

M A C T R E K

A space legend comes to Cocoa

USER MANUAL



SHIELDS UP, PHOTON TORPEDOS ARMED, PHASERS STANDING BY

Chris Lukassen, 2009

Revision 1.5.0

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A space legend comes to Cocoa

Revision Control

REVISION	DESCRIPTION	RESPONSIBLE
1.0.0	Initial Release	C. N. Lukassen
1.0.1	Bug Fix <ul style="list-style-type: none">- FrameWorks are now also Universal- Fixed echo in SoundEffect- Quicktime Framework properly referenced- Released as non-debug	C. N. Lukassen
1.1.0	Update <ul style="list-style-type: none">- Fixed bug in server deselect- Fixed bug in message duplication- Improved connection handling and shutdown- Better separation in classes- Improved dashboard behaviour- Cleanup messages, playlist etc when quitting- Added RSA (Universal)- Enabled manual entry of servers- Added Classical Theme- Updated the User Manual- Placed source under SCM- Added Credits pane (Pascal Defcom)- Added online help, coup, quit and war declaration- Added response to HOG call- Included relocatable server- Send Quit to server when ending game- Fix server install problem- Fix problem with dmg appearing on right half of screen- Released Developer docs	C. N. Lukassen
1.1.1	Bug Fix <ul style="list-style-type: none">- Fixed problem in hog call- Changed default message "Active"	C. N. Lukassen
1.1.2	Bug Fix <ul style="list-style-type: none">- Fixed RSA resolve (Karthik)	C. N. Lukassen

REVISION	DESCRIPTION	RESPONSIBLE
1.2.0	<p>Update:</p> <ul style="list-style-type: none"> - Added macro handling - Added reading macros from file - Added Rendezvous (1667734) - Added William Balcerski to credits (artwork) - Added support for sending / receiving RCD / RCM (1682996) - Added distress keys - Added experimental resolution switching (1678784) - Added improvements in cloaking behaviour - Added new graphics for wrench, fuel and army - Added map-able mouse keys (1666849) - Added voice commands (1663917) - Added continuous mouse steering (1636254) - Added interaction on galactic map (1636263) - Added new tracker sync screenupdates with server (1636277) - Added support for command-Q (Apple Quit) - Added licence file - Added support for sturgon & hockey servers (1595617) - Bugfix in RCD handling (1684823) - Bugfix race condition causing hangs resolved (1691205) - Bugfix return focus to GameView after send message (1636270) - Bugfix keymap changes are sometimes not processed - Bugfix RSA enabling error resolved - Bugfix settings only saved upon game entry (1674341) - Bugfix server reading of messages - Bugfix to send messages up to player "k" - Bugfix local echo of own messages - Bugfix display of shield / label while cloaked - Bugfix hogcall fixed (1625370) - Changed cleanup of mainnibs - Changed handling of settings (1682996) - Changed default key for quit is now "Q" not "q" (1684995) - Changed presentation of war declaration (1682448) - Changed entry screen for backport to OS X 10.3 - Changed presentation of key map by sorting them - Changed label only shown for 1 player (COW compliance) - Changed graphics classic theme (improved) - Changed settings dialogue (tab pane) - Changed presentation of cloaked ships (COW compliance) - Changed disabled debug labels (COW compliance) - Changed logging mechanism - Changed User Manual / Licence 	C. N. Lukassen

REVISION	DESCRIPTION	RESPONSIBLE
1.3.0	<ul style="list-style-type: none"> - Added support for multiple LAN cards and IPv6 - Added detonation circle - Added improved localhost server - Added transparent fuel gauge - Added hull strength ring - Added instant play (auto login) (1718727) - Added tip of the day (1722468) - Added support for wait queues (1718734) - Added help button with manual to game (1723627) - Added initial support for UDP - Added new sounds - Bugfix no longer show timed out servers - Bugfix can now quickly switch between servers - Bugfix autorelease bug in server reader (1704614) - Bugfix return torp/phaser not checked (1705633) - Changed fonts to remove dependency (1722574) - Changed help window to transparent HUD - Changed splash screen - Changed implementation of network (speed bump!) - Changed size of console logging - Changed client size (reduce) - Changed default mouse buttons (1722573) 	C. N. Lukassen
1.4.0	<ul style="list-style-type: none"> - Added detection of new client release - Bugfix Ghostbust on idle (1750190) - Bugfix Reconnect fails (1750207) - Bugfix Message destination g..v not possible (1751357) 	C. N. Lukassen
1.5.0	<ul style="list-style-type: none"> - Documentation errors (1756477) - Timeout on metaserver down (1765107) - Problem launching server more than once (1780013) - Additional hints (1780585) - Broken builds on 10.5.1 (2153779) - Torp explosion delay(2242646) - Timed lift of outfit display (2242650) - Cluttered galactic (2242653) - Speech problem (2242677) - Crash problem (2684245) 	C. N. Lukassen

The numbers indicate an issue (bug or feature request) that was traced through the sourceforge tracker at: http://sourceforge.net/tracker/?group_id=165507

Credits

MacTrek was made by:

- Chris Lukassen, design, coding, etc.
- Judith Lukassen, HMI, graphics
- Noa Lukassen, sleepless nights

MacTrek is based roughly on the design of JTrek. Which on it's turn is based on one of the older versions of COW. It is hard to be complete, but never the less an attempt is made.

Robert Temple, William Balcerski, Pascal Defcom, Chris Guthrie, Ed James, Scott Silvey, and Kevin Smith, Tedd Hadley, Andy McFadden, Eric Mehlhaff, J. Mark Noworolski, Nick Trown, Lars Bernhardsson, Sam Shen, Rick Weinstein, Jeff Nelson, Jeff Waller, Robert Kenney, Steve Sheldon, Jonathan Shekter, Dave Gosselin, Heiko Wengler, Neil Cook, Kurt Siegl, Larry Denys, Kurt Olsen, Brandon Gillespie and many others.

For those of you i forgot to mention, i am deeply sorry, drop me an email and i'll include you in the next version.



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Introduction

What is Netrek?

Netrek is a free to play open source software cross platform multiplayer hybrid multi-directional shooter and real time strategy game for up to 16 players. The goal of the game is to capture all the opposing team's planets. It combines "twitch" style reflexive dogfighting with extensive team play and strategy.

History

Netrek has a development history beginning as far back as 1972 (Alto Trek). It was also heavily influenced by the PLATO game Empire, written in 1977. It substantially reached its current form and its peak player-base in the early 1990s as a contemporary of XPilot but has dwindled steadily since then as more newbie friendly games became available. It is no longer under active development, but its client and server code still contain many design features that would be of interest to amateur or professional network games developers.

Basics

The graphics of Netrek are simple top-down format. You have an external view of your ship from above and the game map is laid out on a 2-D plane.

Two teams face off, each controlling an equal number of planets. Planets slowly generate armies, which may be picked up by players. Enemy planets may be taken over (or retaken) by dropping enough armies on them. Armies annihilate each other on a 1 to 1 basis, so to take over a planet with 4 armies, you need to drop at least 5. A planet with 0 armies is considered to be neutral until someone puts an army on it to claim it, though it can be orbited by warring fractions (except for a base)

Planets can be bombed to kill off armies, unless the army count is 4 or less. Also, you can only pick up excess armies from your team's planets, where "excess" is defined as over 4. Some ships have the ability to randomly bomb 2 armies at a time instead of 1, so it would be possible to bomb an army down to a population of 3 but never less than that.

Before you can pick up armies, however, you need a kill. You can obtain kills either by killing an enemy ship or by bombing enemy armies. Your kill count resets back to 0 every time you die. Consequently, people with 2 or more kills are generally targeted for ogging just to remove the threat of them carrying armies around.

