A Guide to the Mazes of Menace (Guidebook for SLASH'EM 0.0.6)

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1. Introduction

Recently, you have begun to find yourself unfulfilled and distant in your daily occupation. Strange dreams of prospecting, stealing, crusading, and combat have haunted you in your sleep for many months, but you aren't sure of the reason. You wonder whether you have in fact been having those dreams all your life, and somehow managed to forget about them until now. Some nights you awaken suddenly and cry out, terrified at the vivid recollection of the strange and powerful creatures that seem to be lurking behind every corner of the dungeon in your dream. Could these details haunting your dreams be real? As each night passes, you feel the desire to enter the mysterious caverns near the ruins grow stronger. Each morning, however, you quickly put the idea out of your head as you recall the tales of those who entered the caverns before you and did not return. Eventually you can resist the yearning to seek out the fantastic place in your dreams no longer. After all, when other adventurers came back this way after spending time in the caverns, they usually seemed better off than when they passed through the first time. And who was to say that all of those who did not return had not just kept going?

Asking around, you hear about a bauble, called the Amulet of Yendor by some, which, if you can find it, will bring you great wealth. One legend you were told even mentioned that the one who finds the amulet will be granted immortality by the gods. The amulet is rumored to be somewhere beyond the Valley of Gehennom, deep within the Mazes of Menace. Upon hearing the legends, you immediately realize that there is some profound and undiscovered reason that you are to descend into the caverns and seek out that amulet of which they spoke. Even if the rumors of the amulet's powers are untrue, you decide that you should at least be able to sell the tales of your adventures to the local minstrels for a tidy sum, especially if you encounter any of the terrifying and magical creatures of your dreams along the way. You spend one last night fortifying yourself at the local inn, becoming more and more depressed as you watch the odds of your success being posted on the inn's walls getting lower and lower.

In the morning you awake, collect your belongings, and set off for the dungeon. After several days of uneventful travel, you see the ancient ruins that mark the entrance to the Mazes of Menace. It is late at night, so you make camp at the entrance and spend the night sleeping under the open skies. In the morning, you gather your gear, eat what may be your last meal outside, and enter the dungeon...

2. What is going on here?

You have just begun a game of SLASH'EM. Your goal is to grab as much treasure as you can, retrieve the Amulet of Yendor, and escape the Mazes of Menace alive.

Your abilities and strengths for dealing with the hazards of adventure will vary with your background and training:

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Archeologists understand dungeons pretty well; this enables them to move quickly and sneak up on the local nasties. They start equipped with the tools for a proper scientific expedition.

Barbarians are warriors out of the hinterland, hardened to battle. They begin their quests with naught but uncommon strength, a trusty hauberk, and a great two-handed sword.

Cavemen and Cavewomen start with exceptional strength but, unfortunately, with neolithic weapons.

Flame Mages have managed to harness mystical energies into the control of the element of fire. Notwithstanding their pet hell hounds, woe be unto anyone who stands in the way of a skilled mage casting a fireball.

Healers are wise in medicine and apothecary. They know the herbs and simples that can restore vitality, ease pain, anesthetize, and neutralize poisons; and with their instruments, they can divine a being's state of health or sickness. Their medical practice earns them quite reasonable amounts of money, with which they enter the dungeon.

Ice Mages command the forces of cold. An experienced Mage can summon great blizzards yet remain unaffected by the turmoil of the elements.

Knights are distinguished from the common skirmisher by their devotion to the ideals of chivalry and by the surpassing excellence of their armor.

Monks are ascetics, who by rigorous practice of physical and mental disciplines have become capable of fighting as effectively without weapons as with. They wear no armor but make up for it with increased mobility.

Necromancers have delved into the darkest of the magical lore, and mastered some of the most forbidden of the magical lore. Many have fallen to the armies of the undead that they are capable of bringing forth and controlling.

Priests and *Priestesses* are clerics militant, crusaders advancing the cause of righteousness with arms, armor, and arts thaumaturgic. Their ability to commune with deities via prayer occasionally extricates them from peril, but can also put them in it.

Rangers are most at home in the woods, and some say slightly out of place in a dungeon. They are, however, experts in archery as well as tracking and stealthy movement.

Rogues are agile and stealthy thieves, with knowledge of locks, traps, and poisons. They specialize in surprise, which they employ to great advantage.

Samurai are the elite warriors of feudal Nippon. They are heavily armored but quick, and wear the *dai-sho*, two swords of the deadliest keenness.

Tourists start out with lots of gold (suitable for shopping with), a credit card, lots of food, some maps, and an expensive camera. Most monsters don't like being photographed.

Undead Slayers are specialists, trained to hunt the undead as well as other incarnations of evil. They are well aware of the weaknesses of their foes and come prepared. Few denizens of darkness ever encounter such warriors of light and live to tell of it.

Valkyries are hardy warrior women. Their upbringing in the harsh Northlands makes them strong, inures them to extremes of cold, and instills in them stealth and cunning.

Wizards start out with a knowledge of magic, a selection of magical items, and a particular affinity for dweomercraft. Although seemingly weak and easy to overcome at first sight, an experienced Wizard is a deadly foe.

Yeomen are sturdy fighters. They are famed for their ability to stand doing nothing for hours. It is said that this is because they are none too bright. Yeomen can both take a lot of damage and inflict it on others.

You may also choose the race of your character:

Doppelgangers have the anviable ability to change form at will, at a cost of some mystic energy (*mana*), although what they become may be a bit of a surprise, even for them.

Dwarves are smaller than humans or elves, but are stocky and solid individuals. Dwarves' most notable trait is their great expertise in mining and metalwork. Dwarvish armor is said to be second in quality not even to the mithril armor of the Elves.

Elves and *Drows* are agile, quick, and perceptive; very little of what goes on will escape an Elf. The quality of Elven craftsmanship often gives them an advantage in arms and armor.

Gnomes are smaller than but generally similar to dwarves. Gnomes are known to be expert miners, and it is known that a secret underground mine complex built by this race exists within the Mazes of Menace, filled with both riches and danger.

Hobbits are quick of hearing and sharp-eyed, and though they are inclined to be fat and do not hurry unnecessarily, they are nonetheless nimble and deft in their movements. A love of learning (other than genealogical lore) is far from general among them. Hobbits are difficult to daunt, or to kill, and at need can still handle arms.

Humans are by far the most common race of the surface world, and are thus the norm by which other races are often compared. Although they have no special abilities, they can succeed in any role.

Lycanthropes are wild beasts who draw their strength from the phases of the moon, and can transform into wolves when they channel their magical energies. Even unarmed, a Lycanthrope is a savage fighter, as many scarred by their deadly claws can attest.

Orcs are a cruel and barbaric race that hate every living thing (including other orcs). Above all others, Orcs hate Elves with a passion unequalled, and will go out of their way to kill one at any opportunity. The armor and weapons fashioned by the Orcs are typically of inferior quality.

Vampires strike fear into the heart of many. Their super-human strength, notorious dexterity and resiliance make them difficult to defeat while their almost hypnotic charm makes them dangerous opponents. Even their own Gods treat vampires with some distaste.

3. What do all those things on the screen mean?

On the screen is kept a map of where you have been and what you have seen on the current dungeon level; as you explore more of the level, it appears on the screen in front of you.

When SLASH'EM's ancestor *rogue* first appeared, its screen orientation was almost unique among computer fantasy games. Since then, screen orientation has become the norm rather than the exception; SLASH'EM continues this fine tradition. Unlike text adventure games that accept commands in pseudo-English sentences and explain the results in words, SLASH'EM commands are all one or two keystrokes and the results are displayed graphically on the screen. A minimum screen size of 24 lines by 80 columns is recommended; if the screen is larger, only a 21x80 section will be used for the map.

SLASH'EM can even be played by blind players, with the assistance of Braille readers or speech synthesisers. Instructions for configuring SLASH'EM for the blind are included later in this document.

SLASH'EM generates a new dungeon every time you play it; even the authors still find it an entertaining and exciting game despite having won several times.

