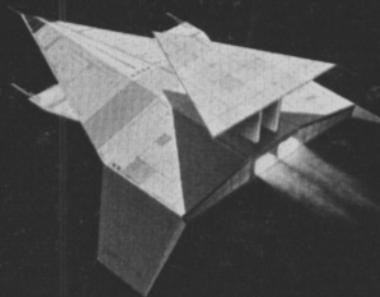


The challenge  
was issued eons ago,  
from light-years away.

And only you can meet it.

# STARCROSS™



**INFOCOM™**

SOFTWARE FOR YOUR

**COMMODORE 64/128**

(1541 DISK)

ISI-C01

INTERACTIVE FICTION

SCIENCE FICTION

EXPERT LEVEL

TAKE THEIR WORDS FOR IT!

"Fantastic! Other 'adventures' pale by comparison."  
Dennis, 24, Programmer  
Citrus Heights, California

"All the ingredients of a good Robert A. Heinlein sci-fi novel are here:  
the wildcat prospector (that's you), the sassy ship computer,  
and a lucky find that could be too hot to handle...  
it is a great game in which to lose yourself...."  
PC WORLD magazine

"I really enjoy the humorous aspects and the great puzzles."  
Andrew, 14  
Casselberry, Florida

"I saw this at a university professor's house and couldn't wait to get it."  
Ed, 40, Professor  
Hays, Kansas

"Infocom can't be beat. For richness of description,  
unfolding of storyline, sharpness of wit, and challenge of puzzles,  
Infocom has no equal in the software business."  
CREATIVE COMPUTING magazine

"Great, as usual for Infocom."  
Cherie, 26, APL Programmer  
Forest Hills, New York

"A dream come true."  
Rich, 16  
Pierre, South Dakota

"STARCROSS requires you to be a scientist, an engineer,  
an astronaut, an explorer, a diplomat.  
It expects you to have the judgment to know when to shoot a gun  
and the wisdom to know when not to....  
It is a sheer pleasure to play."  
SOFTLINE magazine

LOG OF THE M.C.S.  
**STARCROSS™**

Registered out of Ceres  
Registration 47291AA-4X

Constructed in 2178. Luna City Docks

**M.C.S. STARCROSS      02-28-2186**

First entry in the new log! Finally got the loans to finance the purchasing of my own mining ship. They were a little reluctant about it at first, what with me never having actually found a black hole. That is, never having found one that didn't already belong to someone else, to put the best light on it. I think the terms were a little steep: after all, I'll pay them back. They didn't have to reserve the right to grow a clone to work for them

for "20 years and a day." Bankers are so conservative. I suppose that's to be expected from computers. I'm not prejudiced; some of my best friends are programmed.

Once I got a loan, I took possession of the STARCROSS. A sweet little ship. Only eight years old, been on only three previous mining trips. The guy at Wheat City Used Transportation said the previous owner was a nice little old lady who retired after her last trip she found a 1.5 gigawatt black hole out near Saturn, of all places! I knew then it was a lucky ship.

**M.C.S. STARCROSS**      **03-04-2186**

Not too much difficulty getting the ship moved to Ceres Spaceport. Of course, the hauler didn't show up on time, but that's what you'd expect.

The ship is well equipped for the money. I kept most of the program modules in the ship's computer and updated only a few of them. I got the inertial guidance overhauled and checked out the mass detector myself. I wish I could afford the I/O options to have a fully integrated system. Blast off tomorrow!

**M.C.S. STARCROSS**      **03-05-2186**

Got underway a little late, due to a problem in the fuel tanks. I spent the time stocking up on new entertainment tapes--some really nice ones, too, but kind of expensive. So much time prospecting is spent waiting for something to happen.

**M.C.S. STARCROSS**      **03-28-2186**

Underway less than four weeks and I'm about to go crazy! First, the entertainment tapes were mislabelled. It's all highbrow stuff like operas and lectures. *Leather Goddesses of Phobos* was really something about the history of the Terran Union. What a rip-off! I suppose I can always talk to the computer.

I can't stand those tapes. I'll save them for later in the voyage when I'm really desperate. I'll play games with the computer to keep amused that way.

**M.C.S. STARCROSS** **04-02-2186**

I'm tempted to dismantle the computer. First, instead of a smooth, chummy voice, it sounds like a uranium recycler that's dropped a critical mass on its grasping extensors. Well, maybe it's not that bad, but it's really surly. Insubordinate, too. I tried playing chess with it, but it was too good and made lots of nasty comments about my pawn structure. So I told it to play on an easier level, and it refused! It said it was boring enough playing a human without giving away the game.

**M.C.S. STARCROSS**                      **04-15-2186**

Possible black hole today! The mass detector went off. The alarm is really loud and practically sent me through the bulkhead. Even the computer complained about it, but you can't turn it down. Anyway, it looks like a big mass: at a good area, too near the trailing Trojan point of Jupiter. Hasn't been prospected out yet, and there's always something new there thanks to Jupe's big mass.  
Off we go!

**M.C.S. STARCROSS**                      **04-16-2186**

Turns out it was just a nickel-iron asteroid. It was pretty big one, but with Asian Steel mining at full capacity, there's no room for the little guy. Their margin is tiny per ton, and they can bring back really big chunks.  
In fact, when I got closer to the asteroid, I discovered it had an Asian Steel transponder on it already. The computer said it knew it was nickel-iron all along, but I think it's just putting on airs.

**M.C.S. STARCROSS**                      **05-12-2186**

Another false alarm. This one was nickel-iron, too.

