

Gravity Well

Table of Contents:

[Overview](#)

[Installation](#)

[Control Summary](#)

[Playing The Game](#)

[The Machines of War](#)

[Economic Model](#)

[Licensing and Authorization Codes](#)

[Purchasing a License](#)

[Copyright Information](#)

Overview

The age old conflict rages onward, spreading into another previously uncharted region of space. The race is on once again to establish strategic footholds and vital supply lines. Four separate races struggle for dominance in a continuing battle for the stars. Planet by planet, sector by sector, the galaxy is claimed by those who can take it.

Gravity Well is a fast paced game of planetary conquest for Windows. It is a strategic war game that is played like an arcade game. The game represents a simple interstellar economy that supports the discovery and conquest of new worlds. The player's role is to scout new planets and establish landing sites for the colonization ships that follow. Once a landing site is established, freighters will be dispatched to begin construction of a base and colony complex. Beware though, you are not alone. There are others with the same designs on this sector of space as you have. Be prepared to fight for every stinking dirtball.

Installation

Gravity Well is easy to install, requiring no particular path or directory structure. The following steps describe how to install the program.

1. Copy the Gravity Well program files to a directory on your hard drive. It does not have to be in your path.
2. Locate the GWELL.EXE file on your hard drive using the File Manager.
3. Using the mouse, select and drag the GWELL.EXE file from the file list in the File Manager and drop it in the Games group in the Program Manager. If your CPU has a math coprocessor, you should use GWELL_FP.EXE. It has been compiled especially for computers with a math coprocessor and will be slightly faster; it will not run if your computer does not have a math coprocessor.
4. To play Gravity Well, double click on the Gravity Well icon in the Games group of the Program Manager.

Control Summary

Key Commands

Key commands are used for controlling your ship and your view.

Left Arrow	Rotate Ship to the Left.
Right Arrow	Rotate Ship to the Right.
Up Arrow	Apply forward thrust.
Down Arrow	Fire Gun.
F	Fire Gun.
F1 or Home	View Blue Leader's fighter.
F2 or PgUp	View Red Leader's fighter.
F3 or End	View Purple Leader's fighter.
F4 or PgDn	View Yellow Leader's fighter.
Esc	Refreshes the window.
Pause	Pauses the game. Time ceases to tick.

Mouse Commands

The mouse is used to select a ship. The display window will scroll automatically to keep the selected ship in view. When a ship other than the player's fighter is selected, the ship will be drawn in white rather than blue in the view window. When a ship is selected, its name is displayed in red in the ship list and its stats are scrolled into view. The radar display shows the selected ship surrounded by a white box.

- Clicking in the radar display will view the closest friendly ship to the cursor.
- Clicking on the status displays for your fighter views your fighter.
- Clicking in the ship list will view the selected ship.
- Clicking on a friendly ship in the main view window will view that ship.

Playing The Game

Your Objective

You will start in each new sector with a well established complex. This complex produces the raw and finished materials you need to expand to other planets. Your objective is to claim all of the planet in this sector for your empire. As you will soon discover, there are others with the same plans. Three opponents will be fighting for the same small group of planets. The only sure way to defeat an opponent is to destroy all of its colonies and freighters, halting its expansion efforts in this sector.

Establishing a New Complex

To establish a new complex, you must simply visit the planet of your choice and land there, planting a flag in the dirt and claiming it for your empire. Once you have successfully landed, freighters from your empire will automatically be dispatched to do the hard work, that of digging sewers, making buildings, and otherwise scratching up a good place to call home. Eventually, they will build up the complex to parallel the one you started with.

Once a ship construction facility has been completed, the new complex is capable of building freighters and fighters. As the war ensues, you may decide to have new fighters constructed closer to the action. New fighters are constructed by Labs and by Space Docks. To instruct a ship construction facility to be the fighter manufacturing location, you must visit there personally. After you have landed there, future fighters will be constructed there.

View Window

The view window provides the primary view of your fighter and other ships. This window maintains a view of one of your ships at all times; it is scrolled automatically to keep the selected ship in view. Using the mouse in this window, you can select ships in your navy to watch. With the exception of fighters, the selected ship is drawn in white to set it apart from others of its kind. A view of your opponents' fighters can be selected using keyboard commands. The selected ship will appear in the Radar Display surrounded by a white box. The selected ship appears in the Ship List with red text.