SLASH'EM offers a variety of display options. The options available to you will vary from port to port, depending on the capabilities of your hardware and software, and whether various compile-time options were enabled when your executable was created. The three possible display options are: a monochrome character interface, a color character interface, and a graphical interface using small pictures called tiles. The two character interfaces allow fonts with other characters to be substituted, but the default assignments use standard ASCII characters to represent everything. There is no difference between the various display options with respect to game play. Because we cannot reproduce the tiles or colors in the Guidebook, and because it is common to all ports, we will use the default ASCII characters from the monochrome character display when referring to things you might see on the screen during your game.

In order to understand what is going on in SLASH'EM, first you must understand what SLASH'EM is doing with the screen. The SLASH'EM screen replaces the "You see ..." descriptions of text adventure games. Figure 1 is a sample of what a SLASH'EM screen might look like.

The bat bites!
----|...| -----|.<..|####...@...\$.|

Player the Rambler St:12 Dx:7 Co:18 In:11 Wi:9 Ch:15 Neutral Dlvl:1 \$:0 HP:9(12) Pw:3(3) AC:10 Exp:1/19 T:257 Weak

Figure 1

3.1. The status lines (bottom)

The bottom two lines of the screen contain several cryptic pieces of information describing your current status. If either status line becomes longer than the width of the screen, you might not see all of it. Here are explanations of what the various status items mean (though your configuration may not have all the status items listed below):

Rank

Your character's name and professional ranking (based on the experience level, see below).

Strength

A measure of your character's strength; one of your six basic attributes. Your attributes can range from 3 to 18 inclusive (occasionally you may get super-strengths of the form 18/xx). The higher your strength, the stronger you are. Strength affects how successfully you perform physical tasks, how much damage you do in combat, and how much loot you can carry.

Dexterity

Dexterity affects your chances to hit in combat, to avoid traps, and do other tasks requiring agility or manipulation of objects.

Constitution

Constitution affects your ability to recover from injuries and other strains on your stamina.

Intelligence

Intelligence affects your ability to cast spells and read spellbooks.

Wisdom

Wisdom comes from your practical experience (especially when dealing with magic). It affects your magical energy.

Charisma

Charisma affects how certain creatures react toward you. In particular, it can affect the prices shopkeepers offer you.

Alignment

Lawful, **Neutral**, or **Chaotic**. Often, Lawful is taken as good and Chaotic as evil, but legal and ethical do not always coincide. Your alignment influences how other monsters react toward you. Monsters of a like alignment are more likely to be non-aggressive, while those of an opposing alignment are more likely to be seriously offended at your presence.

Dungeon Level

How deep you are in the dungeon. You start at level one and the number increases as you go deeper into the dungeon. Some levels are special, and are identified by a name and not a number. The Amulet of Yendor is reputed to be somewhere beneath the twentieth level.

Gold

The number of gold pieces you are openly carrying. Gold which you have concealed in containers is not counted.

Hit Points

Your current and maximum hit points. Hit points indicate how much damage you can take before you die. The more you get hit in a fight, the lower they get. You can regain hit points by resting, or by using certain magical items or spells. The number in parentheses is the maximum number your hit points can reach.

Power

Spell points. This tells you how much mystic energy (mana) you have available for spell casting. Again, resting will regenerate the amount available.

Armor Class

A measure of how effectively your armor stops blows from unfriendly creatures. The lower this number is, the more effective the armor; it is quite possible to have negative armor class.

Experience

Your current experience level and experience points. As you adventure, you gain experience points. At certain experience point totals, you gain an experience level. The more experienced you are, the better you fight and withstand magical attacks. Many dungeons show only your experience level here.

Weight

The total weight of all items in your inventory, displayed if you have the **showweight** option set. The number after the slash is your carrying capacity.

Time

The number of turns elapsed so far, displayed if you have the **time** option set.

Hunger status

Your current hunger status, ranging from **Satiated** down to **Fainting**. If your hunger status is normal, it is not displayed.

Additional status flags may appear after the hunger status: **Conf** when you're confused, **FoodPois** or **Ill** when sick, **Blind** when you can't see, **Stun** when stunned, and **Hallu** when hallucinating.

3.2. The message line (top)

The top line of the screen is reserved for messages that describe things that are impossible to represent visually. If you see a "--More--" on the top line, this means that SLASH'EM has another message to display on the screen, but it wants to make certain that you've read the one that is there first. To read the next message, just press the space bar.

3.3. The map (rest of the screen)

The rest of the screen is the map of the level as you have explored it so far. Each symbol on the screen represents something. You can set various graphics options to change some of the symbols the game uses; otherwise, the game will use default symbols. Here is a list of what the default symbols mean:

- and |The walls of a room, or an open door. Or a grave (|).
- . The floor of a room, ice, or a doorless doorway.
- # A corridor, or iron bars, or a tree, or possibly a kitchen sink (if your dungeon has sinks), or a drawbridge.
- > Stairs down: a way to the next level.
- < Stairs up: a way to the previous level.
- + A closed door, or a spellbook containing a spell you may be able to learn.
- @ Your character or a human.
- \$ A pile of gold.
- ^ A trap (once you have detected it).
-) A weapon.
- [A suit or piece of armor.

- % Something edible (not necessarily healthy).
- ? A scroll.
- / A wand.
- = A ring.
- ! A potion.
- (A useful item (pick-axe, key, lamp...).
- " An amulet or a spider web.
- * A gem or rock (possibly valuable, possibly worthless).
- A boulder or statue.
- 0 An iron ball.
- An altar, or an iron chain.
- { A fountain.
- A pool of water or moat or a pool of lava.
- \ An opulent throne.

a-zA-Z and other symbols

Letters and certain other symbols represent the various inhabitants of the Mazes of Menace. Watch out, they can be nasty and vicious. Sometimes, however, they can be helpful.

You need not memorize all these symbols; you can ask the game what any symbol represents with the '/' command (see the next section for more info).

4. Commands

Commands are initiated by typing one or two characters. Some commands, like "search", do not require that any more information be collected by SLASH'EM. Other commands might require additional information, for example a direction, or an object to be used. For those commands that require additional information, SLASH'EM will present you with either a menu of choices or with a command line prompt requesting information. Which you are presented with will depend chiefly on how you have set the **menustyle** option.

For example, a common question, in the form "What do you want to use? [a-zA-Z?*]", asks you to choose an object you are carrying. Here, "a-zA-Z" are the inventory letters of your possible choices. Typing '?' gives you an inventory list of these items, so you can see what each letter refers to. In this example, there is also a '*' indicating that you may choose an object not on the list, if you wanted to use something unexpected. Typing a '*' lists your entire inventory, so you can see the inventory letters of every object you're carrying. Finally, if you change your mind and decide you don't want to do this command after all, you can press the ESC key to abort the command.

You can put a number before some commands to repeat them that many times; for example, "10s" will search ten times. If you have the **number_pad** option set, you must type 'n' to prefix a count, so the example above would be typed "n10s" instead. Commands for which counts make no sense ignore them. In addition, movement commands can be prefixed for greater control (see below). To cancel a count or a prefix, press the ESC key.

The list of commands is rather long, but it can be read at any time during the game through the '?' command, which accesses a menu of helpful texts. As well, there is now a menusystem available through the ''' command for those who would rather page through menus than hunt and peck for keys. Here are the commands for your reference:

ESC Cancel the current operation (where applicable) or skip messages. If the **menu_on_esc** option is set, then this key will access the menusystem when pressed while the program is waiting for a command.

- ? Help menu: display one of several help texts available.
- ' Main menu: access the menusystem.
- Tell what a symbol represents. You may choose to specify a location or type a symbol (or even a whole word) to explain. Specifying a location is done by moving the cursor to a particular spot on the map and then

pressing one of '.', ',', ';', or ':'. '.' will explain the symbol at the chosen location, conditionally check for "More info?" depending upon whether the **help** option is on, and then you will be asked to pick another location; ',' will explain the symbol but skip any additional information; ';' will skip additional info and also not bother asking you to choose another location to examine; ':' will show additional info, if any, without asking for confirmation. When picking a location, pressing the ESC key will terminate this command, or pressing '?' will give a brief reminder about how it works.