**M.C.S. STARCROSS**                      **05-23-2186**

Finally beat the computer at chess!  
A really neat combination, too. What a poor sport! It says I cheated and won't talk to me anymore.

**M.C.S. STARCROSS**

**05-29-2186**

Computer still not talking to me, beyond accepting routine ship commands. Even then it sounds particularly sullen. In the meantime, I've invented 11 new forms of five-suit solitaire. Unfortunately, I haven't won any of them yet.

**M.C.S. STARCROSS 05-30-2186**

Another asteroid. This one is mostly uranium. Gives a big blip on the mass detector, it's so heavy. Probably ought to mark it for removal. The Patrol will be pleased, even if the reward isn't commensurate. I could try smuggling it to the Ganymedean Insurgents, but the penalty for being caught with unlicensed uranium is 20 years on an organ farm. I'd prefer to have my original kidneys until they wear out, thank you.

**M.C.S. STARCROSS 06-11-2186**

A micro-meteorite pierced the hull today! It was pretty exciting, but I fixed it like a pro. I had to put on my suit, get out the patch kit and patch the bulkhead. The hole was almost big enough to put my finger in! The patch looks like a big wad of chewing gum, but it gets really hard. Happy to report that after I repressurized, the computer started talking to me again. Mostly Insults, but better than nothing.

**M.C.S. STARCROSS**

**06-23-2186**

I found a black hole for real today!

Unfortunately, someone else's transponder started up about two hours ago, and now he's warning me off in no uncertain terms.

That does it. I'm going to try something really different. Too many prospectors around here. Nobody prospects in the inner system anymore, but I will, and my luck's going to change!

In toward Mars!

# Instruction Manual for STARCROSS

The year is 2186. Humanity has established colonies on the moon, Mars, and several of the larger asteroids. Earth's sky is dotted with space habitats, and the spaceways are always busy. As usual, there is the urgent need for energy to power this advanced civilization; one of the primary sources of that energy is quantum black holes.

In STARCROSS, you are a miner of black holes, scouring the asteroid belt in your one-man survey ship. Finding and harnessing a single black hole can make a person's fortune. It's a lonely business, fraught with the known and unknown hazards of space. You've equipped your ship, the M.C.S. STARCROSS, with the best gear you could afford. You've put everything into this venture, and though you've tried before, you somehow sense that this time will be different.

The ship's computer handles the functions of navigation and routine maintenance. You watch the sophisticated mass detector as it unceasingly scans the vicinity for uncharted masses. To assuage the tedium of your long trip, you browse through the compact tape library, a compendium of human knowledge and culture. But the drone of the ship gradually lulls you into a deep sleep.

As you sleep, you dream of the riches which would be yours if your search for a quantum black hole is successful. Little do you suspect that the alarm on your mass detector is about to jolt you out of your dream—but not to grapple with the long-sought black hole. Your quest has taken an unexpected turn, for you are destined to rendezvous with a gargantuan alien spaceship from the outer fringes of the galaxy.

If you're experienced with interactive fiction, you may not feel like reading the entire manual right away. However, you should at least read the appendix of recognized verbs (page 19).

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## An Overview

Interactive fiction is a story in which *you* are the main character. Your own thinking and imagination determine the actions of that character and guide the story from start to finish.

Each work of Infocom's interactive fiction, such as STARCROSS, presents you with a series of locations, items, characters and events. You can interact with these in a variety of ways.

To move from place to place, type the direction you want to go. When you begin your adventure, it's a good idea to become familiar with your surroundings by exploring every location and reading each description carefully. (You may notice that STARCROSS occasionally refers to a location as a "room," even if you are outdoors.) As you explore the alien ship, you should make a map of the geography.

An important element of interactive fiction is puzzle-solving. You should think of a locked door or a ferocious beast not as a permanent obstacle, but merely as a puzzle to be tackled. Solving puzzles will frequently involve bringing a certain item with you and then using it in the proper way.

In STARCROSS, time passes only in response to your input. You might imagine a clock that ticks once for each sentence you type, and the story progresses only at each tick. Nothing happens until you type a sentence and press the RETURN (or ENTER) key, so you can plan your turns as slowly and carefully as you want.

To measure your progress, STARCROSS keeps track of your score. You'll get points for solving puzzles, acquiring treasures, performing certain actions and visiting certain locations. There's also a penalty for getting "killed."

## Tips for Novices

1. Draw a map. It should include each location, the directions connecting it to adjoining locations and any interesting objects there. (See the small sample map that goes along with the sample transcript on page 21.) The geography of the alien artifact is quite unusual, and mapping it will make things much less confusing. Note that there are six possible directions, plus IN and OUT.

2. Most objects in the story that you can pick up are important, for either achieving the goal of the story or solving one of the puzzles you'll run into along the way.

3. Save your place often. That way, if you mess up or get "killed," you won't have to start over from the beginning. See page 16 for instructions.

4. Read the story carefully. There are often clues in the descriptions of locations and objects, as well as in labels, books, signs and so on. Even strange or dangerous actions may provide clues and might prove to be fun! You can always save your position first if you want. Here's a nonsense example:

> SHOOT THE BEAST WITH THE DART GUN

The beast stops, realizes it isn't hurt, and then continues toward you.

You've just learned there is something which might stop the beast completely. Maybe the laser gun you saw earlier in the story...?

5. Unlike ordinary "adventure games" you may have played, there are many possible routes to the end of STARCROSS. Some puzzles have more than one solution; other puzzles don't need to be solved at all. Sometimes you will have to solve one puzzle in order to obtain the item(s) or information you need to solve another puzzle.

