

## 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 10.4 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.

# **Basic Instructions**

# 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 / Begin New Game

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.
- Sound Volume
- Use left or right to adjust the volume for effects and spoken messages.
- Show Growl Messages (Mac only)
   Use left or right to toggle the priority of messages you want to be shown.
- Spoken Messages
  - Use left or right or return to toggle speech on/off. Spoken messages uses the default voice chosen in System Preferences.
- Music
  - Use left and right to toggle music on/off.

  - (Mac only): Also used to toggle the iTunes integration on/off. See below for more details about iTunes integration.
- 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.) Reduced Detail
- Use left and right to turn reduced detail on/off.
- Removing some graphic complexity increases the frame rate on slower Computers. Wireframe Graphics
- Use left and right to select/deselect retro-look wireframe graphics mode. Detailed Planets
- Use left or right to select/deselect procedurally generated planet rendering.
- Shader Effects
- Use left or right to adjust the desired level of shaders utilisation between None, Simple and Full. (Not available if your graphics hardware has no shaders support.) • Joystick Configuration
- Press Enter to go to the joystick calibration and configuration screen.
- Back
  - Brings you back to the previous screen.

	<ul> <li>Reset to stri</li> </ul>	ct gameplay / Reset to unrestricted play		
	Strict play •Exit (Window	urn to reset the game. y disables any expansion packs and places gameplay into 'classic' mode. vs / Linux only) turn to quit the game.		
3 or f3	Ship Outfitting	/ Ship Purchase (toggles between the two)		
		own cursor keys to select, <b>return</b> to purchase. ght cursor keys to move between pages.		
5 or f5	Status / Ship's	s Manifest (toggles between the two)		
6 or f6	Short Range Chart / Galactic Chart (toggles between the two)			
	Use <b>Home</b> key On the Galacti Also on the Ga 'A' plots t '?' takes On the Short F	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). '?' takes you directly to the Carrier Market. On the Short Range Chart: 'I' shows information for each system (economy, government and tech level).		
7 or f7	Planetary Data	Planetary Database (shows data on the selected system)		
8 or f8	Commodity Market / Carrier Market			
	(toggles betwe			
	On the Commo	odity Market: nd <b>down</b> cursor keys to select,		
		urchase commodity, left to sell commodity.		
		uys or sells as much of the selected commodity as possible.		
	On the Carrier Use <b>up</b> a	nd down cursor keys to select, <b>Return</b> to agree the contract,		
	pressing	'?' takes you to the Galactic Chart with the destination system selected. assenger contracts requires a passenger berth.		
Elight Ko	/ Commands:	issenger contracts requires à passenger bertit.		
Attitude Co	ontrois:			
Left & Righ	nt Roll			
Up & Dowr , & .	N Pitch Yaw			
Drive cont				
w	Increase Speed	d		
s	Decrease Spee			
Hyperspee	d:			
j	Toggle the in-sys	tem hyperspeed drive ("Torus Jump Drive") on and off. The drive is		
Lhunanduitu		arby mass/gravity effects.		
Hyperdrive		drive, dee keeven ee the witebaacee iuma drive. This drive must have a		
h		drive, also known as the witchspace jump drive. This drive must have a ion selected in one of the charts.		
g	Activate the Ga	alactic Hyperdrive (if installed).		
Fuel Inject				
i	Activate the aft	erburner Witchdrive Fuel Injectors (if installed).		
Other cont	rols:			
р		the game (only during flight).		
	paused you ca	you can access some elements of the Options menu by pressing 2 or f2. Also while in access the following debugging options:		
	0	Dump a list of all entities in the log-file.		
	b c	Enables collision test debugging. Enables octree debugging.		
	d	Enables all debug flags.		
	0 S	Hides the HUD. Useful for taking screenshots. Enables shader debug messages.		
	x	Enables drawing of bounding boxes around all entities.		
	n Left/Right	Disables all debug flags and displays HUD again. Halve/Double Time Acceleration Factor		
	-			
Weaponry: a		n for the facing chosen		
Underscor	e Toggle weapons			
		ounted equipment:		
r t		entification system (deactivating the missile/mine system). for the current missile, or arm the current mine.		
•		ification system is active and locked on,		
	then this also loc	ks a missile onto the selected target.		
y Shift + t		tt missile or mine available (requires Multi-Targeting System). et nearest incoming missile.		
u	If target identificat	tion is active, deactivate it and reactivate the missile/mine system. If missiles are		
m		ny targets (places them in safety mode). t missile or mine (it must be locked on target, or armed first), and switch to the ailable.		