Specifying a name rather than a location always gives any additional information available about that name.

- & Tell what a command does.
- < Go up to the previous level (if you are on the staircase or ladder).
- > Go down to the next level (if you are on the staircase or ladder).

[yuhjklbn]

Go one step in the direction indicated (see Figure 2). If you can sense a monster there, you will fight the monster instead. Only these one-step movement commands cause you to fight monsters; the others (below) are "safe."

Figure 2

[YUHJKLBN]

Go in that direction until you hit a wall or run into something.

m[yuhjklbn]

Prefix: move without picking up objects or fighting (even if you remember a monster there)

F[yuhjklbn]

Prefix: fight a monster (even if you only guess one is there)

M[yuhjklbn]

Prefix: move far, no pickup.

g[yuhjklbn]

Prefix: move until something interesting is found.

G[yuhjklbn] or <CONTROL->[yuhjklbn]

Prefix: same as 'g', but forking of corridors is not considered interesting.

- . Rest, do nothing for one turn.
- a Apply (use) a tool (pick-axe, key, lamp...).
- A Remove one or more worn items, such as armor. Use 'T' (take off) to take off only one piece of armor or 'R' (remove) to take off only one accessory.
- ^A Redo the previous command.
- [^]B Borrow (steal) money from an adjacent monster.
- c Close a door.
- C Call (name) an individual monster.
- [^]C Panic button. Quit the game.
- d Drop something. Ex. "d7a" means drop seven items of object a.
- D Drop several things. In answer to the question "What kinds of things do you want to drop? [!%= aium]" you should type zero or more object symbols possibly followed by 'a' and/or 'i' and/or 'u' and/or 'm'.

- Da drop all objects, without asking for confirmation.
- Di examine your inventory before dropping anything.
- Du drop only unpaid objects (when in a shop).
- Dm use a menu to pick which object(s) to drop.
- D%u drop only unpaid food.
- [^]D Kick something (usually a door).
- e Eat food. Vampires cannot eat as such. However, they can gain nutrition by draining blood from fresh corpses using this command.
- E Engrave a message on the floor. Engraving the word "Elbereth" will cause most monsters to not attack you hand-to-hand (but if you attack, you will rub it out); this is often useful to give yourself a breather. (This feature may be compiled out of the game, so your version might not have it.)
 - E- write in the dust with your fingers.
- f Fire one of the objects placed in your quiver. You may select ammunition with a previous 'Q' command, or let the computer pick something appropriate if **autoquiver** is true.
- i List your inventory (everything you're carrying).
- I List selected parts of your inventory.
 - I* list all gems in inventory;
 - Iu list all unpaid items;
 - Ix list all used up items that are on your shopping bill;
 - I\$ count your money.
- o Open a door.
- O Set options. A menu showing the current option values will be displayed. You can change most values simply by selecting the menu entry for the given option (ie, by typing its letter or clicking upon it, depending on your user interface). For the non-boolean choices, a further menu or prompt will appear once you've closed this menu. The available options are listed later in this Guidebook. Options are usually set before the game rather than with the 'O' command; see the section on options below.
- p Pay your shopping bill/Shopkeeper services.
- P Put on a ring or other accessory (amulet, blindfold).
- P Repeat previous message (subsequent P's repeat earlier messages).
- q Quaff (drink) a potion.
- Q Select an object for your quiver. You can then throw this using the 'f' command. (In NetHack versions prior to 3.3 this was the command to quit the game, which has now been moved to '#quit'.)
- r Read a scroll or spellbook.
- R Remove an accessory (ring, amulet, etc).
- ^R Redraw the screen.
- s Search for secret doors and traps around you. It usually takes several tries to find something.
- S Save (and suspend) the game. The game will be restored automatically the next time you play.
- t Throw an object or shoot a projectile.
- T Take off armor.
- Teleport, if you have the ability.
- v Display version number.
- V Display the game history.
- w Wield weapon.
 - w- wield nothing, use your bare hands.

- W Wear armor.
- x Exchange your wielded weapon with the item in your secondary weapon slot. The latter is used as your second weapon in two-weapon combat. Note that if one of these slots is empty, the exchange still takes place.
- X Enter explore (discovery) mode, explained in its own section later.
- X Display your name, role, race, gender, and alignment as well as the various deities in your game.
- Y Polymorph yourself, if you have the ability.
- z Zap a wand. To aim at yourself, use '.' for the direction.
- Z Zap (cast) a spell.
- [^]Z Suspend the game (UNIX[®] versions with job control only).
- : Look at what is here.
- ; Show what type of thing a visible symbol corresponds to.
- , Pick up some things.
- @ Toggle the **autopickup** option on and off.
- ^ Ask for the type of a trap you found earlier.
- Tell what weapon you are wielding.
- [Tell what armor you are wearing.
- = Tell what rings you are wearing.
- " Tell what amulet you are wearing.
- (Tell what tools you are using.
- * Tell what equipment you are using; combines the preceding five type-specific commands into one.
- \$ Count your gold pieces.
- + List the spells you know. Using this command, you can also rearrange the order in which your spells are listed. They are shown via a menu, and if you select a spell in that menu, you'll be re-prompted for another spell to swap places with it, and then have opportunity to make further exchanges.
- Show what types of objects have been discovered.
- ! Escape to a shell.
- # Perform an extended command. As you can see, the authors of NetHack used up all the letters, so this is a way to introduce the less frequently used commands. What extended commands are available depends on what features the game was compiled with.

#adjust

Adjust inventory letters (most useful when the **fixinv** option is "on").

#borrow

Borrow (steal) money from an adjacent monster, if you have the ability.

#chat Talk to someone.

#conduct

List which challenges you have adhered to.

#dip Dip an object into something.

#enhance

Advance or check weapons and spell skills.

#force

Force a lock.

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#invoke

Invoke an object's special powers.

#jump

Jump to another location.

#loot Loot a box or bag on the floor beneath you, or the saddle from a horse standing next to you.

#monster

Use a monster's special ability (when polymorphed into monster form).

#name

Name an item or type of object.

#offerOffer a sacrifice to the gods.

#pray Pray to the gods for help.

#quit Quit the program without saving your game.

#ride Ride (or stop riding) a monster.

#rub Rub a lamp.

#sit Sit down.

#technique

Perform a role or race specific technique. A menu showing the techniques available to your character will be displayed.

#turn Turn undead.

#twoweapon

Toggle two-weapon combat on or off. Note that you must use suitable weapons for this type of combat, or it will be automatically turned off.

#untrap

Untrap something (trap, door, or chest).

#youpoly

Polymorph yourself, if you have the ability.

#version

Print compile time options for this version of SLASH'EM.

#wipeWipe off your face.

#? Help menu: get the list of available extended commands.

If your keyboard has a meta key (which, when pressed in combination with another key, modifies it by setting the 'meta' [8th, or 'high'] bit), you can invoke many extended commands by meta-ing the first letter of the command. In NT, OS/2, and PC SLASH'EM, the 'Alt' key can be used in this fashion.

M-2 #twoweapon

M-a #adjust

M-b #borrow

M-c #chat

M-d #dip

M-e #enhance

M-f #force

M-i #invoke

M-j #jump

M-l #loot

- M-m #monster
- M-n #name
- M-o #offer
- M-p #pray
- M-q #quit
- M-r #rub
- M-s #sit
- M-t #technique
- M-u #untrap
- M-v #version
- M-w #wipe
- M-y #youpoly

If the **number_pad** option is on, some additional letter commands are available:

- j Jump to another location. Same as "#jump" or "M-j".
- k Kick something (usually a door). Same as 'D'.
- Loot a box or bag on the floor beneath you, or the saddle from a horse standing next to you. Same as "#loot" or "M-1".
- N Name an item or type of object. Same as "#name" or "M-N".
- u Untrap a trap, door, or chest. Same as "#untrap" or "M-u".