6. You may find it helpful to explore STARCROSS with another person. Different people may find different puzzles easy and can often complement each other.

7. If you really have difficulty, you can order a hint booklet and a complete map using the order form in your STARCROSS package. You don't *need* the hint booklet to enjoy the story, but it will make solving STARCROSS easier.

8. Read the sample transcript on page 21 to get a feel for how Infocom's interactive fiction works.

9. You can word a command in many different ways. For example, to get out of the bunk, you could use any of the following:

STAND

STAND UP

GET OUT OF THE BUNK

LEAVE BUNK

GET OFF THE BED

## Communicating with STARCROSS

When you explore STARCROSS, you type your sentences in plain English each time you see the prompt (>). STARCROSS usually acts as if your sentence begins "I want to . . .", although you shouldn't actually type those words. You can use words like "THE" if you want, and you can use capital letters if you want; STARCROSS doesn't care either way.

When you have finished typing a sentence, press the RETURN (or ENTER) key and STARCROSS will process your request. STARCROSS will respond, telling you whether your request is possible at this point in the story and what happened as a result.

STARCROSS recognizes your words by their first six letters, and all subsequent letters are ignored. Therefore, SPACESuit, SPACEShip and SPACESickness would all be treated as the same word by STARCROSS.

To move around, just type the desired direction: NORTH, SOUTH, EAST or WEST (or N, S, E and W). On board ships, you can use FORE (or F), AFT, PORT (or P), and STARBOARD (or SB). (N, S, E and W will also work.) UP and DOWN will work in certain places, as will IN and OUT.

STARCROSS understands many different kinds of sentences. Here are a few examples. (Note that some of these objects aren't actually useful in STARCROSS.)

WALK AFT  
DOWN  
SB  
U  
TAKE BOX  
DROP IT  
PICK UP THE SPACE SUIT  
PUT IT ON  
OPEN THE DOOR  
PUSH THE RED BUTTON  
EXAMINE THE ALIEN STATUE  
LOOK AT THE SCREEN  
LOOK UNDER THE TABLE  
LOOK INSIDE THE BROKEN CAGE  
LOOK BEHIND THE PANEL  
READ THE PLAQUE THROUGH THE MAGNIFYING  
GLASS  
KILL THE MONSTER WITH THE RAY GUN  
SHOOT THE RAY GUN AT THE MONSTER  
BREAK GLASS WITH ROCK

You can use multiple objects with certain verbs if you separate them by the word AND or by a comma. Some examples:

TAKE THE AIR TANK, PLIERS, AND UNIVERSAL TOOL  
DROP THE RAY GUN AND THE TIME MACHINE  
PUT THE RADIOACTIVE INGOT AND THE FILMSTRIP  
IN THE JAR

The word ALL refers to every visible object except those inside something else. If there was an apple on the ground and an orange inside a cabinet, TAKE ALL would take the apple but not the orange.

TAKE ALL  
TAKE ALL THE FILMSTRIPS  
TAKE ALL FROM THE FUEL CYLINDER  
GIVE ALL BUT WIRE AND JAR TO THE ROBOT  
DROP ALL EXCEPT THE TARNISHED PLAQUE

You can include several sentences on one input line if you separate them by the word THEN or by a period. (Note that each sentence will still count as a turn.) You don't need a period at the end of the input line. For example, you could type all of the following at once, before pressing the RETURN (or ENTER) key:

TAKE THE LASER.EXAMINE IT.SHOOT LOCK THEN  
OPEN DOOR.AFT

If STARCROSS doesn't understand one of the sentences in your input line, or if something unusual happens, it will ignore the rest of your input line (see "STARCROSS Complaints" on page 20).

There are only two kinds of questions that STARCROSS understands: WHAT and WHERE. Here are two examples you can try in STARCROSS:  
WHERE IS THE CHIEF?  
WHAT IS A GRUE?

You will meet other people and creatures in STARCROSS. You can "talk" to some of these beings by typing their names, then a comma, then whatever you want them to do. Here are some examples:

COMPUTER, LAND ON MARS  
COMPUTER, THETA IS 320  
DOCTOR, WAIT HERE  
COMPUTER, SET COURSE FOR CERES THEN REPORT STATUS  
ROBOT, FORE.TAKE BATTERY.PUT IT IN THE RAY GUN

Notice that in the last two examples, you are giving one person more than one command on the same input line.

You can use quotes to answer a question or say something "out loud." For example:

SAY "HELLO COMPUTER"  
ANSWER "A LASER"

STARCROSS tries to guess what you really mean when you don't give enough information. For example, if you say that you want to do something, but not what you want to do it to or with, STARCROSS will sometimes decide that there is only one possible object that you could mean. When it does so, it will tell you. For example:

>TURN OFF  
(the force field)  
The shimmering curtain around you fades and vanishes.  
or

>KILL THE ALIEN  
(with the ray gun)  
The alien dodges the blast, and you end up putting a large hole in the wall.

If your sentence is ambiguous, STARCROSS will ask what you really mean. You can answer most of these questions briefly by supplying the missing information, rather than typing the entire input again. You can do this only at the very next prompt.

Some examples:

>TIE THE SAFETY LINE  
What do you want to tie the safety line to?

>THE SPACESUIT  
The safety line is now tied to the spacesuit.

or

>CLOSE THE PANEL  
Which panel do you mean, the green panel or the blue panel?

>GREEN  
The green panel is now closed.