Radar Display

The radar display provides a reduced view of the entire sector. Stars are shown as large yellow dots. Planets are shown as medium-sized green dots. A colored box will appear around explored planets, indicating which player has claimed it. Ships are displayed as small colored dots. All freighters appear in the same color regardless of allegiance as they are strictly commercial vessels. The selected ship in the View Window will appear surrounded by a white box in the Radar Display. The selected ship appears in the Ship List with red text.

Ship Indicators

Beneath the Radar Display is a set of status indicators for the selected fighter. When an enemy fighter is selected, its information will be displayed here. When your fighter or any of your other units is selected, information about your fighter is displayed here. Clicking the mouse anywhere on the ship's indicators switches the view to your fighter.

The status indicators are described here from top to bottom and from left to right.

- Damage Indicator - A solid green bar indicates no damage. As your ship accumulates damage, this bar will become red. When this bar is completely red, your fighter is destroyed.
- Velocity Indicator - A bright cyan bar will fill this indicator to show your speed relative to your maximum

speed. You will find that accelerating to full speed and decelerating to a complete stop will take a considerable distance.

- Clock - This shows your current system time. If it's incorrect, you should check your Control Panel.
- Nearest Star Indicator - The yellow indicator always points to the nearest star to your fighter.
- Nearest Planet Indicator - The green indicator always points to the nearest planet to your fighter.
- Nearest Enemy - The red indicator always points to the nearest enemy unit to your fighter. The background of this dial will turn red when you are near an enemy unit.

Ship List

The ship list shows information about all of your units, except your fighter. Each list entry is composed of three lines of information as follows:

- Unit number and name - This information identifies the unit type and unique number. If a friendly unit other than your fighter is selected in the view window, this text will be displayed in red and scrolled into view. For Space Docks and Sensor Arrays, the name will also include a number indicating the High Port to which the unit is attached.
- Damage Indicator - This indicator shows damage accumulated by the unit. When the bar is completely red, the unit is destroyed. In this list, the damage indicators are scaled such that the relative strengths of the various units is apparent.
- Materials Indicator - This bar shows the amount of materials stored by the unit. In the case of Freighters and Colonies, this is a measure of 'raw' materials. For Bases and High Ports, this is a measure of 'finished' materials. Refer to The Economies of Gravity Well for a description of how materials are manufactured and expended.

The Machines of War

There are nine different types of units in Gravity Well; these are the vehicles and structures that make up each player's empire. The following discussion describes the role of each of these units in the game.

Remember, empires may come and go but the scarred planet remains.

Base

The base is the first installation built on a new planet. It serves as the headquarters for the installations that follow. The base is one of the only two units that can convert raw materials produced by a colony into finished materials.

The base includes a military garrison to man planetary defense sites. Planetary defenses will automatically respond when enemy vessels are in range.

Colony

The colony is the source of raw materials for the expansion of your empire. Colonies are the only units in the game that produce raw materials. Raw materials can be transported by freighters to other planets to construct new colonies, bases, and high ports. When all of your colonies and freighters have been destroyed, you cannot expand in the sector.

Comm Center

Comm centers gather electronic intelligence data and relay it to your fighter. This provides the information necessary to maintain the radar display.

Fighter

The fighter is the leader of your forces in the sector. It is the most versatile of all the units. It is also the only unit that the player directly controls.

In a scouting role, the fighter is used to stake a claim on new planets and to defend that claim. Doing so automatically directs friendly units to start colonizing the planet as quickly as possible. Freighters will be dispatched when ready to construct planetary installations and a high port.

As an offensive weapon, the fighter is capable of destroying enemy planetary complexes so that friendly installations can be constructed on the planet. Also, enemy shipping is disrupted by intercepting freighters before they are able to construct new installations or resupply those in desperate need.

The fighter is also defends the units it leads. The fighter's role is to defend friendly installations and vessels from enemy attack.

Freighter

The freighter is the vehicle of colonization and commerce in Gravity Well. It fulfills several needs.

Primarily, the freighter is used to transport materials to new planets for the purpose of colonization. When colonizing a planet, each installation that is constructed consumes the freighter as well as its cargo. In order to construct an installation, a freighter must be completely filled with cargo. The freighter's role in colonization consists of constructing three facilities, a base, a colony, and then a high port, in that order.

Second, the freighter is used to resupply installations in need of raw materials. Units at a planet which

does not have a colony will slowly run out of materials due to combat damage repairs. Freighters will attempt to keep these units supplied with the materials they need until a new colony is built.

High Port

The high port is essentially an orbiting base. It provides a landing site for the fighter. It also serves as the support structure for the space dock and sensor array units.