5. Rooms and corridors

Rooms and corridors in the dungeon are either lit or dark. Any lit areas within your line of sight will be displayed; dark areas are only displayed if they are within one space of you. Walls and corridors remain on the map as you explore them.

Secret corridors are hidden. You can find them with the 's' (search) command.

5.1. Doorways

Doorways connect rooms and corridors. Some doorways have no doors; you can walk right through. Others have doors in them, which may be open, closed, or locked. To open a closed door, use the 'o' (open) command; to close it again, use the 'c' (close) command.

You can get through a locked door by using a tool to pick the lock with the 'a' (apply) command, or by kicking it open with the 'D' (kick) command.

Open doors cannot be entered diagonally; you must approach them straight on, horizontally or vertically. Doorways without doors are not restricted in this fashion.

Doors can be useful for shutting out monsters. Most monsters cannot open doors, although a few don't need to (ex. ghosts can walk through doors).

Secret doors are hidden. You can find them with the 's' (search) command. Once found they are in all ways equivalent to normal doors.

5.2. Traps ('^')

There are traps throughout the dungeon to snare the unwary delver. For example, you may suddenly fall into a pit and be stuck for a few turns trying to climb out. Traps don't appear on your map until you see one triggered by moving onto it, see something fall into it, or you discover it with the 's' (search) command. Monsters can fall prey to traps, too, which can be a very useful defensive strategy.

There is a special pre-mapped branch of the dungeon based on the classic computer game "Sokoban." The goal is to push the boulders into the pits or holes. With careful foresight, it is possible to complete all of the levels according to the traditional rules of Sokoban. Some allowances are permitted in case the player gets stuck; however, they will lower your luck.

5.3. Stairs ('<', '>')

In general, each level in the dungeon will have a staircase going up ('<') to the previous level and another going down ('>') to the next level. There are some exceptions though. For instance, fairly early in the dungeon you will find a level with two down staircases, one continuing into the dungeon and the other branching into an area known as the Gnomish Mines. Those mines eventually hit a dead end, so after exploring them (if you choose to do so), you'll need to climb back up to the main dungeon.

When you traverse a set of stairs, or trigger a trap which sends you to another level, the level you're leaving will be deactivated and stored in a file on disk. If you're moving to a previously visited level, it will be loaded from its file on disk and reactivated. If you're moving to a level which has not yet been visited, it will be created (from scratch for most random levels, from a template for some "special" levels, or loaded from the remains of an earlier game for a "bones" level as briefly described below). Monsters are only active on the current level; those on other levels are essentially placed into stasis.

Ordinarily when you climb a set of stairs, you will arrive on the corresponding staircase at your destination. However, pets (see below) and some other monsters will follow along if they're close enough when you travel up or down stairs, and occasionally one of these creatures will displace you during the climb. When that occurs, the pet or other monster will arrive on the staircase and you will end up nearby.

5.4. Ladders ('<', '>')

Ladders serve the same purpose as staircases, and the two types of inter-level connections are nearly indistinguishable during game play.

6. Monsters

Monsters you cannot see are not displayed on the screen. Beware! You may suddenly come upon one in a dark place. Some magic items can help you locate them before they locate you (which some monsters can do very well).

The commands '/' and ';' may be used to obtain information about those monsters who are displayed on the screen. The command 'C' allows you to assign a name to a monster, which may be useful to help distinguish one from another when multiple monsters are present. Assigning a name which is just a space will remove any prior name.

The extended command "#chat" can be used to interact with an adjacent monster. There is no actual dialog (in other words, you don't get to choose what you'll say), but chatting with some monsters such as a shopkeeper or the Oracle of Delphi can produce useful results.

6.1. Fighting

If you see a monster and you wish to fight it, just attempt to walk into it. Many monsters you find will mind their own business unless you attack them. Some of them are very dangerous when angered. Remember: discretion is the better part of valor.

6.2. Your pet

You start the game with a little dog ('d'), cat ('f'), hell hound pup ('d'), winter wolf cub ('d'), ghoul ('Z'), or pony ('u'), which follows you about the dungeon and fights monsters with you. With the exception of ghouls, your pet needs food to survive. It usually feeds itself on fresh carrion and other meats. If you're worried about it or want to train it, you can feed it, too, by throwing it food. A properly trained pet can be very useful under certain circumstances.

Your pet also gains experience from killing monsters, and can grow over time, gaining hit points and doing more damage. Initially, your pet may even be better at killing things than you, which makes pets useful for low-level characters.

Your pet will follow you up and down staircases if it is next to you when you move. Otherwise your pet will be stranded and may become wild. Similarly, when you trigger certain types of traps which alter your location (for instance, a trap door which drops you to a lower dungeon level), any adjacent pet will accompany you and any non-adjacent pet will be left behind. Your pet may trigger such traps itself; you will not be carried along with it even if adjacent at the time.

6.3. Steeds

Some types of creatures in the dungeon can actually be ridden if you have the right equipment and skill. Convincing a wild beast to let you saddle it up is difficult to say the least. Many a dungeoneer has had to resort to magic and wizardry in order to forge the alliance. Once you do have the beast under your control however, you can easily climb in and out of the saddle with the '#ride' command. Lead the beast around the dungeon when riding, in the same manner as you would move yourself. It is the beast that you will see displayed on the map.

Riding skill is managed by the '#enhance' command. See the section on Weapon proficiency for more information about that.

6.4. Bones levels

You may encounter the shades and corpses of other adventurers (or even former incarnations of yourself!) and their personal effects. Ghosts are hard to kill, but easy to avoid, since they're slow and do little damage. You can plunder the deceased adventurer's possessions; however, they are likely to be cursed. Beware of whatever killed the former player; it is probably still lurking around, gloating over its last victory.

7. Objects

When you find something in the dungeon, it is common to want to pick it up. In SLASH'EM, this is accomplished automatically by walking over the object (unless you turn off the **autopickup** option (see below), or move with the 'm' prefix (see above)), or manually by using the ',' command.

If you're carrying too many items, SLASH'EM will tell you so and you won't be able to pick up anything more. Otherwise, it will add the object(s) to your pack and tell you what you just picked up.

As you add items to your inventory, you also add the weight of that object to your load. The amount that you can carry depends on your strength and your constitution. The stronger you are, the less the additional load will affect you. There comes a point, though, when the weight of all of that stuff you are carrying around with you through the dungeon will encumber you. Your reactions will get slower and you'll burn calories faster, requiring food more frequently to cope with it. Eventually, you'll be so overloaded that you'll either have to discard some of what you're carrying or collapse under its weight.

SLASH'EM will tell you how badly you have loaded yourself. The symbols 'Burdened', 'Stressed', 'Strained', 'Overtaxed' and 'Overloaded' are displayed on the bottom line display to indicate your condition.

When you pick up an object, it is assigned an inventory letter. Many commands that operate on objects must ask you to find out which object you want to use. When SLASH'EM asks you to choose a particular object you are carrying, you are usually presented with a list of inventory letters to choose from (see Commands, above).

Some objects, such as weapons, are easily differentiated. Others, like scrolls and potions, are given descriptions which vary according to type. During a game, any two objects with the same description are the same type. However, the descriptions will vary from game to game.

When you use one of these objects, if its effect is obvious, SLASH'EM will remember what it is for you. If its effect isn't extremely obvious, you will be asked what you want to call this type of object so you will recognize it later. You can also use the "#name" command for the same purpose at any time, to name all objects of a particular type or just an individual object. When you use "#name" on an object which has already been named, specifying a space as the value will remove the prior name instead of assigning a new one.

7.1. Curses and Blessings

Any object that you find may be cursed, even if the object is otherwise helpful. The most common effect of a curse is being stuck with (and to) the item. Cursed weapons weld themselves to your hand when wielded, so you cannot unwield them. Any cursed item you wear is not removable by ordinary means. In addition, cursed arms and armor usually, but not always, bear negative enchantments that make them less effective in combat. Other cursed objects may act poorly or detrimentally in other ways.