STARCROSS uses many words in its descriptions that it will not recognize in your sentences. For example, you might read, "The viewport reveals a staggering panorama of stars and nebulae." However, if STARCROSS doesn't recognize the words STARS or NEBULAE in your input, you can assume that the stars and nebulae are not important to your completion of the story, except to provide you with a more vivid description of where you are or what is going on. STARCROSS recognizes over 600 words, nearly all that you are likely to use in your sentences. If STARCROSS doesn't know a word you used, or any of its common synonyms, you are almost certainly trying something that is not important in the story.

## Starting and Stopping

*Starting the Story:* Now that you know what to expect in STARCROSS, it's time for you to "boot" your disk. To load STARCROSS, follow the instructions on your Reference Card in your story package.

Following the copyright notice and the release number of the story, you will see a description of the starting location.

Here's a quick exercise to help you get accustomed to interacting with STARCROSS. Try typing the following next to the prompt (>):

GET OUT OF THE BUNK

When you press the RETURN (or ENTER) key, STARCROSS will respond with:

You are on your own feet again.

The alarm on the mass detector is ringing stridently.

Now try typing:

TURN OFF THE ALARM

After you press the RETURN (or ENTER) key, STARCROSS will respond:

The alarm is on the bridge, not here.

*Saving and Restoring:* It will probably take you many days to complete STARCROSS. Using the SAVE feature, you can continue at a later time without having to start over from the beginning, just as you can place a bookmark in a book you are reading. SAVE puts a "snapshot" of your place in the story onto another disk. If you are cautious, you may want to save your place before (or after) trying something dangerous or tricky. That way, you can go back to that position later, even if you have gotten lost or "killed" since then.

To save your place in the story, type SAVE at the prompt (>), and then follow the instructions for saving and restoring on your Reference Card. *Some systems require a blank disk, initialized and formatted, for saves. Using a disk with data on it (other than STARCROSS saves) may result in the loss of that data, depending on your system.*

You can restore a saved position any time you want. To do so, type RESTORE at the prompt (>), and follow the instructions on your Reference Card. You can then continue the story from the point where you used the SAVE command. You can type LOOK for a description of where you are.

*Quitting and Restarting:* If you want to start over from the beginning of the story, type RESTART. (This is usually faster than re-booting.) Just to make sure, STARCROSS will ask if you really want to start over. If you do, type Y or YES.

If you want to stop, type QUIT. Once again, STARCROSS will ask if this is really what you want to do.

Remember when you RESTART or QUIT: If you want to be able to return to your current position, you must first do a SAVE.

## Appendix A

### Quick Reference Guide

The object of STARCROSS is to locate, enter and learn to control a giant alien spacecraft.

1. To start the story (“boot up”), see the separate Reference Card in your STARCROSS package.

2. When you see the prompt (>) on your screen, STARCROSS is waiting for your input. There are four kinds of sentences or commands that STARCROSS understands:

A. Direction commands: To move from place to place, just type the direction you want to go: PORT, STARBOARD, FORE, AFT (or NORTH, SOUTH, EAST, WEST), UP, DOWN, IN, OUT.

B. Actions: Just type whatever you want to do. Some examples: READ THE BOOK or OPEN THE DOOR or LOOK THROUGH THE VIEWPORT.

Once you're familiar with simple commands, you'll want to use more complex ones as described in “Communicating with STARCROSS” on page 14.

C. Commands given to people: To talk to characters in the story, type their name, then a comma, then what you want to say to them. For example: COMPUTER, SET COURSE TO EARTH or UNCLE FRED, GIVE ME A HAMMER.

D. Special one-word commands such as INVENTORY or DIAGNOSE. A list of these can be found in the “Important Commands” section on page 18.

3. Important! After typing your sentence or command, you must press the RETURN (or ENTER) key before STARCROSS will respond.

4. On most computers, your screen will have a special line called the status line. It tells you the name of your current location, your score and the number of turns you have taken.

5. You can pick up and carry many of the items you'll find in the story. For example, if you type TAKE THE FLASHLIGHT, you will be carrying it. Type INVENTORY to see a list of everything you are carrying.

6. When you want to stop, save your place for later, or start over, read the “Starting and Stopping” section on page 16.

7. If you have trouble, refer to the specific section of the manual for more detailed instructions.

## Appendix B Important Commands

There are a number of one-word commands which you can type instead of a sentence. You can use them over and over as needed. Some count as a turn; others do not. Type the command after the prompt (>) and press the RETURN (or ENTER) key.

**AGAIN**—STARCROSS will usually respond as if you had repeated your previous sentence. Among the cases where AGAIN will not work is if you were just talking to another character. You can abbreviate AGAIN to G.

**BRIEF**—This tells STARCROSS to give you the full description of a location only the first time you enter it. On subsequent visits, STARCROSS will tell you only the name of the location and the objects present. This is how STARCROSS will normally act, unless you tell it otherwise using the VERBOSE or SUPERBRIEF commands.

**DIAGNOSE**—STARCROSS will give you a brief medical report of your physical condition.

**INVENTORY**—STARCROSS will list what you are carrying. You can abbreviate INVENTORY to I.

**LOOK**—This tells STARCROSS to describe your location in full detail. You can abbreviate LOOK to L.

**QUIT**—This lets you stop. If you want to save your position before quitting, follow the instructions in “Starting and Stopping.” You can abbreviate QUIT to Q.