Players control various classes of ships:

Scout (SC)



The scout is the fastest ship in the game, which makes it good for bombing out-of-the-way enemy planets. Since the scout can only hold 2 armies, it wasn't very suitable for taking over enemy planets, but it's speed is unrivaled

Destroyer (DD)



A fast ship, strong enough and agile enough to make it a popular dogfighter, but not as fast as a scout. The Destroyer can carry up to 5 armies, which is the largest number which would be needed to capture a bombed planet. Most top players feel the Destroyer is too weak to be of much use in normal game situations.

Assault Ship (AS)



The assault ship is a dedicated army carrier. It can hold a lot more than a Destroyer and is a great deal stronger, but is poorly equipped for dogfighting. The Assault Ship is the ship of choice for bombing and capturing well-defended planets, due to its toughness. Also, every other ship in the game can carry 2 armies per kill, while the assault ship can carry 3 armies per kill.



Cruiser (CS)

A good front line ship, stronger but slower than a destroyer, but still with enough maneuverability to dodge a lot of torpedoes. The cruiser is generally the most popular ship for both dogfighting and capturing planets. It is also the default ship.



Battleship (BB)

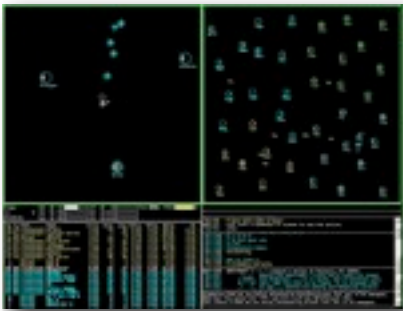
More powerful than a cruiser, but slow and sluggish. The battleship's speed makes it unsuitable for the defense of a wide zone, but it is quite good at defending a single point, like an important frontline planet or the team's starbase.



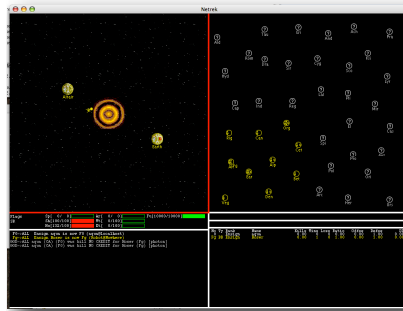
Starbase (SB)

Vastly more powerful than a battleship and even slower to move around, the Starbase can be the basis for the front line. Your team can only have one, and if it's destroyed, your team must wait 30 minutes before another can be used. Proper starbase piloting is generally considered to be an entirely separate skill from dogfighting. Starbases are also the primary targets of ogging, since attempting to dogfight a starbase generally results in death.

Up to 16 players, often widely separated geographically, connect to a central server running at some site. There are many public servers in the world. The individual players use a client program (e.g. MacTrek) to connect to the server of their choice. Once in the game, the server receives commands from the client (and hence the player) and sends the positions and status of the other ships, planets, etc., to all players, several times per second. The net effect of all this is to create a virtual galaxy where everyone can see each other and interact, or to put it less academically, everyone plays in the same galaxy to try to take it over.



The original COW client



The JAVA Client



The new MacTrek client

How to read this manual?

You have already worked your way through the introduction. Next are the game concepts, and if you want to become a really good player, you should read Appendix A. The rest of us jumps on the the installation and configuration section.

If you get lost in the menus you can find the relevant section in a logical order in the remainder of this document.

Game Concepts

Tournament Mode

Tournament mode starts you when have 4 vs. 4 and the teams are not diagonally opposite (e.g. Fed vs. Kli is no good). You can get DI (damage inflicted) only during tournament mode, and more DI leads to promotions. DI is a composite score based on total planets taken, armies bombed, and ships killed. During Tournament mode you receive no DI for attacking non-warring races, i.e. those races not represented by a team of 4 or more.

Ratings

Your rating will be updated only during tournament mode. Ratings are derived from your planet bombing, killing (offense) and getting killed (defense) rates, normalized with respect to the average of all players. That is, a rating of 1.00 means you have exactly the average of all the current players.

Plasmas

To get plasma torpedoes, get 2 kills, and refit to [DD/CA/BB]. These home in on a target but can be shot down with phasers.

Hints

- Watch your fuel. When you run out, your weapons wont fire, you cant go very fast to run away, and you'll be helpless. If you run out of fuel, go orbit a friendly or neutral fuel planet. Avoid chasing ships, unless you know they are badly damaged or out of fuel. Its very hard for you to dodge their fire, and very easy for them to dodge yours. On the other hand, if you can get someone to chase you, waste them!
- Learn who your enemies are. If you shoot at friendly ships, not only do you waste fuel, but you show everyone that you are a beginner. And many players will specifically go for beginners just for the easy kill. Change speeds a lot. It is often useful to use high speed to get into the action quickly. But at high speeds you will have a hard time dodging enemy torpedoes.
- If you are not in combat, fly around with your shields down. This enables you to repair a little damage, and you use less fuel that way. But beware, you are very vulnerable if you are surprised.
- Each additional warp halves your turning speed. Slow down to turn.
- Watch your galactic map to get the big picture. Pay attention to cloaked ships. Enemy ships near you will cause you to go to yellow or red alert. This can be used to tell if a cloaked ship nearby you is an enemy or not.
- Torpedoes you detonate wont hurt your teammates.
- Bomb enemy planets with armies on them.

How to Conquer Planets

You conquer planets by first bombing the armies on enemy planets down to less than four. Below 4 you cannot bomb them. (Neither can the other team pick up from them, however.) Here is one time where the AS is useful: the AS always bombs at least two, so if the planet is at 5 and you bomb it with an AS, it will always go to three or less! If the planet is at 6, however, you should first bomb it down to 5 with a normal ship and then have the AS bomb.

Then you need to get some kills you can only carry armies if you have killed with your current ship and beam up some armies from one of their own planets (you can only beam up armies if the planet has more than four armies, so you have to keep your enemies from bombing your planets!). Once you have armies, orbit the enemies planet and beam them down. Each of your armies destroys one of the enemies armies, so you will need more armies to capture a planet than the planet currently has. Usually, as a rule of thumb, it takes 5 armies to capture a planet, unless of course, it has fewer armies than that on it.

Game Pattern:

The teams have all their planets and usually about 30 armies per planet. So, the object in this stage is to bomb out as many of the enemies armies as possible, while preventing them from bombing out your own.

Most of the armies are bombed away, so the players concentrate on capturing the enemy planets. Its kind of pointless to try to capture enemy planets while they still have a lot of armies, so this is why players don't try to capture planets until this stage. If the enemy has lots of armies, it is very easy for them to simply recapture their planets.