Objects can also be blessed. Blessed items usually work better or more beneficially than normal uncursed items. For example, a blessed weapon will do more damage against demons.

There are magical means of bestowing or removing curses upon objects, so even if you are stuck with one, you can still have the curse lifted and the item removed. Priests and Priestesses have an innate sensitivity to this property in any object, so they can more easily avoid cursed objects than other character roles.

An item with unknown status will be reported in your inventory with no prefix. An item which you know the state of will be distinguished in your inventory by the presence of the word "cursed", "uncursed" or "blessed" in the description of the item.

7.2. Weapons (')')

Given a chance, most monsters in the Mazes of Menace will gratuitously try to kill you. You need weapons for self-defense (killing them first). Without a weapon, you do only 1-2 hit points of damage (plus bonuses, if any). Monk characters are an exception; they normally do much more damage with bare hands than they do with weapons.

There are wielded weapons, like maces and swords, and thrown weapons, like arrows and spears. To hit monsters with a weapon, you must wield it and attack them, or throw it at them. You can simply elect to throw a spear.

To shoot an arrow, you should first wield a bow, then throw the arrow. An alternative method would be wield a bow and place the arrows in your Quiver, after which you fire the ammunition. Rangers and the like may find that having a bow as their secondary weapon is a useful combination. In order to use a secondary weapon to fire ammunition however, it must first be moved to the primary weapon slot. The "x" command is available for this use. Crossbows shoot crossbow bolts. Slings hurl rocks and (other) stones (like gems).

Enchanted weapons have a "plus" (or "to hit enhancement" which can be either positive or negative) that adds to your chance to hit and the damage you do to a monster. The only way to determine a weapon's enchantment is to have it magically identified somehow. Most weapons are subject to some type of damage like rust. Such "erosion" damage can be repaired.

The chance that an attack will successfully hit a monster, and the amount of damage such a hit will do, depends upon many factors. Among them are: type of weapon, quality of weapon (enchantment and/or erosion), experience level, strength, dexterity, encumbrance, and proficiency (see below). The monster's armor class - a general defense rating, not necessarily due to wearing of armor - is a factor too; also, some monsters are particularly vulnerable to certain types of weapons.

Many weapons can be wielded in one hand; some require both hands. When wielding a two-handed weapon, you can not wear a shield, and vice versa. When wielding a one-handed weapon, you can have another weapon ready to use by setting things up with the 'x' command, which exchanges your primary (the one being wielded) and secondary weapons. And if you have proficiency in the "two weapon combat" skill, you may wield both primary and secondary weapons simultaneously; use the '#twoweapon' extended command to engage or disengage that. Only some types of characters (barbarians, for instance), have the necessary skill available. Even with that skill, using two weapons at once incurs a penalty in the chance to hit your target compared to using just one weapon at a time.

There might be times when you'd rather not wield any weapon at all. To accomplish that, wield '-', or else use the 'A' command which allows you to unwield the current weapon in addition to taking off other worn items.

Those of you in the audience who are AD&D players, be aware that each weapon which exists in AD&D does roughly the same damage to monsters in SLASH'EM. Some of the more obscure weapons (such as the *aklys*, *lucern hammer*, and *bec-de-corbin*) are defined in an appendix to *Unearthed Arcana*, an AD&D supplement.

The commands to use weapons are 'w' (wield), 't' (throw), 'f' (fire, an alternative way of throwing), 'Q' (quiver), 'x' (exchange), '#twoweapon', and '#enhance' (see below).

7.2.1. Throwing and shooting

You can throw just about anything via the 't' command. It will prompt for the item to throw; picking '?' will list things in your inventory which are considered likely to be thrown, or picking '*' will list your entire inventory. After you've chosen what to throw, you will be prompted for a direction rather than for a specific target. The distance something can be thrown depends mainly on the type of object and your strength. Arrows can be thrown by hand, but can be thrown much farther and will be more likely to hit when thrown while you are wielding a bow.

You can simplify the throwing operation by using the 'Q' command to select your preferred "missile", then using the 'f' command to throw it. You'll be prompted for a direction as above, but you don't have to specify which item to throw each time you use 'f'. There is also an option, **autoquiver**, which has SLASH'EM choose another item to automatically fill your quiver when the inventory slot used for 'Q' runs out.

Some characters will throw multiple items in a single action. Rangers, for instance, or anyone who achieves a high level of proficiency in the relevant weapon skill (in bow skill if you're wielding one to shoot arrows, or in sling skill if you're wielding one to shoot stones). There is little you can do to control this; if SLASH'EM decides that you'll be shooting 3 arrows on the current shot, then three arrows will travel in the direction you've indicated, even if the first or second succeeds in killing the target. You can explicitly limit the number of shots by using a numeric prefix before the 't' or 'f' command. For example, "2f" (or "n2f" if using **number_pad** mode) would ensure that at most 2 arrows are shot even if SLASH'EM decides that your skill warrants 3. If you specify a larger number than would have been shot ("4f" in this example), you'll just end up shooting the same number (3, here) as if no limit had been specified.

7.2.2. Weapon proficiency

You will have varying degrees of skill in the weapons available. Weapon proficiency, or weapon skills, affect how well you can use particular types of weapons, and you'll be able to improve your skills as you progress through a game, depending on your role, your experience level, and use of the weapons.

For the purposes of proficiency, weapons have been divided up into various groups such as daggers, broadswords, and polearms. Each role has a limit on what level of proficiency a character can achieve for each group. For instance, wizards can become highly skilled in daggers or staves but not in swords or bows.

The '#enhance' extended command is used to review current weapons proficiency (also spell proficiency) and to choose which skill(s) to improve when you've used one or more skills enough to become eligible to do so. The skill rankings are "none" (sometimes also referred to as "restricted", because you won't be able to advance), "unskilled", "basic", "skilled", and "expert". Restricted skills simply will not appear in the list shown by '#enhance'. (Divine intervention might unrestrict a particular skill, in which case it will start at unskilled and be limited to basic.) Some characters can enhance their barehanded combat or martial arts skill beyond expert to "master" or "grand master".

Use of a weapon in which you're restricted or unskilled will incur a modest penalty in the chance to hit a monster and also in the amount of damage done when you do hit; at basic level, there is no penalty or bonus; at skilled level, you receive a modest bonus in the chance to hit and amount of damage done; at expert level, the bonus is higher. A successful hit has a chance to boost your training towards the next skill level (unless you've already reached the limit for this skill). Once such training reaches the threshold for that next level, you'll be told that you feel more confident in your skills. At that point you can use '#enhance' to increase one or more skills. Such skills are not increased automatically because there is a limit to your total overall skills, so you need to actively choose which skills to enhance and which to ignore.

7.3. Armor ('[')

Lots of unfriendly things lurk about; you need armor to protect yourself from their blows. Some types of armor offer better protection than others. Your armor class is a measure of this protection. Armor class (AC) is measured as in AD&D, with 10 being the equivalent of no armor, and lower numbers meaning better armor. Each suit of armor which exists in AD&D gives the same protection in SLASH'EM. Here is an (incomplete) list of the armor classes provided by various suits of armor:

dragon scale mail	1
plate mail	3
crystal plate mail	3
bronze plate mail	4
splint mail	4
banded mail	4
dwarvish mithril-coat	4
elven mithril-coat	5
chain mail	5
orcish chain mail	6
scale mail	6
studded leather armor	7
ring mail	7
orcish ring mail	8
leather armor	8
leather jacket	9
no armor	10

You can also wear other pieces of armor (ex. helmets, boots, shields, cloaks) to lower your armor class even further, but you can only wear one item of each category (one suit of armor, one cloak, one helmet, one shield, and so on) at a time.