**RESTART**—This stops the story and starts over from the beginning.

**RESTORE**—This restores a story position made using the SAVE command. See “Starting and Stopping” for more details.

**SAVE**—This makes a “snapshot” of your current story position onto your storage disk. You can return to a saved position in the future using the RESTORE command. See “Starting and Stopping” for more details.

**SCORE**—STARCROSS will show your current score and the number of turns you have taken. It will also tell you your rank, which is based on your score.

**SCRIPT**—This command tells your printer to begin making a transcript of the story as you carry on your adventure. A transcript may aid your memory but is not necessary. It will work only on certain computers; read your Reference Card for details.

**SUPERBRIEF**—This commands STARCROSS to display only the name of a place you have entered, even if you have never been there before. In this mode, STARCROSS will not even mention which objects are present. Of course, you can always get a description of your location and the items there by typing LOOK. In SUPERBRIEF mode, the blank line between turns will be eliminated. This mode is meant for players who are already very familiar with the geography. Also see VERBOSE and BRIEF.

**UNSCRIPT**—This commands your printer to stop making a transcript.

**VERBOSE**—This tells STARCROSS that you want a complete description of each location and the objects in it every time you enter a location, even if you've been there before. Also see BRIEF and SUPERBRIEF.

**VERSION**—This displays the release number and the serial number of your copy of the story. Please include this information if you ever report a "bug" in STARCROSS.

**WAIT**—This will cause time in the story to pass. Normally, between turns, nothing happens in the story. You could leave your computer, take a nap and return to the story to find that nothing has changed. You can use WAIT to make time pass in the story without doing anything. For example, if you encounter an alien being, you could WAIT to see what it will do. Or, if you are in a moving vehicle, you could WAIT to see where it will go. You can abbreviate WAIT to Z.

## Appendix C Some Recognized Verbs

These are only some of the verbs that STARCROSS recognizes. There are many more. Remember that you can use a variety of prepositions with them. For example, LOOK can become LOOK INSIDE, LOOK BEHIND, LOOK UNDER, LOOK THROUGH, LOOK AT and so on.

ATTACK	FLY	PICK	STAND
BOARD	FOLLOW	POINT	STEP
BREAK	GIVE	PULL	SWIM
CANCEL	JUMP	PUSH	TAKE
CLIMB	KICK	PUT	TELL
CLOSE	KILL	RAISE	THROW
CONFIRM	KNOCK	READ	TIE
DIG	LAND	REMOVE	TOUCH
DRINK	LAUNCH	SEARCH	TURN
DROP	LEAVE	SET	UNLOCK
EAT	LOCK	SHAKE	UNTIE
ENTER	LOOK	SHOOT	WAKE
EXAMINE	LOWER	SLIDE	WALK

## Appendix D

### STARCROSS Complaints

STARCROSS will complain if you type a sentence that confuses it completely. STARCROSS will then ignore the rest of the input line. (Unusual events, such as being attacked, may also cause STARCROSS to ignore the rest of the sentences you typed, since the event may have changed your situation drastically.) Some of STARCROSS's complaints:

**I DON'T KNOW THE WORD "(your word)."** The word you typed is not in the story's vocabulary. Sometimes using a synonym or rephrasing will help. If not, STARCROSS probably doesn't know the idea you were trying to get across.

**I CAN'T USE THE WORD "(your word)" HERE.** STARCROSS knows the word you typed, but couldn't use it in that sense. Usually this is because STARCROSS knows the word as a different part of speech. For example, if you typed **PRESS THE LOWER BUTTON**, you are using **LOWER** as an adjective, but STARCROSS might know **LOWER** only as a verb, as in **LOWER THE BOOM**.

**I THINK THAT SENTENCE WAS MISSING A NOUN.** This usually means that your sentence was incomplete, such as **EAT THE BLUE**.

**I FOUND TOO MANY NOUNS IN THAT SENTENCE.** An example is **PUT THE SOUP IN THE BOWL WITH THE LADLE**, which has three noun "phrases," one more than STARCROSS can digest in a single action.

**I CAN'T FIND A VERB IN THAT SENTENCE!** Unless you are answering a question, each sentence must have a verb (or a command) in it somewhere.

**I DON'T UNDERSTAND THAT SENTENCE.** The sentence you typed may have been gibberish, such as **GIVE ANDROID WITH LASER**. Or you may have typed a reasonable sentence but used a syntax that STARCROSS does not recognize, such as **SMELL UNDER THE ROCK**. Try rephrasing the sentence.

**I BEG YOUR PARDON?** You pressed the **RETURN** (or **ENTER**) key without typing anything.

**IT'S TOO DARK HERE TO SEE.** In the story, there was not enough light to perform your action.

**I DON'T SEE WHAT YOU ARE REFERRING TO.** You used **HIM** or **IT**, but STARCROSS isn't sure what person or object you meant.

**YOU CAN'T SEE ANY "(object)" HERE!** The item you referred to was not visible. It may be somewhere else, inside a closed container, etc.

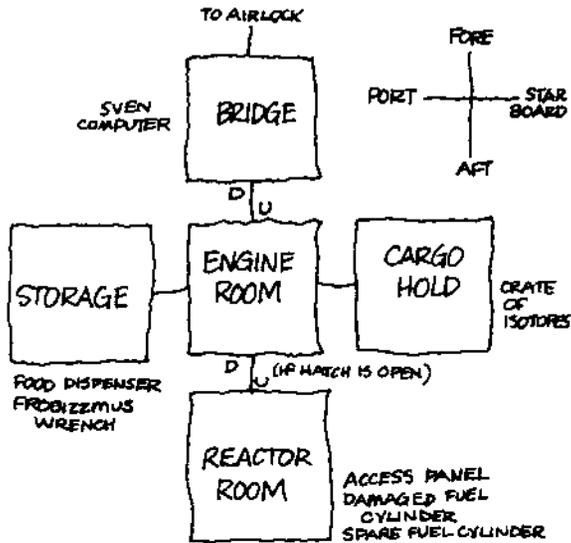
**YOU CAN'T GO THAT WAY.** There was no passage or exit in the direction you tried to move.