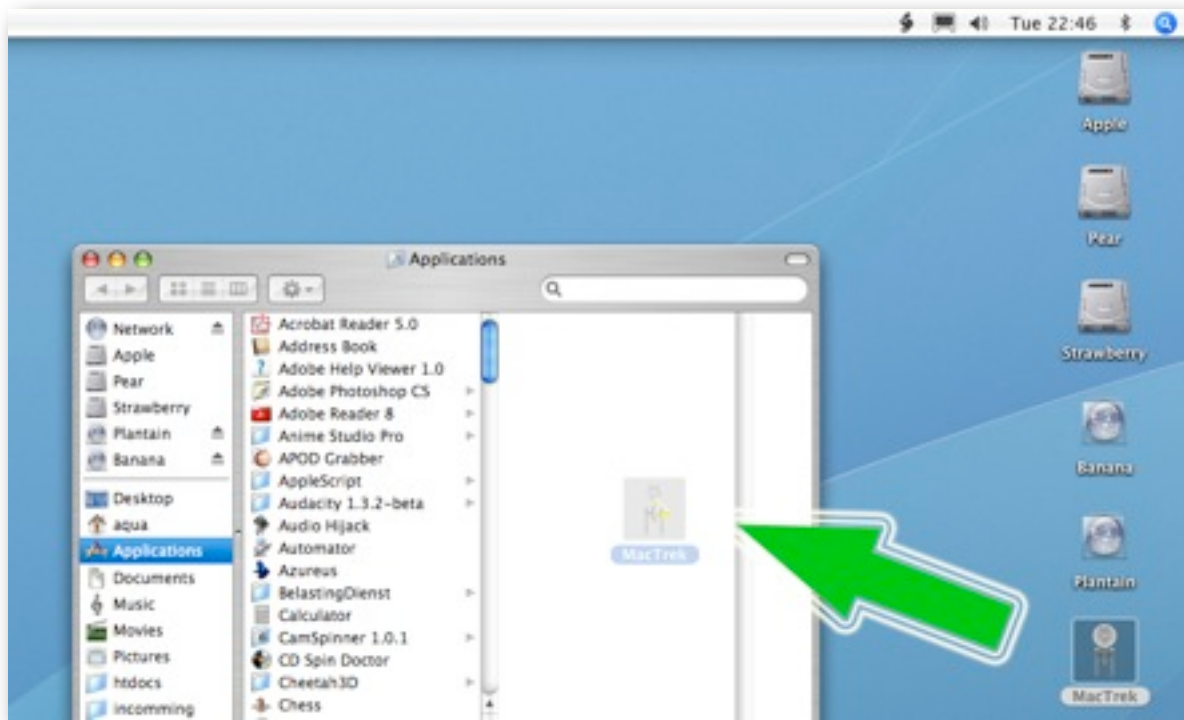
The players have used up most of their armies trying to take planets, so they are waiting for more to grow on their own planets so they can take the enemies. What few they do get often end up dying, as the ship that was carrying them is hunted down by hordes of enemy ships.

One of the teams has lost several of its planets. It only has a few of the ones near its home world. They don't have many armies to recapture their worlds because they don't have many worlds to grow them. But their worlds are well defended because they come back real close to them when they die.

Getting started

Installing

You can install MacTrek simply by dragging it to your application folder. On some systems MacTrek will not automatically unzip, double click the archive icon you have downloaded to obtain the executable.

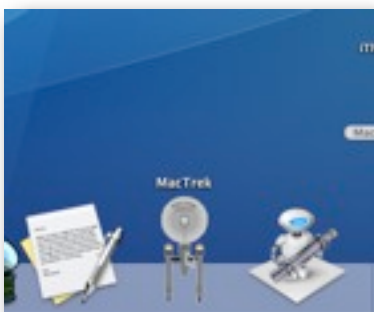


Drag and drop

Launching

You launch MacTrek by double-clicking the icon. The server (when installed) can be launched from within the MacTrek client program. The program will show a splash screen while loading all sounds and graphics. When the progress bar is completely filled you will progress automatically.

Once completely launched you are in the game menu, from here you can select a number of options depending on the state of the game (connected, logged in or playing). **Instant action** will try to log you on as guest in a cruiser on the busiest server.



Launching the client



The splash screen (Version 1.1.x)



The fully loaded game

Settings

General settings



The general settings have impact on how the game is presented, and not on how it is controlled. You can use these settings to fine tune the look and feel of MacTrek.

SETTING	EFFECT
Accelerate	On some slower computers (PPC 1GHz) it might be beneficial to cut some corners in the drawing to dramatically increase performance. As a side effect, some artifacts can occur under rare conditions.
Graphics theme	MacTrek supports currently 3 themes. The themes are composed of graphic and sound effects. The latest netrek graphics are available as well as a MacTrek only graphics theme. The Classic theme is based on the original graphics. This is also the theme for the galactic map.
Tracking	A tracker that will synchronize your map with server updates, more smooth but may cause temporary “freezes” use with care.
Show tips	Will show usefull? tips during startup, press the next button to show a new tip.

Mouse



Default settings for mouse buttons :

BUTTON	DEFAULT EFFECT
Right	Fire Photon Torpedoes toward Mouse Cursor
Left	Change course toward Mouse Cursor
Middle	Fire Phaser toward Mouse Cursor
Wheel	Zoom in / out (cannot be changed)

Pressing the **left mouse** button in the galactic map while keeping the **command** (⌘) key down will create a new center-point for the galactic map (off centre).

Action keymap



In order to control your vessels in MacTrek. You will need to define the keys you are going to use. Default keys (these can be changed by clicking in the table):

KEY	EFFECT
0-9	Set Speed to Warp 0-9
)	Set Speed to Warp 10
!	Set Speed to Warp 11
@	Set Speed to Warp 12
%	Set Speed to Warp MAX
#	Set Speed to Warp HALF
>	Increase speed by warp 1
<	Decrease speed by warp 1
c	(Un)Cloak
l	Lock on object. Sets your course to that object. If it is a planet or a starbase, you automatically dock there once you arrive.
t	Fire torpedo
f	Fire plasma (requires 2 kills and refit)
x	Beam down your own armies
z	Beam up your own armies (planet must have > 4)

KEY	EFFECT
p	Fire phasers
u	Tractor Beam, pulls target toward you.
y	Pressor Beam, pushes target away from you
s	Raise / Lower shields
i	Get information on the player or planet nearest your mouse cursor.
D	Detonate your own torpedo's cause less damage than a full hit, but more damage than a miss
d	Detonate all enemy torpedo's in a fixed range around your ship. All torpedo's add some damage to you, but less depending on distance
k	Set course, based on current mouse position
*	Send in practice robot, or transwarp to starbase (when locked onto one)
b	Bomb, must be in orbit of planet to bomb
o	Orbit planet
E	Send distress call
F	Send carried armies report
e	Toggle docking permissions (when flying starbase)
r	Refit to different ship (orbiting home planet)
R	Shutdown for repairs
Q	Quit
h	Help (toggle)
\	Take screenshot
C	Coup home planet
W	Select the nearest planet for (h)ostile or (p)eace negotiations

Sending personal messages

There are several ways to select a destination for the message you wish to send. You can:

- Select a message in the message list, you wish to reply to
- Select a player in the player list, you wish to send a message
- Enter a special key combination, this is the key “m” followed by:

KEY	DESTINATION
0-9, a-f	Message is sent to the player with that number, if the player exists.
t	Send a message to your own team
A	Send a message to all players
F	Send a message to the Federation players
R	Send a message to the Romulan players
K	Send a message to the Klingon players
O	Send a message to the Orion players

Then type your message in the message dialogue and press enter to send it. (Or move your mouse in the game area)

Sending macro messages



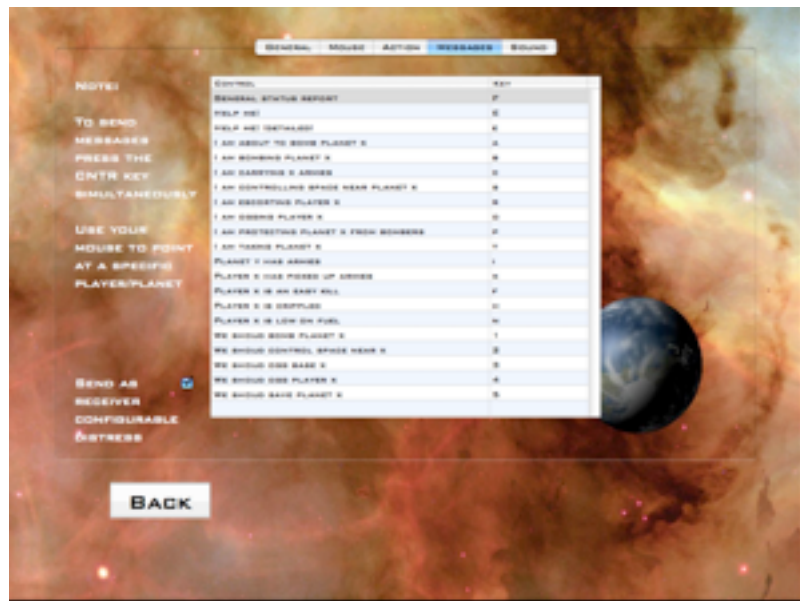
By pressing a key while keeping the control button pressed, you will send a macro **to your TEAM**. Macro's are extremely usefull to send a lot of information while typing as little as possible. Currently MacTrek supports the following macros:

KEY	MACRO
E	Help, with your damage
F	Sends an armies carrying report stating how many armies you are carrying and the name of the planet your mouse is hovering above (suggests you want to take the armies there)
e	Detailed help message
a	About to bomb planet x (planet below your mouse)
b	I am bombing planet x (planet below your mouse)
c	I am carrying x armies
s	I am controlling space near (you get the drill :-)
r	I am escorting player x (player near your mouse)
o	I am offing player x (...guess)
p	I am protecting planet x from bombers
t	I am taking planet x
i	Planet x has new armies
x	Player x has picked up armies
f	Player x is an easy kill (free beer)

KEY	MACRO
h	Player x is hurt
n	Player x is low on fuel
1	We should bomb planet x
2	We should control space near planet x
3	We should ogg base x
4	We should ogg player x
5	We should save planet x

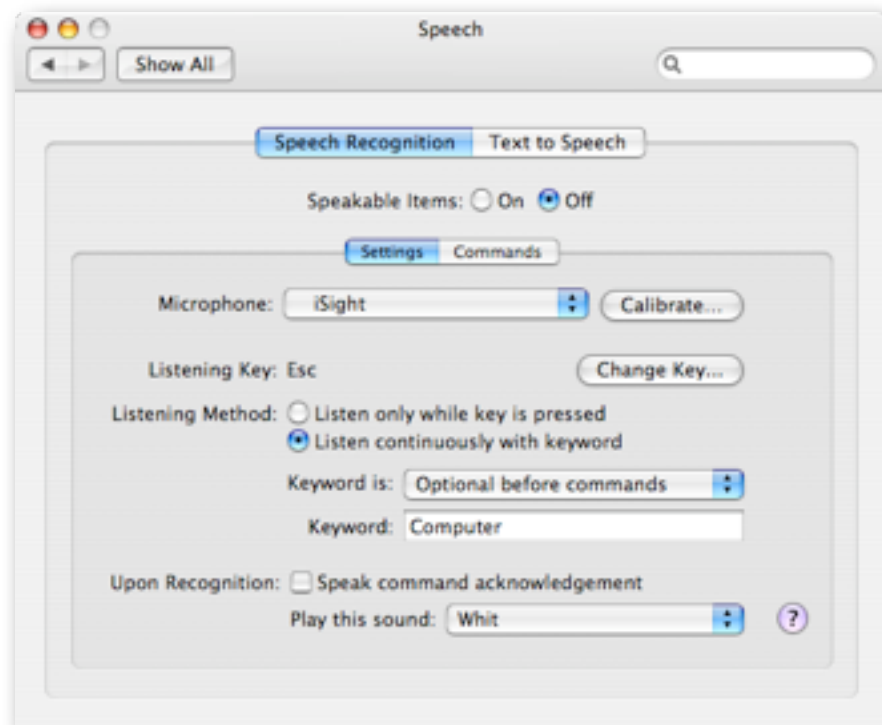
You can send the messages either as normal text (macros) or as receiver configurable distress, this has no impact on your client but allows others to re-format your message to their liking. (e.g. localization)

Sound settings



SETTING	EFFECT
Effects volume	Controls the volume of explosions and other sound effects
Voice over	Have the computer read out incoming status messages to you, so you have your eyes on the game view.
Voice commands	Allow to give vocal commands to your ships crew

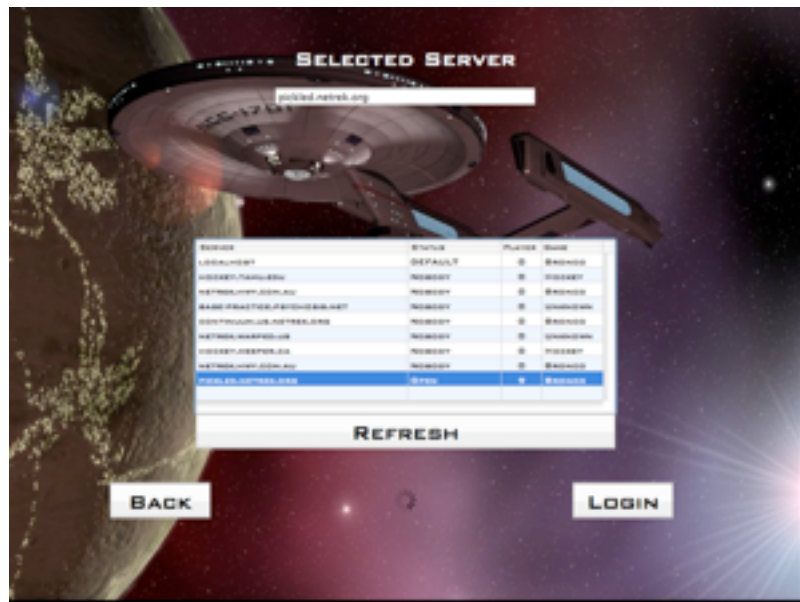
MacTrek comes with voice commands. These are based upon Apple's speech recognition technology. In order to use it, you must first enable it in "System Preferences". The settings as displayed work fine, though you may enable "Speakable Items" if you encounter problems with your accent.



Supported commands:

- Torpedo
- Plasma
- Phaser
- Course
- Shields
- Bomb
- Repair
- Lock
- Tractor
- Press (Pressor is too confusing)
- Max (Warp)
- Stop
- Cloak.

Selecting a server



Selecting a server

Available servers

The select a server screen will automatically present you with a list of servers it has found at the internet with running games. The number of players field is not updated very frequently, so you may need to try around a bit. If you have started a local server, you will find it at the top of the list. You will also find Sturgion and Hockey servers. They offer a modified game of Netrek which is not completely tested, the advised game type remains Bronco.

Alternatively you can manually enter a server name with optional port number (e.g. lucky.nl:2592) if you know where the server is running. You also connect to a local server where you can play against robots. Your friends (on the same lan) can join your game by manually entering your ip number in the connection text field.

MacTrek users in your LAN should see your computer and you should see theirs automatically since MacTrek has Rendezvous technology build in.

Note: when you press instant action in the main menu, MacTrek will select the bronco server with the most users and try to login to that one.

Login permission

If MacTrek cannot connect to a server it will say so in the selected server field on the top of the page. It can take a while to negotiate with the server. If you are permitted to login, the login button will be enabled.

RSA enabled servers

You will quickly discover that some servers have RSA encryption enabled. This means that the client (MacTrek) are expected to respond to a crypto request (with the proper response) within a certain timeframe. MacTrek **supports** RSA, but the corresponding key may not be installed at the server.

As a result, you may be kicked out of a server after some seconds. If you enabled voice over, you can hear the computer tell you that you need a “spiffy, new RSA enabled client.”

Entering a game

Logging in

Logging in is exactly what it sounds like. Each server records the statistics for every player. This allows you to earn promotions if you perform better than the average player and log enough hours of netrek. (e.g for Lieutenant 2 hours and a rating of 1, DI of 2.)

When you have pressed instant action in the main menu, MacTrek will use the “guest” id here and pick the first available team.