If a piece of armor is enchanted, its armor protection will be better (or worse) than normal, and its "plus" (or minus) will subtract from your armor class. For example, a +1 chain mail would give you better protection than normal chain mail, lowering your armor class one unit further to 4. When you put on a piece of armor, you immediately find out the armor class and any "plusses" it provides. Cursed pieces of armor usually have negative enchantments (minuses) in addition to being unremovable.

Many types of armor are subject to some kind of damage like rust. Such damage can be repaired. Some types of armor may inhibit spell casting.

The commands to use armor are 'W' (wear) and 'T' (take off). The 'A' command can also be used to take off armor as well as other worn items.

7.4. Food ('%')

Food is necessary to survive. If you go too long without eating you will faint, and eventually die of starvation. Some types of food will spoil, and become unhealthy to eat, if not protected. Food stored in ice boxes or tins ("cans") will usually stay fresh, but ice boxes are heavy, and tins take a while to open.

When you kill monsters, they usually leave corpses which are also "food." Many, but not all, of these are edible; some also give you special powers when you eat them. A good rule of thumb is "you are what you eat."

Some character roles and some monsters are vegetarian. Vegetarian monsters will typically never eat animal corpses, while vegetarian players can, but with some rather unpleasant side-effects.

You can name one food item after something you like to eat with the **fruit** option.

The command to eat food is 'e'.

7.5. Scrolls ('?')

Scrolls are labeled with various titles, probably chosen by ancient wizards for their amusement value (ex. "READ ME," or "THANX MAUD" backwards). Scrolls disappear after you read them (except for blank ones, without magic spells on them).

One of the most useful of these is the *scroll of identify*, which can be used to determine what another object is, whether it is cursed or blessed, and how many uses it has left. Some objects of subtle enchantment are difficult to identify without these.

A mail daemon may run up and deliver mail to you as a *scroll of mail* (on versions compiled with this feature). To use this feature on versions where SLASH'EM mail delivery is triggered by electronic mail appearing in your

system mailbox, you must let SLASH'EM know where to look for new mail by setting the "MAIL" environment variable to the file name of your mailbox. You may also want to set the "MAILREADER" environment variable to the file name of your favorite reader, so SLASH'EM can shell to it when you read the scroll. On versions of SLASH'EM where mail is randomly generated internal to the game, these environment variables are ignored. You can disable the mail daemon by turning off the **mail** option.

The command to read a scroll is 'r'.

7.6. Potions ('!')

Potions are distinguished by the color of the liquid inside the flask. They disappear after you quaff them.

Clear potions are potions of water. Sometimes these are blessed or cursed, resulting in holy or unholy water. Holy water is the bane of the undead, so potions of holy water are good things to throw ('t') at them. It is also sometimes very useful to dip ("#dip") an object into a potion.

The command to drink a potion is 'q' (quaff).

7.7. Wands ('/')

Magic wands usually have multiple magical charges. Some wands are directional—you must give a direction in which to zap them. You can also zap them at yourself (just give a '.' or 's' for the direction). Be warned, however, for this is often unwise. Other wands are nondirectional—they don't require a direction. The number of charges in a wand is random and decreases by one whenever you use it.

When the number of charges left in a wand becomes zero, attempts to use the wand will usually result in nothing happening. Occasionally, however, it may be possible to squeeze the last few mana points from an otherwise spent wand, destroying it in the process. A wand may be recharged by using suitable magic, but doing so runs the risk of causing it to explode. The chance for such an explosion starts out very small and increases each time the wand is recharged.

In a truly desperate situation, when your back is up against the wall, you might decide to go for broke and break your wand. This is not for the faint of heart. Doing so will almost certainly cause a catastrophic release of magical energies.

When you have fully identified a particular wand, inventory display will include additional information in parentheses: the number of times it has been recharged followed by a colon and then by its current number of charges. A current charge count of -1 is a special case indicating that the wand has been cancelled.

The command to use a wand is 'z' (zap). To break one, use the 'a' (apply) command.

7.8. Rings ('=')

Rings are very useful items, since they are relatively permanent magic, unlike the usually fleeting effects of potions, scrolls, and wands.

Putting on a ring activates its magic. You can wear only two rings, one on each ring finger.

Most rings also cause you to grow hungry more rapidly, the rate varying with the type of ring.

The commands to use rings are 'P' (put on) and 'R' (remove).

7.9. Spellbooks ('+')

Spellbooks are tomes of mighty magic. When studied with the 'r' (read) command, they transfer to the reader the knowledge of a spell (and therefore eventually become unreadable) — unless the attempt backfires. Reading a cursed spellbook or one with mystic runes beyond your ken can be harmful to your health!

A spell (even when learned) can also backfire when you cast it. If you attempt to cast a spell well above your experience level, or if you have little skill with the appropriate spell type, or cast it at a time when your luck is particularly bad, you can end up wasting both the energy and the time required in casting.

Casting a spell calls forth magical energies and focuses them with your naked mind. Releasing the magical energy releases some of your memory of the spell with it. Each time you cast a spell, your familiarity with it will dwindle, until you eventually forget the details completely and must relearn it.

Just as weapons are divided into groups in which a character can become proficient (to varying degrees), spells are similarly grouped. Successfully casting a spell exercises the skill group; sufficient skill may increase the potency of the spell and reduce the risk of spell failure. Skill slots are shared with weapons skills. (See also the section on "Weapon proficiency".)

Casting a spell also requires flexible movement, and wearing various types of armor may interfere with that.

The command to read a spellbook is the same as for scrolls, 'r' (read). The '+' command lists your current spells and the number of spell points they require. The 'Z' (cast) command casts a spell. The "#enhance" extended command advances your spellcasting skills.

7.10. Tools ('(')

Tools are miscellaneous objects with various purposes. Some tools have a limited number of uses, akin to wand charges. For example, lamps burn out after a while. Other tools are containers, which objects can be placed into or taken out of.

The command to use tools is 'a' (apply).

7.10.1. Containers

You may encounter bags, boxes, and chests in your travels. A tool of this sort can be opened with the "#loot" extended command when you are standing on top of it (that is, on the same floor spot), or with the 'a' (apply) command when you are carrying it. However, chests are often locked, and are in any case unwieldy objects. You must set one down before unlocking it by using a key or lock-picking tool with the 'a' (apply) command, by kicking it with the 'D' command, or by using a weapon to force the lock with the "#force" extended command.

Some chests are trapped, causing nasty things to happen when you unlock or open them. You can check for and try to deactivate traps with the "#untrap" extended command.

7.11. Amulets (""')

Amulets are very similar to rings, and often more powerful. Like rings, amulets have various magical properties, some beneficial, some harmful, which are activated by putting them on.

Only one amulet may be worn at a time, around your neck.

The commands to use amulets are the same as for rings, 'P' (put on) and 'R' (remove).

7.12. Gems ('*')

Some gems are valuable, and can be sold for a lot of gold. They are also a far more efficient way of carrying your riches. Valuable gems increase your score if you bring them with you when you exit.

Other small rocks are also categorized as gems, but they are much less valuable. All rocks, however, can be used as projectile weapons (if you have a sling). In the most desperate of cases, you can still throw them by hand.

7.13. Large rocks (``')

Statues and boulders are not particularly useful, and are generally heavy. It is rumored that some statues are not what they seem.

Very large humanoids (giants and their ilk) have been known to use boulders as weapons.

7.14. Gold ('\$')

Gold adds to your score, and you can buy things in shops with it. There are a number of monsters in the dungeon that may be influenced by the amount of gold you are carrying (shopkeepers aside).

8. Conduct

As if winning SLASH'EM were not difficult enough, certain players seek to challenge themselves by imposing restrictions on the way they play the game. The game automatically tracks some of these challenges, which can be checked at any time with the #conduct command or at the end of the game. When you perform an action which breaks a challenge, it will no longer be listed. This gives players extra "bragging rights" for winning the game with these challenges. Note that it is perfectly acceptable to win the game without resorting to these restrictions and that it is unusual for players to adhere to challenges the first time they win the game.