**I CAN'T USE MULTIPLE (IN)DIRECT OBJECTS WITH "(your verb)."** You can refer to several items at the same time only with certain verbs. Among the more useful of these verbs are **TAKE**, **DROP** and **PUT**. This restriction also applies to the use of **ALL**, as in **DROP ALL**. For example, **ATTACK** will not work with multiple objects; you couldn't say **ATTACK ALL** or **ATTACK THE ALIEN AND THE ROBOT**.

## Appendix E

### Sample Transcript and Map

This transcript is not from STARCROSS, but it does show most of the usual things you can do in the story. It contains several simple puzzles and their solutions, and it will give you a good idea of how Infocom's interactive fiction works. The player's sentences appear in capital letters after each prompt (>). The map represents the terrain in the sample transcript as you might have drawn it.



#### Engine Room

This large, cylindrical area houses the controls for the fusion drive of the ship. The drive itself lies below the deck you're standing on. A hatchway, closed, leads down toward the drive. Open doorways lie to port and starboard, and a ladder leads up through an opening in the deck above.

> PORT

Storage

This is a tiny space for storing tools and supplies. The food dispenser is set into the wall.

There is a Frobizzmus Wrench here.

> TURN ON THE FOOD DISPENSER

A tray of yummy-looking lunch food pops out of the dispenser.

> TAKE IT

The food dispenser is attached to the wall.

> TAKE THE TRAY

Taken.

> EXAMINE IT

The tray is coated with sticky tape to prevent food from floating away during periods of weightlessness.

> STARBOARD

Engine Room

> SB

Cargo Hold

This space is for storing the ship's cargo, which on this particular trip is a large crate containing radioactive isotopes.

> P

Engine Room

From the deck above you hear Sven McGillicuddy, your navigator, calling down to you.

> U

Bridge

This is the bridge of the Moonshine, a trading vessel commissioned nearly a decade ago. A ladder leads to the lower decks, and the ship's airlock is fore of here. Through the viewport you can see the surface of Luna, Earth's moon, sliding by a hundred kilometers below. Beneath the viewport is the ship's navigation computer. Sven is sitting in the navigator's couch; the captain's couch is empty. Sven holds up a print-out from the communications port. "Message from Tycho Station."

> TAKE THE PRINT-OUT. READ IT

Taken.

"Divert to Clavius Station. Cargo urgently needed there."

> SVEN, SET COURSE TO CLAVIUS STATION

"I can give you the coordinates, but you'll have to tell them to the computer yourself. You know that it's keyed only to your voice."

> EXAMINE THE COMPUTER

It is a typical navigational computer with standard features such as the ability to give it verbal commands. It was programmed by a friend of yours from California, who has since left the programming biz to buy an alfalfa farm.

> SVEN, GIVE ME THE COORDINATES

The navigator fiddles with his instruments for a moment. "Coordinates for Clavius Station are: Longitude 15 West, Latitude 58 South."

> COMPUTER, LONGITUDE IS 15 WEST

Lights blink across the front of the computer. "Okay, man," says the computer. "I've got the longitude set. Wanna lay the latitude on me?"

> COMPUTER, LATITUDE IS 58 SOUTH

Lights blink across the front of the computer. "Okay, man," says the computer. "Course set. Great bunch of coordinates. Totally. Like, awaiting confirmation, you know?"

> COMPUTER, CONFIRM

"Okay. Better buckle up, man. Burn in, like, uh, around 30 seconds."

> GET IN THE COUCH

Which couch do you mean, the navigator's couch or the captain's couch?

> CAPTAIN'S

You are now lying in the couch.

> FASEN HARNESS

I don't know the word "fasen."

> FASTEN HARNESS

You are now belted securely into the couch.

> WAIT

Time passes . . .

Suddenly you are pressed into the couch as the computer activates the ship's powerful thrusters. The burn lasts around 20 seconds, and then suddenly you are weightless again.

> INVENTORY

You are carrying:

a print-out

a tray

Sitting on the tray is

a sandwich

a tube of juice

> GIVE PRINT-OUT TO SVEN

You can't reach him from the couch.

The computer speaks. "Hey, man . . . I hate to drop something like this on you, but it looks like the reactor has, like, it's gone out. Without the next burn we'll ram into Luna in, uh . . . Gag me! Just over 3 minutes!"

> DOWN

You'll have to stand up, first.

> UNFASTEN HARNESS. STAND UP. D

Unfastened.

You are on your own feet again.

Engine Room

A red light on the controls is blinking "Reactor Malfunction—Damaged Fuel Cylinder."

> LOOK

Engine Room

This large, cylindrical area houses the controls for the fusion drive of the ship. The drive itself lies below the deck you're standing on. A hatchway, closed, leads down toward the drive. Open doorways lie to port and starboard, and a ladder leads up through an opening in the deck above. A red light on the controls is blinking "Reactor Malfunction—Damaged Fuel Cylinder."

> DOWN

The hatchway is closed.

> OPEN IT

It won't open by hand.