Selecting a team

Players can belong to one of four teams: The Federation, Romulans, Klingons, and Orions. Each team flies in different ships but their characteristics are the same. The Federation occupies the lower left corner, the Romulans the upper left, Klingons are upper right and the Orions in the lower right.

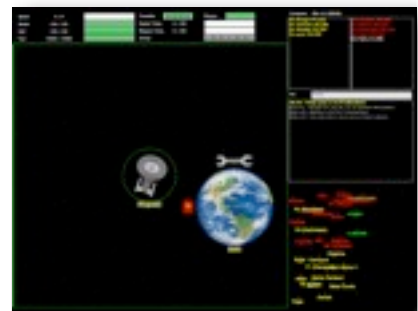
If you cannot select a team at all, either the server has reset on the end of the game, or you connected to a RSA enabled server that does not have your key.



Logging in



Selecting a team and ship

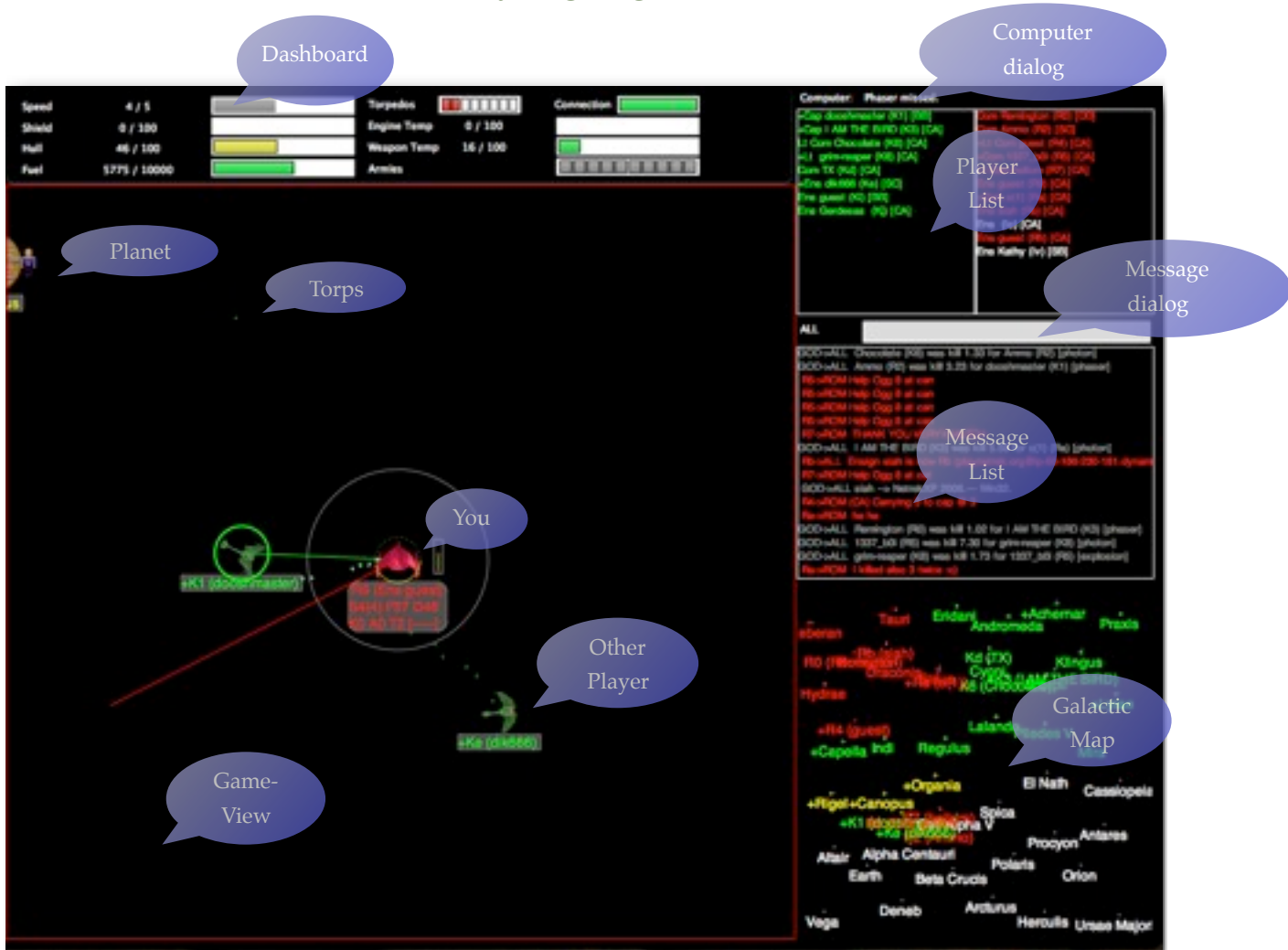


Game entered

Selecting a ship

Selecting the right ship for you depends mostly how you play and what role you play. See the introduction chapter for more details. Then click play to enter the arena.

Playing a game



The game in full action

Game view

The first thing that springs into view is called the game view. It is your main view on the action. Depicting yourself in the center of the view at all times. It will show the ships, weapons when fired and the planets.

Around your vessel you see three circles:

- Large, thin and gray This is the range in which your ECM equipment can detonate torpedos
- Medium and thick This shows the shield status (in the screenshot above gone, thus not visible)
- Small and thin This shows the hull status (in the screen shot yellow)

To the right of your vessel a fuel gauge is displayed which shows the remaining fuel for speed, torpedos and detonations.

Each planet has a long name which appears on the local window, and a three letter abbreviation which appears on the map. The color of the planet indicates its owner, which can be one of four team colors or gray for neutral.

Some planets will also have symbols near them. A person symbol means there are more than 4 armies on that planet (and hence it can be bombed if it's an enemy planet or beamed up from if its a friendly planet). A wrench symbol means that the planet is a repair planet; while in orbit around this planet you will repair damage much faster than usual. A gas can (looks like a sort of little box) means that the planet in question is a fuel planet, and you can refuel on that planet. This is important, because although you regenerate fuel automatically if you are not constantly using it, a fuel planet will fill you up much faster.

Galactic map

The galactic map is a small version of the game view. It will show all players everywhere. You can use this window to show the entire galaxy but you can also pan (by clicking **command-left-mouse button** at the requested center position) and zoom (mouse wheel) to zoom in on an area of interest.

Status dashboard



The status dashboard shows you the current levels of primary systems e.g.

- Speed (in warp)
- Shield strength
- Hull strength
- Fuel

If these drop below 60% they will color Yellow, when they drop below 30% they will turn Red. (Speed works the other way around, high warp is red)

The second part shows your secondary systems

- Torpedos left (based on flying torpedos and fuel level)
- Engine temperature
- Weapon temperature
- Connection status (based on max 50 updates per second)
- Armies on board

Armies on board can be:

- Gray, your ship has capacity but you do not have enough kills to fill this slot
- White, empty marine landing bay, waiting for armies to be beamed into
- Green, a landing bay filled with marines, eager to be dropped off

Computer dialog

From time to time the computer will need to pass some information to you, usually it is about it's inability to control more than 8 photon torpedo's at the time, but there are also more use full remarks. If voice over is enabled, you will not need to look at this dialog since the computer will read it out to you.

Player List

The player list shows who is logged in and playing. The name is preceded by the rank of the player which gives you a reasonable idea if the player is a newbie or has logged 400 hours on this server. The little "+" marker in front of the rank, means that the player has one or more kills and thus is able to carry troops.

Message List

The message list shows, as you might have guessed, messages to everybody, messages to just your team and messages to just you in them. Read messages! This is important. Netrek is a team game, messages to you or your team allow you to interact and plot the downfall of an entire galaxy.