Several of the challenges are related to eating behavior. The most difficult of these is the foodless challenge. Although creatures can survive long periods of time without food, there is a physiological need for water; thus there is no restriction on drinking beverages, even if they provide some minor food benefits. Calling upon your god for help with starvation does not violate any food challenges either.

A strict vegan diet is one which avoids any food derived from animals. The primary source of nutrition is fruits and vegetables. The corpses and tins of blobs ('b'), jellies ('j'), and fungi ('F') are also considered to be vegetable matter. Certain human food is prepared without animal products; namely, lembas wafers, cram rations, food rations (gunyoki), K-rations, and C-rations. Metal or another normally indigestible material eaten while polymorphed into a creature that can digest it is also considered vegan food. Note however that eating such items still counts against foodless conduct.

Vegetarians do not eat animals; however, they are less selective about eating animal byproducts than vegans. In addition to the vegan items listed above, they may eat any kind of pudding ('P') other than the black puddings, eggs and food made from eggs (fortune cookies and pancakes), food made with milk (cream pies and candy bars), and lumps of royal jelly. Monks are expected to observe a vegetarian diet.

Eating any kind of meat violates the vegetarian, vegan, and foodless conducts. This includes tripe rations, the corpses or tins of any monsters not mentioned above, and the various other chunks of meat found in the dungeon. Swallowing and digesting a monster while polymorphed is treated as if you ate the creature's corpse. Eating leather, dragon hide, or bone items while polymorphed into a creature that can digest it, or eating monster brains while polymorphed into a (master) mind flayer, is considered eating an animal, although wax is only an animal byproduct.

Regardless of conduct, there will be some items which are indigestible, and others which are hazardous to eat. Using a swallow-and-digest attack against a monster is equivalent to eating the monster's corpse. Please note that the term "vegan" is used here only in the context of diet. You are still free to choose not to use or wear items derived from animals (e.g. leather, dragon hide, bone, horns, coral), but the game will not keep track of this for you. Also note that "milky" potions may be a translucent white, but they do not contain milk, so they are compatible with a vegan diet. Slime molds or player-defined "fruits", although they could be anything from "cherries" to "pork chops", are also assumed to be vegan.

An atheist is one who rejects religion. This means that you cannot #pray, #offer sacrifices to any god, #turn undead, or #chat with a priest. Particularly selective readers may argue that playing Monk or Priest characters should violate this conduct; that is a choice left to the player. Offering the Amulet of Yendor to your god is necessary to win the game and is not counted against this conduct. You are also not penalized for being spoken to by an angry god, priest(ess), or other religious figure; a true atheist would hear the words but attach no special meaning to them.

Most players fight with a wielded weapon (or tool intended to be wielded as a weapon). Another challenge is to win the game without using such a wielded weapon. You are still permitted to throw, fire, and kick weapons; use a wand, spell, or other type of item; or fight with your hands and feet.

In SLASH'EM, a pacifist refuses to cause the death of any other monster (i.e. if you would get experience for the death). This is a particularly difficult challenge, although it is still possible to gain experience by other means.

An illiterate character cannot read or write. This includes reading a scroll, spellbook, fortune cookie message, or t-shirt; writing a scroll; or reading (or making) an engraving of anything other than a single "x" (the traditional signature of an illiterate person). Reading any item that is absolutely necessary to win the game is not counted against this conduct. The identity of scrolls and spellbooks (and knowledge of spells) in your starting inventory is assumed to be learned from your teachers prior to the start of the game and isn't counted.

There are several other minor challenges. It is possible to eliminate a species of monsters by genocide; playing without this feature is considered a challenge. You can change the form of any object into another object of the same type ("polypiling") or the form of your own body into another creature ("polyself") by wand, spell, or potion of polymorph; avoiding these effects are each considered challenges. Finally, you may sometimes receive wishes; a game without an attempt to wish for an object is a challenge, as is a game without wishing for an artifact (even if the artifact immediately disappears).

9. Options

Due to variations in personal tastes and conceptions of how SLASH'EM should do things, there are options you can set to change how SLASH'EM behaves.

9.1. Setting the options

Options may be set in a number of ways. Within the game, the 'O' command allows you to view all options and change most of them. You can also set options automatically by placing them in the SLASHEMOPTIONS environment variable or in a configuration file. Some versions of SLASH'EM also have front-end programs that allow you to set options before starting the game.

9.2. Using the SLASHEMOPTIONS environment variable

The SLASHEMOPTIONS variable is a comma-separated list of initial values for the various options. Some can only be turned on or off. You turn one of these on by adding the name of the option to the list, and turn it off by typing a '!' or "no" before the name. Others take a character string as a value. You can set string options by typing the option name, a colon or equals sign, and then the value of the string. The value is terminated by the next comma or the end of string.

For example, to set up an environment variable so that "autoquiver" is on, "autopickup" is off, the name is set to "Blue Meanie", and the fruit is set to "papaya", you would enter the command

% setenv SLASHEMOPTIONS "autoquiver,\!autopickup,name:Blue Meanie,fruit:papaya"

in csh (note the need to escape the ! since it's special to the shell), or

\$ SLASHEMOPTIONS="autoquiver,!autopickup,name:Blue Meanie,fruit:papaya" \$ export SLASHEMOPTIONS

in sh or ksh.

9.3. Using a configuration file

Any line in the configuration file starting with "OPTIONS=" may be filled out with options in the same syntax as in SLASHEMOPTIONS. Any line starting with "DUNGEON=", "EFFECTS=", "MONSTERS=", "OBJECTS=", or "TRAPS=" is taken as defining the corresponding **dungeon**, **effects**, **monsters**, **objects** or **traps** option in a different syntax, a sequence of decimal numbers giving the character position in the current font to be used in displaying each entry. Such a sequence can be continued to multiple lines by putting a "\" at the end of each line to be continued. Any line starting with "TILESET=" defines a tile set in the same syntax as in SLASHEMOPTIONS (although the options are different). See the section on tile sets, below, for more information. Any line starting with "#" is treated as a comment.

The default name of the configuration file varies on different operating systems, but SLASHEMOPTIONS can also be set to the full name of a file you want to use (possibly preceded by an '@').

9.4. Customization options

Here are explanations of what the various options do. Character strings that are too long may be truncated. Some of the options listed may be inactive in your dungeon.

align Your starting alignment (align:lawful, align:neutral, or align:chaotic). You may specify just the first letter. The default is to randomly pick an appropriate alignment. Cannot be set with the 'O' command.

autopickup

Automatically pick up things onto which you move (default on).

autoquiver

This option controls what happens when you attempt the 'f' (fire) command with an empty quiver. When true, the computer will fill your quiver with some suitable weapon. Note that it will not take into account the blessed/cursed status, enchantment, damage, or quality of the weapon; you are free to manually fill your quiver with the 'Q' command instead. If no weapon is found or the option is false, the 't' (throw) command is executed instead. (default false)

BIOS

Use BIOS calls to update the screen display quickly and to read the keyboard (allowing the use of arrow keys to move) on machines with an IBM PC compatible BIOS ROM (default off, OS/2, PC, and ST SLASH'EM only).

catname

Name your starting cat (ex. "catname:Morris"). Cannot be set with the 'O' command.

character

Pick your type of character (ex. "character:Monk"); synonym for "role". See "name" for an alternate method of specifying your role. Normally only the first letter of the value is examined; the string "random" is an exception.

checkpoint

Save game state after each level change, for possible recovery after program crash (default on).

checkspace

Check free disk space before writing files to disk (default on). You may have to turn this off if you have more than 2 GB free space on the partition used for your save and level files. Only applies when MFLOPPY was defined during compilation.

color

Use color for different monsters, objects, and dungeon features (default on for microcomputers).

confirm

Have user confirm attacks on pets, shopkeepers, and other peaceable creatures (default on).