> EXAMINE THE HATCH

The hatchway is closed. You'll need a Frobizzmus Wrench to open it.

> P

Storage

There is a Frobizzmus Wrench here.

> TAKE  
(Frobizzmus Wrench)  
Taken.

> SB  
Engine Room  
A red light on the controls is blinking "Reactor Malfunction—Damaged Fuel Cylinder."

> OPEN THE HATCH WITH THE WRENCH  
The hatch opens. A steep gangway leads downward.

> D  
Reactor Room  
This room houses the ship's powerful fusion drive. An access panel, labelled "Fuel Cylinder Housing," is closed. There is a spare fuel cylinder here.

> OPEN THE PANEL  
Opening the panel reveals a damaged fuel cylinder. The computer's voice comes over a speaker in a ceiling. "Hate to bug you, man, but only a minute and a half until impact, and all the indicators are still red to the max."

> TAKE DAMAGED CYLINDER. PUT SPARE CYLINDER IN PANEL  
Taken. There is now a space inside the panel for another cylinder.

You're not holding the spare fuel cylinder.

> TAKE SPARE CYLINDER THEN PUT IT IN THE PANEL  
Taken.

The spare fuel cylinder is now mounted in the reactor.

> CLOSE THE PANEL  
The panel is now closed.  
"Way to go, man! Everything looks cool, now. Final burn in 30 seconds!"

> U.U.GET IN CAPTAIN'S COUCH.FASTEN HARNESS  
Engine Room  
Bridge  
You are now lying in the couch.  
You are now belted securely into the couch. The ship's thrusters burn long and hard, pressing you deeply into the cushions of the couch. After what seems like an eternity, the great weight is suddenly lifted from you, leaving you lying comfortably in the one-sixth gravity of Luna.

## Appendix F We're Never Satisfied

Here at Infocom, we take great pride in the quality of our stories. Even after they're "out the door," we're constantly improving, honing and perfecting.

Your feedback is important. No matter how much testing we do, it seems that some "bugs" never crawl into view until thousands of you begin doing all those wild and crazy things to the story. If you find a bug, or if you think a certain puzzle was too hard or too easy, or if you have some other suggestion, or if you'd just like to tell us your opinion of STARCROSS, drop us a note! We love every excuse to stop working, and a letter from you is just such an excuse!

Write to:

INFOCOM, INC.  
55 Wheeler Street  
Cambridge, MA 02138

Attn: GURTHARK

You can call the Infocom Technical Support Team to report bugs and technical problems, but *not* for hints to solve puzzles, at (617) 576-3190. If your disk develops a problem within ninety (90) days after purchase, we will replace it at no charge. Otherwise, there is a replacement fee of \$5.00 (U.S. currency). If you call to report a bug, please provide your release number, which you can find by typing VERSION. Please return your registration card if you'd like to be on our mailing list and receive our consumer newsletter, *THE NEW ZORK TIMES*.

## Appendix G Author Biography

**Dave Lebling.** Dave Lebling was born in Washington, D.C. and grew up in suburban Maryland. He attended the Massachusetts Institute of Technology and worked at MIT's Laboratory for Computer Science, where he developed an interest in computer entertainments. He was a co-author of the original mainframe ZORK.<sup>®</sup> He has co-authored ZORK I, ZORK II, ZORK III and ENCHANTER,<sup>™</sup> and written STARCROSS on his own. He is married and lives in a suburb of Boston, where his appetite for the printed word is restrained only by the volume of his house.

## Appendix H Warranty and Copyright Information

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**THERE IS SOMETHING OUT THERE.**  
You're a deep-space prospector aboard the M.C.S. Starcross, a one-person vessel outfitted for the discovery and mining of black holes. You've invested all you have and then some into a search for a dream, a dream you hold in common with every miner since the first human who panned for gold—the dream of the really big strike. And your patience and persistence are about to be paid back in aces. For in just a few moments, you're going to discover the biggest find of all time—a titanic starship from the far edge of the Galaxy. Or perhaps ...

**SOMETHING—OR SOMEONE—  
HAS JUST FOUND YOU.**

An adventure beyond any in human experience is unfolding. You must gain entry to the extraordinary spacecraft and encounter its inhabitants—a bizarre collection of life forms from every corner of the Milky Way. You must acquire what help you can from them and fend off whatever harm they send your way. But most of all, you must exert every ounce of your courage, cunning and skills to unravel the mystery the great ship poses and meet the incredible challenge it bears. And your very life is riding on your success or failure, because ...

**SOMETHING IS WATCHING  
YOUR EVERY MOVE.**

The Table of Contents for the manual is on page 11. Take a look at it to determine what you should read before you start the story.

# M. C. S. STARCROSS

MASS DETECTOR OUTPUT

TIME - 2186 : 104 : 58923

VALID UNTIL - 2186 : 104 : 59287

## Legend

R = Range

$\Theta$  = Theta

$\Phi$  = Phi

Keep Space Beautiful



Use Your Trash Atomizer

## UNCHARTED MASS COORDINATES

Name	R	$\Theta$	$\Phi$
UM08	150	: 110	: 017°
UM12	100	: 345	: 107°
UM24	100	: 285	: 087°
UM28	250	: 45	: 178°
UM31	150	: 105	: 067°
UM52	175	: 165	: 035°
UM70	100	: 135	: 101°
UM91	50	: 15	: 121°

## ASTEROID CORRINATES

Name	R	$\Theta$	$\Phi$
AX01	200	: 240	: 134°
AX32	125	: 240	: 105°
AX71	125	: 180	: 047°
AX87	125	: 75	: 102°