Message dialog

This is where you type your message to be sent to another player or a team of players. See the chapter on Settings how to select a destination for your message. Then click in the message field and hammer away!

Important:

Enter will send your message but depending on your mouse position the dialogue remains focused, requiring you to move your mouse **into** the game view or galactic map in order to return key control to the game.



Charity

Why sponsor MacTrek?

MacTrek is open source. This means that it comes for free, but if you really like it and wish to show your appreciation for a fine piece of software and a zillion hours of coding, please read on, you can make a difference to a lot of people by even the smallest form of appreciation.

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Since 2002 we have run/participated in programs in:

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- Yendi, building of additional classrooms
- Kadjebi, training of computer maintenance staff, power regulation
- Jassikan, Palm Oil production training
- Techimann, Women Organization training
- Laptop project Volta Region
- Tamale, Widows and Orphans project

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Appendix A: Kia's Clue Guide

Valuable advice from Jan Sandorf, one of Europe's best players. A good read for the novice player, covering all basic situations in Netrek.

Vocabulary

This might seem unnecessary, but I'm writing this for the novice player(s) as to the experienced ones. So here's a few expressions used by players and what they mean.

Spacecontrol: This term is often used when assistance is needed near a planet, either because the enemy is preparing an assault or that your team needs help clearing the enemy planet from enemy ships.

Twink: Often used by "experienced" players to name newbie players. I try not to use it myself (we were all there once).

LPS: Last Planet Stand. The enemies last planet which should be the worst possible one defending. Far away from the enemy homeworld, and preferably not an AGRI or FUEL planet.

Scummer: A person that are mainly playing to get high stats and doesn't really care about his own team. This type of player is also known as DI-scummer.

d++: This is a very cryptic but useful way to describe that an enemy player is carrying armies. This particular case (d++) would mean that the enemy ship with the letter d has picked up 2 armies. A + indicates an army. b++++ would mean that b has picked up 4 armies. This is also used when planets "pop", TAU++ means that there is excess armies at TAU.

Pop: This is an expression used when planets create new armies. This is often used to alert your teammates that one of the enemy (or friendly) planets has armies that should be taken care of. This might mean bombing or picking up (Ex. "tau popped").

@: The '@' sign is used instead of 'at' because it's shorter to type. "tau @ 5" is one way to indicate that there is excess armies at the planet 'tau'.

DI: Means "Damage Inflicted"

Ogg(ing): When you OGG someone, it means that you try to kill a certain player by all means without caring about your own ship, it's more or less a suicide attack. This attack form is mainly used against other players that carry armies or that are potential carriers (see Ogging further down for more info).

Plock: A shorter word for Phasor Lock.

Core: The 4 planets closest to the homeworld and of course the homeworld itself.

Potential Carrier: An enemy player that has kills. Make sure to track this player to see if he picks up and then announce it to the rest of your team (see above).

The way to become a "clued" player

First, there are no shortcuts. You have to play a lot and get experience but here are a few hints that will help you on the way.

- Look at the strategic map more than 50%, this is really important and you have to look at it even when dogfighting, escorting and/or taking planets.
- Look at the playerlist every now and then, this to see which of the enemy players that are potential carriers. Keep an eye at those players with kills and keep track on them if they pick up armies, don't forget to alert your teammates.

- You have to keep an eye at the message window as well, this to see if any of your teammates has spotted a enemy carrier or if your team needs help escorting etc.
- When you died and your ship 'res' in at the homeworld, don't just rush at maxwarp to the front and then start to think about what to do. Check if there is anything important that you could do to help your team right away as you appear at the homeworld.
- Helping a friendly carrier thats in trouble in your own core. This could mean checking the enemy SC bomber to help save a pop or to simply kill him off before he can hurt your carrier.
- Check if there is a friendly ship thats leaving the front to move back to pickup. Move in his direction to be able to help him if he's beeing ogged, if there is a ogger you might be able to pick up an easy kill. Anyway, since he's leaving the front your presence there will probably be needed, controlling etc.

Dogfighting

Maneuvering: When dogfighting you need to keep changing your speed, this will make it much harder for enemy ships to calculate where to aim at. Most of the time I fly at warp 2 dodging and turning all the time, this combined with sudden rushes and speed changes works really well for me. Remember to 'det' torps that you cant dodge, better to 'det' them than letting your shield/hull take a real beating. I also use 'det' to create "holes" in torpedostreams, which I can dodge through.

Fire: I Never fire 8 torps salvoes unless I'm 100% sure to hit something, it costs a lot of fuel and you cant afford running out of fuel when that enemy ogger might be coming at you with warp 9. I fire 3-5 torps at the time carefully aimed, use your phasor when you get within the 15-20 pts range. (Remember to use pressor if you get too close to him, explosions hurt)

Damage Control: This is something that's very hard to do, especially if you're a new player. Since a ship repairs BOTH its hull and shield at the same time it's really beneficial to be able to take some damage in the hull and the rests on the shield. The really hard thing is to figure out HOW much damage you can allow on the hull since damage to your hull lowers your maxwarp as well. Of course damage control in the smaller ships, DD, SC is questionable, I've never done it in any other ships than the CA, BB and SB.

Hints: Remember to count the hits inflicted on the opponent. Lets say I fly a cruiser (CA) and I dogfight an enemy cruiser, I hit him with 3 torps (each makes 40 points of damage) + a 20 points phasor I know that he's almost done for (140 points of damage from his total of 200), another 60 points and he buys the farm.

At all times remember to conserve fuel, fuel is more vital that most people realize. A ship without fuel is a sitting duck (more or less). Remember to keep your shields down as much as you can, it saves alot of fuel.

The most important thing tho is keeping one eye at the strategic map, this to avoid enemy oggers and most important to spot cloaked enemy planettakers coming your way.

Escorting

Position: This is a little different from case to case. If your team is about to take a frontline planet then try to clear that planet from enemies. If there are no enemies around move up a bit and stay between the closest enemy and the planet. Then you have ground to fall back on and buttorp any onrushing defenders.

Core takes is a little different tho, then you should wait for your taker to get ready and together with him and the other escorts move in and push them off the planet. Never rush off to the planet ahead of all the others that will only alert enemy defenders and you will find your- self outnumbered and killed (to no use). Stay between the enemy and your planettaker and remember to 'det' torpedoes heading towards him.

Of course all the above is depending on the situation

When escorting a taker be aggressive (No don't run at warp 9 towards the enemys buttorps) put pressure on the defenders by shooting torps and phasors. If you're outnumbering the defenders mutualing with them is a good option, but remember the longer it takes to clear a planet the more defenders will arrive.

Hints: After your team has taken the planet it will be very wounerable so you and your team has to defend it right after the take. This applies especially to AGRI planets wich will "pop" very fast, stay close and protect the planet it pays off.

Planet defense

Position: When defending planets the most important thing is to keep track of the enemy planettakers, use the strategic map to keep an eye at cloakers. When you notice an assault against a planet in your sector alert your teammates (use team message line) and move to the planet fast. If the enemy planettaker has escortships with him you have be very good at delaying them so your teammates can get there in time. I prefer to ignore the escort (if I have 1:2+ in odds) and just cloak and go for the carrier. I have found that this slows the planettaker more than if I would have stayed at the planet and tried to dogfight his escort(s).

If alone at a planet thats under assault by multiple enemies, DISTRESS and then DELAY the take, Stay alive, lob torps, phasor, look threatening, the important thing is to get more defenders there in time to stop the take, its unessential who gets the carrier in the end as long as you stop their take.

Hints: When I notice a lonely cloak coming my way I wait with firing at him. I wait for him to make his move towards the planet (remember he's the one running out of fuel) and then I blast him into pieces with phaser and torps.

