installation folder>/oolite.app/Logs/Latest.log` for the Windows version and `~/Oolite/Logs/Latest.log` for the Linux version).

You can also report bugs and give feedback at <http://www.aegidian.org/bb>

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Oolite is making use of various external open source libraries, some of them modified to fit certain requirements of the game. For more information about where to find the source code of those libraries, as well as information about the modifications required to make them build for Oolite, please refer to the file *ExternalLibrariesSourceCodeChanges.txt*, found inside the Doc folder of the game's source code distribution. Visit <https://github.com/OoliteProject/oolite/> for details and Oolite's source code download.

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