## INHABITED ASTEROID CORRINATES

Name	R	$\Theta$	$\Phi$
AB40	250	: 300	: 022°

## SHIP CORRINATES

Name	R	$\Theta$	$\Phi$
US75	175	: 135	: 034°

## INSTRUCTIONS FOR USE:

TO REACH YOUR DESTINATION, ENTER THE THREE CORRINATES INTO YOUR NAVIGATION COMPUTER BY TYPING:

**COMPUTER, RANGE IS (VALUE). THETA IS (VALUE). PHI IS (VALUE).**

AS A SAFETY FEATURE, YOUR COMPUTER WILL NOT INITATE A NEW NAVIGATIONAL PROGRAM WITHOUT CONFIRMATION. YOU CAN DO THIS BY TYPING: **COMPUTER, CONFIRM NEW COURSE.**

# ***BUREAU OF EXTRA-SOLAR INTELLIGENCE***

TO: All Spacecraft Owners and Operators  
FROM: Bureau of Extra-Solar Intelligence  
SUBJECT: Encounters with Aliens  
DATE: February 8, 2132

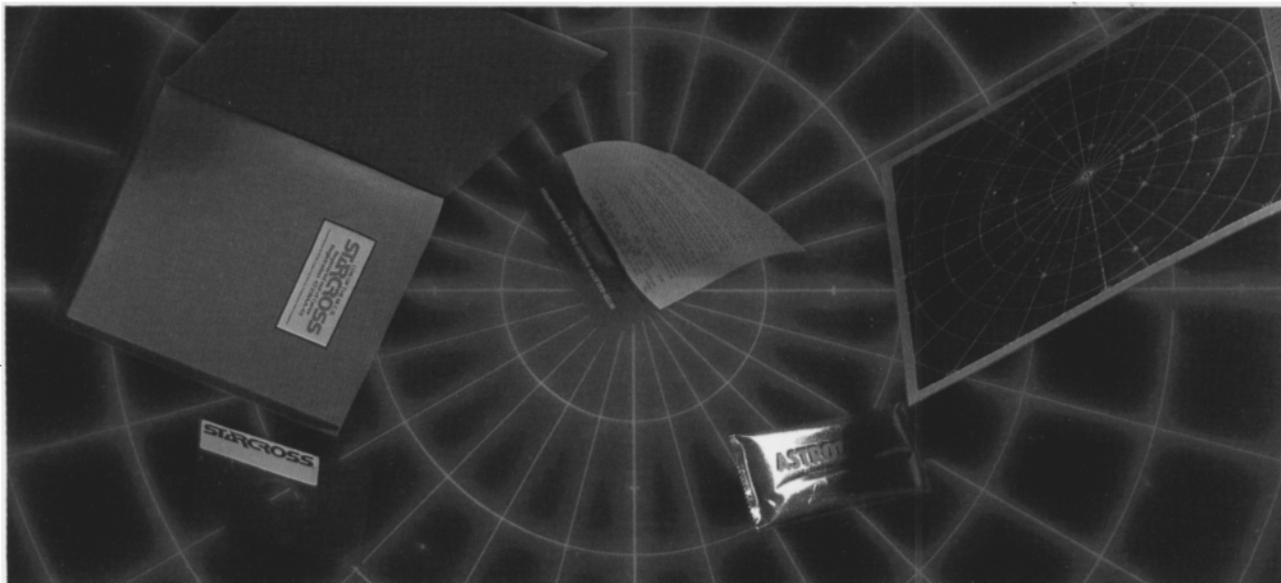
As of this writing, no registered spacecrafts have documented any encounters with alien life forms. Although sightings of unidentified objects have been reported, none have proved reliable.

Nevertheless, this Bureau believes that alien life forms do exist and will enter our solar system within the next millennium. This belief is based in part on the fact that repetitious signals have been received at the Arecibo and Pulkovo observatory dishes since the late twentieth century. The source of these signals--seven dashes followed by either three or 11 dashes--has not been established, but clearly a highly advanced civilization is sending them.

Should you or any of your crew members have an encounter with any. alien life form, notify your local space safety patrol as soon as possible. Extensive research suggests that there is a 99 percent chance that an alien will have only peaceful intentions. Do not--repeat, DO NOT--hurt or kill any alien unless it is a life-or-death situation for you or a member of your crew.

We have surmised that any alien will be equipped with sensory organs, physical manipulators, a method of locomotion, and a method for gathering energy and eliminating waste heat and (most likely) chemicals. Note that alien life forms are likely to have evolved under extremely different conditions than have existed on Earth. They may not be able to perceive the same physical and electromagnetic frequencies as humans. They may not consist of a carbon-based chemistry, and their metabolisms may not be chemical in nature. The atmosphere of your ship may be poisonous to them, and vice versa.

It is possible that an alien race will be similar to ours in appearance. However, do not let appearances fool you; gestures and facial expressions are cultural in origin and are likely to mean different things. A smile, for instance, may be interpreted as a baring of teeth, forewarning attack. If you do encounter an alien, please remain calm and be very careful. Remember: the first alien encounter will be an historic event far surpassing Columbus's discovery of America. The responsibility of being ambassador for all Earth is very great, but the rewards for success will be greater.



Sucked by the force of a miniature black hole into this and every STARCROSS package: your STARCROSS disk, M.C.S. STARCROSS ship's log, a computer-generated map of outer space and the most up-to-date instructions on what to do when you encounter aliens.

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