If you fire like a madman at him wasting all your fuel he will dodge and when he sees that you're out of fuel he goes in and takes/bombs the planet and you cant do shit about it. Remember to keep a cool head, with this tactic I have nailed lots and lots of carriers.

Another thing, when you have fired your torps at the cloaked carrier or over the planet and you score no hits, 'det' your own torps and fire again. Don't let him get that second or two until you can fire again, this might be the thing that saves your planet or not.

Planet taking

Planets: When taking planets you have to choose the most strategic planet to take for your team. The enemy AGRI planets are prime targets since they can produce more armies than an ordinary planet. Other important planets are of course fuel and repair planets in the frontline. Be flexible, if you see that the planet of your choice is too heavily guarded switch to an easier target and get it before they knew what happened.

Ships: Depending a little on what kind of planet you about to take you should chose the ship thats most qualified for the mission. I tend to use the CA when taking frontline planets and the 3rd space planets. When going into their core I usually use the DD bacause its good maneuverability and feint and dodge my way though while remaining cloaked. For LPS situations the AS ship is probably the best choice. Because of its extra hull you will get that extra half a second to beam down that extra army and that really counts. The AS also has a great cloaking ability. Scouts are perfect in the engame as well, use the SC to sneak in and drop armies on whatever planets the enemy has left. That will weaken their defenses and give them less armies to use for retaking planets.

When carrying in the CA I help my escorts clear the planet instead of just cloaking, this really speeds up the take and you will be able to take the planet before more defenders can arrive. Learn to dogfight well and use it while you're carrying.

Oggers: As soon as you have 2+ kills you are a hot target for enemy oggers, and they'll be coming at you until you're dead. This is when the strategic map comes in real handy, keep an eye at cloakers coming your way and as always alert

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your teammates that you are carrying and might need help. If there is only 1 cloaker coming at you at the time you will probably manage all by your self, the trick is to NEVER run out of fuel. Basically I keep to 2 simple strategies:

1. As I see the cloaker coming my way I remain at speed 3-4 moving slowly away from him, when he gets real close (just about to uncloak) I press maxwarp, turn at a 90 degree angle from him, and use pressorbeam at him (if he has uncloaked) and buttorp him. Try to cripple him instead of just killing him, if you cripple him he will sit damaged in your core and just watch you go for the take without being able to do anything. Remember to 'det' his torps if it looks as if they're going to hit.

2. Just cloak and run at a 90 degree angle away from him. The best thing is if you can sneak by him and charge against a planet and take it before he gets there.

Hints: Remember to cloak when you go in to take the planet, if you're not enemy pressors and tractors will pull you out of orbit and they'll shoot you and your valuable armies into atoms.

If you are moving in towards an enemy planet and an enemy comes aching towards you firing all that he's got, slow down let him waste all his fuel at a target he believes is orbiting the planet. When his torps have passed move in and take the planet.

If I see a torpstream coming right at me while I'm beaming down I quickly raise my shield, 'det' them and continue beaming down, this might give me that extra second I need to finish the planettake instead of getting blasted right away.

There is a neat trick that might work from time to time. If I'm moving in towards a planet cloaked and the defender starts to fire torps at the planet (hoping for the lucky shot) I 'det' the single torp and he usually thinks that was a hit on me and fires all he's got at that spot, then move in and get the planet before he understands that he's been had.

I mentioned earlier that speed is important, always make sure that you know where you are going even BEFORE you have picked up armies. When I'm moving back to pick up armies at our rear planets I check the enemy planets to see how many armies they have defending. This really saves a lot of time when you know where you are going at same moment as when you have picked up.

When the enemies are getting down to less than 6 planets and you see that your team has a advantage, its time to choose the enemies LPS. This can of course be determined earlier but its hard sometimes to take exactly those planets that you want. The LPS should not be the enemy homeworld or a fuel planet if it can be avoided, the further away from the homeworld the better. Why? you might ask. First, all killed enemy ships start close to the homeworld which makes it very hard to get, second don't leave them a fuel planet where they can refuel their empty tanks.

When an enemy carrier has taken a planet and you arrive 2 seconds too late to do anything about it (and you're carrying yourself) there is a trick that might work. Fly at maxwarp against the enemy planettaker as if you are about to ogg him, cloak when you get into the same screen as him. This might scare him away from the planet and then you quickly reduce your speed move in and take the planet before he knows that he's been cheated.

Ogging

Ship: Choosing the ship is a little depending on the target, I mostly use the cruiser (CA) because it's torps and phasor are more powerful than the destroyer (DD). SCs are really neat to ogg with too but then you have to use a little different tactic.

Timing: Picking the time and opportunity is 50% of the ogg. Usually the best time is when the person has his mind at other things, like dogfighting or picking up armies.

Conducting (with CA): If there is no real hurry I pick my target and move to a spot that isn't too far away from him, then I wait for the right time to move in. Then I cloak and move in at him at maxwarp, if I see that he hasn't spotted me (he's not fleeing) I keep at maxwarp just until before I uncloak. Then when uncloaking I get him with my tractorbeam and hit him with the phasor and torps. Remember to 'det' his incoming torps this will get you the last inch all the way in on him, this to get him in your explosion if you haven't got him already.

If he sees me while I'm moving in and he starts moving away I slow to warp 4-5, this to make me able to dodge his torps. I then chase him down while switching between maxwarp and warp 4-5. Keep a good look at your fuel, you have to have about 2000 left to be able to finish the ogg.

Conducting (with SC): The SC ogger has to be more patient, the best time to ogg in a SC is when the taker is just about to start orbiting. Hang around the planet he's about to take (Stay cloaked and circle at low-medium speed) and when he moves in to take your rush in and kill him. If you're a bit lucky the escorts will blow you up on him as well

Another good opportunity to SC ogg a taker is when your defenders have scared him off from a take and are chasing him back towards his core your approach him from the opposite direction as his pursuers and you will be able to catch him a bit off guard or without fuel.

Hints: Sometimes I chose just to neutralize a player that I know is carrying by just keeping track of him and whenever he moves to the left to find a way through I move to the left flank cutting him off etc etc. Sooner or later he gets careless and might gamble and go for a planet anyway and then he's all yours.

Base ogging

When ogging a starbase you will probably need the whole team or a large part of it. The key to a successful baseogg is coordination and determination.

Coordination: The best thing is to use the message line and call for a baseogg, like: "get in position for a baseogg sync with Rf". Then it's the player Rf that calls the ogg, when he cloakes and moves in so does all the others. It's really important that the player that is leading the ogg waits for all to get in position, if the timing is really good and enough oggers get through the base will probably be at warp 1 or maybe even dead.

Conducting: I use 2 different tactics when ogging a base, either I conduct an ordinary ogg, uncloak, tractor, phasor and torps or I try to get all the way into the base (ontop of him) and then uncloak. By doing the latter you will surely get him in your full explosion (100 pts of damage) plus any torps/phasors you can fire before you die.

Repeat the coordination and conducting phases until the base is dead. If the defence around the base gets too thick there might be a good idea to abort the ogg, there is no point in giving away kills unless you can get through to the base.

Hints: There is always a good idea if your team combine the ogg with 1 or 2 plinkers, this to keep the base attention on other things than the strategic map.

Do not lock on to the base when you're about to ogg, your ship will automagically slow down as to dock (even tho it's an enemy ship) and you might not get all the way into the base because of that.

Base defense

As a basedefender you have to be real observant for cloaked enemy ships and be quite handy with the phasor and you have to be willing to sacrifice yourself for the base.

Positioning: I want my defender to be at my side or at one of the sides just infront of me. This will enable me to use the pressor/ tractor on him so I can dodge torps and he can help me 'det' a few torps now and then. The worst thing is people hiding behind the base thinking its some kind of undestructable fortress.