# Selectable Equipment:

Shift-n	Next selectable equipment
Shift-Ctrl-n	Previous selectable equipment
n	Activate selectable equipment

	m Memory Expansion:				
+	Lock on to next target in memory (if installed). Lock on to previous target in memory (if installed).				
Anti-Missile					
e	Activate anti-missile Electronic Counter-Measures (if installed).				
Scanner:					
z	Adjust scanner zoom ratio (only during flight).				
Z (shift-z)	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). Zoom out to 1:1 scanner ratio.				
	pace Compass:				
١.	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.				
Communicat					
L (shift-l)	View communications log. Allows you to see recent ship-to-ship communications. ft-I) Request / Cancel / Renew docking clearance.				
View screens					
1 or f1 2 or f2	View forward View aft				
3 or f3	View port				
4 or f4 v	View starboard 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 D	locking:				
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 C (shift-c)	Toggle docking music on/off (requires Docking Computer). Fast docking (without docking sequence), advances the game clock by 20 minutes. (requires Docking Computer).				
Ejecting carg	no iteme:				
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.				
Specialist Ec 0 (zero)	uipment: Activate/deactivate specialist equipment (if installed).				
Energy Bomb:					
Tab	Activate energy bomb (if installed).				
Other Com	mands:				
* (asterisk)	Take screenshot (writes a '.png' file to the oolite-saves folder under oolite.app)				
жQ	(Mac only): Quit				
shift-esc / shift-Q	(Windows / Linux only): Quit				
жF	(Mac only): Switch between full-screen and windowed mode.				
F (shift-F)	(Windows: Choose 'Play in Full Screen / Play in Window' in the Game Options.) Toggle FPS and Objs debugging display on and off.				
. ,	(In full-screen only) Toggle mouse control on and off. X-axis is mapped to roll. To map the x-axis to yaw, use <b>Ctrl+Shift+M</b> :				
M (shift-M)	Mouse left-right controls roll. Mouse forward-back controls roll.				

ж?

Mouse forward-back controls pitch.

iTunes Integration in Mac OS X: iTunes integration allows you to choose the music to be played in the background as you are running Oolite. With iTunes integration switched on, Oolite looks for music in iTunes playlists with the following names:

	Oolite-Inflight	should contain music tracks to be played during flight,
	Oolite-Docked	should contain music tracks to be played while in dock,
and	Oolite-Docking	should contain music tracks to be played during the docking
		sequence.

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).

You should set up these playlists yourself, choosing whatever music you like to listen to while playing Oolite.iTunes integration relies on Applescript and the ability to run iTunes and Oolite simultaneously and therefore may not be a good choice on a slower machine. If your Mac is fast enough to allow you to do this normally then there should be no problem.

### 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 immediatly 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

The long standing issues with textures being corrupted when resizing the game window have been resolved as of version 1.73. If in doubt, delete .GNUstepDefaults and restart the game. This will start you in windowed mode.

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" = *EN>;
"shader-effects-level" = <*I3>;
volume_control = <*R1>;
"wireframe-graphics" = <*EN>;
};
```

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.

# **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 eXpansion Packs (OXPs) are available at <a href="http://wiki.alioth.net/index.php/OXP">http://wiki.alioth.net/index.php/OXP</a> .

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

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

Thanks to all of you!

## Note: my email address for feedback is AHRUMAN@OOLITE.ORG

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

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).

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VirtualRingBuffer

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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 <a href="https://developer.berlios.de/projects/oolite-linux">https://developer.berlios.de/projects/oolite-linux</a> for details and Oolite's source code download.

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