The high port includes a military garrison to man orbital defenses. Orbital defenses will automatically respond when enemy vessels are in range.

Lab

The lab is a planetary installation that is capable of constructing space ships. It will automatically construct new freighters and fighters when necessary, providing the host base has sufficient finished materials available.

Sensor Array

Sensor arrays gather electronic intelligence data and relay it to your fighter. This provides the information required to maintain the radar display.

Space Dock

The space dock is an orbital installation that is capable of constructing space ships. It will automatically construct new freighters and fighters when necessary, providing the host high port has sufficient finished materials available.

Economic Model

The economic model governs the flow of materials in Gravity Well. This model describes how materials are manufactured, transported, and consumed. This process is completely automated in the game, requiring no user interaction. The relationships between the units are shown here only to provide a deeper understanding of the mechanisms in place.

Unit construction is an important role of the Lab/Base and Space Dock/High Port complexes, and of the Freighter, which is the primary vehicle for colonization. The constructor unit must have enough finished materials available to construct the new unit. A new unit will only be constructed if no other unit of that type is present, either on the planet or in orbit, as appropriate.

Base

- Converts raw materials to finished materials.
- Repairs itself from its own stores of finished materials.
- Constructs Lab from finished materials.
- Constructs Comm Center from finished materials.

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Colony

- Supplies the Base it accompanies with raw materials.
- Repairs from the Base it accompanies using finished materials.
- Supplies the High Port in orbit with raw materials.

Comm Center

- Repairs itself from the stores of the Base it accompanies, consuming finished materials.

Fighter

- Repairs from a Base if dirtside. Consumes finished materials.
- Repairs from a High Port if docked. Consumes finished materials.

Freighter

- Supplies High Port with raw materials.
- Repairs from a High Port it is orbiting with, using finished materials.
- Supplies Base it is orbiting with raw materials if no Colony is present.
- Loads raw materials from Colony it is orbiting.
- Repairs from a Base it is orbiting. Consumes finished materials.
- Constructs Base. The cargo holds must be full and construction consumes the freighter.
- Constructs Colony. The cargo holds must be full and construction consumes the freighter.
- Constructs High Port. The cargo holds must be full and construction consumes the freighter.

High Port

- Converts raw materials to finished materials.
- Repairs itself from its own stores of finished materials.
- Constructs Space Dock using finished materials.
- Constructs Sensor Array using finished materials.

Lab

- Repairs from the stores of the Base it accompanies. Consumes finished materials.
- Constructs Fighter from finished materials of the Base it accompanies.
- Constructs Freighter from finished materials of the Base it accompanies.

Sensor Array

- Repairs from the High Port it is attached to, consuming finished materials.

Space Dock

- Repairs from the High Port it is attached to, consuming finished materials.
- Constructs Fighter from finished materials of the High Port it accompanies.
- Constructs Freighter from finished materials of the High Port it accompanies.

Licensing and Authorization Codes

Gravity Well is distributed under the SHAREWARE concept. This is NOT free or "public domain" software. Upon installation of Gravity Well, you are allowed to use it free of charge for 30 days in order to try the program. After evaluating the software, you are expected to decide whether to continue using it or not. If you choose to continue using the software, you must purchase a license. If you find that Gravity Well does not meet your needs or perform to your expectations, simply remove it from your system.

A license to use Gravity Well on your system can be purchased directly from ARITEK Systems, Inc. A license for Gravity Well must be purchased for each CPU that will be executing the program on a regular basis, even if they all execute it from a common server on a network. A license gives you the right to use OUR software on YOUR computer forever.

Until you purchase a software license, the Authorization dialog will appear every time you execute Gravity Well. This serves as a reminder that you are only evaluating the software and have not yet purchased a license. When you purchase a license, you will be issued a software license number and authorization code. These are entered into the Authorization dialog, available by selecting Game|Authorize from the Gravity Well menu bar. Once entered, Gravity Well will run without notification messages. Features which are disabled in the demonstration will be enabled once the software is authorized. You should save your license number and authorization code in a safe place in case you should have to reload Gravity Well in the future.

Purchasing a License

A license to use Gravity Well on your system can be purchased directly from ARITEK Systems, Inc. The cost is \$29.95 in U.S. dollars. When ordering by mail, please send a check or money order; it is never wise to mail cash. When ordering by phone, we will gladly accept VISA or MasterCard, no COD orders, please. We will issue your license number and authorization code promptly.

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Gravity Well

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