Ships: When playing as a basedefender you have to be careful with your fuel consumption, I try to fly the cruiser (CA) or destroyer (DD) because they have a better fuel recoverance rating than a battleship (BB).

Hints: If the base is really hurt you can help him by towing him towards a homeplanet so he can repair.

If you stay real close to the base you can help him 'det' enemy torps when he's getting ogged, the hard thing with this is to avoid blowing up on your base.

As soon as you get the chance refuel at the base (if you need it) and always try to have full fueltanks before each new oggwave.

Try to have a few players breaking up the wave a bit ahead of the base, instead of just sitting at the base and wait for them, a combination of both seem to work best.

Bombing

Tactics: I prefer to look at bombing as 'initial' and 'non-initial'. The initial bombing is the first stage in a new game when your side has to bomb all the enemy planets, the planets will then contain around 30 enemy armies or so (this might vary from server to server). The non-initial bombing is the continous bombing that occurs during a game, where the purpose is to keep the enemy planets clean from armies.

Ship: This is the part when it comes to personal preferences and of course the time in the game. In the initial phase of the game I play the assaultship (AS) mostly because of its excellent bombing capability, but also because when the enemy planets have close to 30 armies it hurts to be orbiting.

After all the enemy planets have been bombed its time to switch to the non-initial bombing tactic, this is when your team has 1 person dedicated as a lone bomber keeping the enemy short of armies. At this stage I fly the scoutship (SC), its great speed makes it perfect for the job. When playing the SC bomber role try to keep away from the enemy ships, your role is to bomb NOT to give away kills to the other team.

Hints: When moving in to bomb a planet cloak, the reason for this is the same as when taking planets, you don't want enemy ships to pull you out of orbit when you are bombing.

When playing the scout-bomber be smart and use the scouts great speed and maneuverability to feint your opponents. Pretend to be heading for one planet (you are cloaked of course) and then when the defenders come racing, switch direction and move to the alternative target and bomb it. Then when they come at you again you do the same thing again, staying out of the enemies tractor range is critical.

The same sneak tactics apply to bombing as those to planettaking, cloak and feint your opponents. Be smart don't give away kills just to bomb that extra army unless the other team is real short of armies. If they have no armies they can have all the kills in the world.

Note) When defending armies at your own rear planets you have to take care of that enemy scout, either by just controlling the space and not letting him bomb or by ogging him. The ogging part is pretty easy, the key is to get him in your tractor beam. As soon you get him in the tractor start phasoring him to death, don't waste fuel on torps because they will surely miss. Remember to 'det' his torps when you are ogging him.

Basing

When playing a starbase you can be an asset to your team or a pain in the ass. The worst thing is a base that needs 3+ permanent defenders all the time and still needs to go and repair every now and then, all you do then is occupy a slot in your team and are more a burden to the team than an asset. A good baseplayer should be able to manage with 1 defender, unless he's being heavily ogged.

Positioning: I have seen everything from bases "idling" in the core to real frontline bases, what is best can probably be debated for years. I think the base helps the team better if he plays an aggressive role, I try to place myself at the middle planet of our frontline together with 1 defender. There I can help my team with refueling, refitting and spacecontrol.

Plinkage: This can be really annoying for a base, this is when your defender(s) are really useful. Use your tractor and pressor beam on your defending ships (of course you can use enemy ships as well), this combined with your warp 2 will really help you in dodging those torps.

If you are under heavy plinkage (2 or more ships) it hurts to be 'detting' all the incoming torps, sometimes it might be better to suck a few torps rather than to 'det' them all. Try to 'det' the first torps at maximum range, this might open up a hole in the torpstream and then dodge through, all this depends on the situation.

Don't get too engrossed in dodging plinkers so that you miss the 4 cloaked oggers coming in at you, keep a good look at the strategic map.

Oggers: When playing starbase you have to keep a good look at the other team to see if they are preparing for a baseogg, and if so call upon your defenders before it's too late. There are some signs that might help you in predicting when a baseogg is imminent.

- If the enemy team are killflat (or almost).
- You notice that the enemy SC has stopped bombing and are sorta "waiting" instead of bombing.
- There are enemy ships spread out in a nice semi-circle around you.
- When a large part of the enemy team are cloaking at the same time near you (at this time it's probably too late).

First when you are under heavy ogging the most important thing is to NEVER get wtemped, if you do get wtemped you have probably used the phasor and plasma too frequently. I try not to fire the phasor unless I'm pretty sure that I'll hit something.

I try to keep a neverending stream of torps in the air all the time this to help my defenders to find the cloaked vessel before he gets too close. This combined with a few plasmas is usually enough to get 2-3 of the oggers out of business.

Then when the first enemy ship uncloaks I hit him with the pressor, this will give me higher speed and make it harder for the others to hit me with their torps, and of course I don't want his explosion all over me.

Now the hard part begins, try not to panic and phasor at the closest enemy and detting all that is fired at you, keep firing at the other nearby cloaks while dodging or detting the pressured enemy torps (I never said basing was easy). All of the above depends on how synchronized the oggers are, if they are really synced you will take a serious beating no

matter how good you are. The important thing is to survive the first wave so that you can get more defenders there to defend you. Remember to send distress to your team so that they can see your status if you're hurt.

Hints: Even tho the starbase is the most powerful ship and can take a real beating, be cautious and dont go too deep into enemy space unless you have defenders at your side. It's been so many times that I've seen a good base get plinked to death in enemy space after his defenders got blown away. Ie know your limits.

Help damaged teammates by tractoring them out of danger and by letting them repair at you. Dont do this unless you're sure that you wont get him blown up all over you.

Don't steal kills from the other players of your team, you can't do anything with your kills so let the other players get the kill instead.

General questions

Q) When playing a LPS-game, Why shouldn't I bomb AGRI planets close to my own LPS/homeworld? (this is within reason, if the planet has 8+ armies bomb it down to somewhere around 5-7 armies)

A) Because when your last planet pops you will get 1-3 armies, then you should bomb the closest planets with a assaultship (AS) and try to get them down to 1-3 armies defending, then you can take the planet even tho you had so few armies. If you bomb continously the AGRI planets will pop back up to 4 armies in no time.

Note) This goes for the offensive side as well, pick up armies of the planets closest to your enemies, this to prevent them from bombing the planet to less that 4 armies. In this case it doesnt matter if you get killed while carrying.

Q) How do I know if a player with kills have picked up armies or not?

A) First, if you look at the strategic map and see a player with kills orbiting one of his own planets with armies its a pretty sure sign that he has picked up armies. The best way tho is to keep track of those players that has kills and check the armies at planet he's moving to with 'i' then you see if he's picking up or not. Ships that pickup armies also tend to blink at the galactic when they pickup.

Note) Set your galactic and tactical map to show resources.

Q) how do I get phasor lock on cloaked players?

A) The key is the strategic map, set the galatic updates to 'frequently' then when you get the update (the ships move on the galactic) you phasor at the cloaker.

I used to phasor at the galactic screen but I had trouble moving the cursor back to the tactical screen and maintain the lock. So now I watch the galactic for the update and phasor at the tactical and that seem to work really well now.

Q) Why should i help anyone else in my team, it doesnt give me any DI?

A) The team that plays together and help eachother will win in the end. If you help other players you will soon find that they will come to your aid when you need it. DI-scummers will get less and less help and in the end he wont get any help at all.

Note) I have seen teams with several high ranked players play as individuals and lose BIG. Keep your team together and use the team message-line to communicate and you will win.

Summary

Well I hope this has helped you in some way to improve your netrek playing. It's not sure that all this will work for you but I think what I have mentioned in this document covers the basics and holds some advanced hints/help as well.

-KIA (jsf@solace.mh.se)

Don't argue with a fool because he might be doing the same thing!

Appendix B: License

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