DECgraphics

Use a predefined selection of characters from the DEC VT-xxx/DEC Rainbow/ANSI line-drawing character set to display the dungeon/effects/traps instead of having to define a full graphics set yourself (default off). This option also sets up proper handling of graphics characters for such terminals, so you should specify it when appropriate even if you override the selections with your own graphics strings.

disclose

Offer to disclose various information when the game ends (default all). The possibilities are identifying your inventory ('i'), disclosing your attributes ('a'), summarizing monsters that have been vanquished ('v'), and listing monster species that have been genocided ('g'), and displaying your conduct ('c'). Note that the vanquished monsters list includes all monsters killed by traps and each other as well as by you.

dogname

Name your starting dog (ex. "dogname:Fang"). Cannot be set with the 'O' command.

dungeon

Set the graphics symbols for displaying the dungeon (default "|------||.-|+##.##<><>_|\\##{}.}..###}"). The **dungeon** option should be followed by a string of 1-42 characters to be used instead of the default map-drawing characters. The dungeon map will use the characters you specify instead of the default symbols, and default symbols for any you do not specify. Remember that you may need to escape some of these characters on a command line if they are special to your shell.

Note that SLASH'EM escape-processes this option string in conventional C fashion. This means that '\' is a prefix to take the following character literally. Thus '\' needs to be represented as '\\'. The special escape form '\m' switches on the meta bit in the following character, and the '' prefix causes the following character

to be treated as a control character.

The order of the symbols is: solid rock, vertical wall, horizontal wall, upper left corner, upper right corner, lower left corner, lower right corner, cross wall, upward T wall, downward T wall, leftward T wall, rightward T wall, no door, vertical open door, horizontal open door, vertical closed door, horizontal closed door, iron bars, tree, floor of a room, dark corridor, lit corridor, stairs up, stairs down, ladder up, ladder down, altar, grave, throne, kitchen sink, toilet, fountain, pool or moat, ice, lava, vertical lowered drawbridge, horizontal lowered drawbridge, vertical raised drawbridge, horizontal raised drawbridge, air, cloud, under water.

You might want to use '+' for the corners and T walls for a more aesthetic, boxier display. Note that in the next release, new symbols may be added, or the present ones rearranged.

Cannot be set with the 'O' command.

effects

Set the graphics symbols for displaying special effects (default "|-|/|*!|)(0#@*/-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\||||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\||||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-//-\|||\-/-\|||\-/-\|||\-/-\|||\-/-\|||\-/-\||\-/-\|||\-/-\|||\-/-\|||\-

The order of the symbols is: vertical beam, horizontal beam, left slant, right slant, digging beam, camera flash beam, left boomerang, right boomerang, four glyphs giving the sequence for magic resistance displays, the eight surrounding glyphs for swallowed display, nine glyphs each for magical, fire, cold, death, lightning, poison and acid explosions. An explosion consists of three rows (top, middle, and bottom) of three characters. The explosion is centered in the center of this 3 by 3 array.

Note that in the next release, new symbols may be added, or the present ones rearranged.

Cannot be set with the 'O' command.

eight_bit_tty

Pass eight-bit character values (for example, specified with the **traps** option) straight through to your terminal (default off). Only applies to the tty port.

extmenu

Changes the extended commands interface to pop-up a menu of available commands. It is keystroke compatible with the traditional interface except that it does not require that you hit Enter. It is implemented only by the tty port (default off), when the game has been compiled to support tty graphics.

female

An obsolete synonym for "gender:female". Cannot be set with the 'O' command.

fixinv An object's inventory letter sticks to it when it's dropped (default on). If this is off, dropping an object shifts all the remaining inventory letters.

fruit Name a fruit after something you enjoy eating (ex. "fruit:mango") (default "slime mold"). Basically a nostalgic whimsy that SLASH'EM uses from time to time. You should set this to something you find more appetizing than slime mold. Apples, oranges, pears, bananas, and melons already exist in SLASH'EM, so don't use those.

gender

Your starting gender (gender:male or gender:female). You may specify just the first letter. Although you can still denote your gender using the "male" and "female" options, the "gender" option will take precedence. The default is to randomly pick an appropriate gender. Cannot be set with the 'O' command.

ghoulname

Name your starting ghoul (ex. "ghoulname:Casper"). Cannot be set with the 'O' command.

help If more information is available for an object looked at with the '/' command, ask if you want to see it (default on). Turning help off makes just looking at things faster, since you aren't interrupted with the "More info?"

prompt, but it also means that you might miss some interesting and/or important information.

hilite_pet

Visually distinguish pets from similar animals (default off). In text windowing, use text highlighting when color is turned off; with X11 and Qt interfaces in tile mode, display a heart symbol near pets. In the GTK interface in tile mode, display a red box around the pet.

horsename

Name your starting horse (ex. "horsename:Trigger"). Cannot be set with the 'O' command.

IBMgraphics

Use a predefined selection of IBM extended ASCII characters to display the dungeon/effects/traps instead of having to define a full graphics set yourself (default off). This option also sets up proper handling of graphics characters for such terminals, so you should specify it when appropriate even if you override the selections with your own graphics strings.

ignintr

Ignore interrupt signals, including breaks (default off).

invweight

Display the weights of items in your inventory (and at other times) in braces (default off).

keep savefile

Keeps the save file after restore. SLASH'EM usually deletes your savefile after you restore, making death permanent. This option can allow you to restore from the last save. (default off).

legacy

Display an introductory message when starting the game (default on).

lit corridor

Show corridor squares seen by night vision or a light source held by your character as lit (default off).

mail

Enable mail delivery during the game.

male

An obsolete synonym for "gender:male". Cannot be set with the 'O' command.

menustyle

Controls the interface used when you need to choose various objects (in response to the Drop command, for instance). The value specified should be the first letter of one of the following: traditional, combination, partial, or full. Traditional was the only interface available for earlier versions; it consists of a prompt for object class characters, followed by an object-by-object prompt for all items matching the selected object class(es). Combination starts with a prompt for object class(es) of interest, but then displays a menu of matching objects rather than prompting one-by-one. Partial skips the object class filtering and immediately displays a menu of all objects. Full displays a menu of object classes rather than a character prompt, and then a menu of matching objects for selection.

menu_deselect_all

Menu character accelerator to deselect all items in a menu. Implemented by the X11, GTK and tty ports. Default '-'.

menu_deselect_page

Menu character accelerator deselect all items on this page of a menu. Implemented only by the tty port. Default '\'.

menu_first_page

Menu character accelerator to jump to the first page in a menu. Implemented only by the tty port. Default '^'.

menu_invert_all

Menu character accelerator to invert all items in a menu. Implemented by the X11, GTK and tty ports. Default '@'.

$menu_invert_page$

Menu character accelerator to invert all items on this page of a menu. Implemented only by the tty port.

Default '~'.

menu last page

Menu character accelerator to jump to the last page in a menu. Implemented only by the tty port. Default '|'.

menu next page

Menu character accelerator to goto the next menu page. Implemented only by the tty port. Default '>'.

menu_on_esc

Make the ESC key a synonym for the "' (main menu) command (default on).

menu previous page

Menu character accelerator to goto the previous menu page. Implemented only by the tty port. Default '<'.

menu search

Menu character accelerator to search for a menu item. Implemented only by the X11 port. Default ':'.

menu select all

Menu character accelerator to select all items in a menu. Implemented by the X11, GTK and tty ports. Default '.'.

menu_select_page

Menu character accelerator to select all items on this page of a menu. Implemented only by the tty port. Default ','.

monsters

Set the characters used display monster classes (default to "abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ@ '&;;"]"). This string is subjected to the same processing as the **dungeon** option. The order of the symbols is ant or other insect, blob, cockatrice, dog or other canine, eye or sphere, feline, gremlin, humanoid, imp or minor demon, jelly, kobold, leprechaun, mimic, nymph, orc, piercer, quadruped, rodent, spider, trapper or lurker above, horse or unicorn, vortex, worm, xan or other mythical/fantastic insect, light, Zouthern aminal, angelic being, bat or bird, centaur, dragon, elemental, fungus or mold, gnome, giant humanoid, invisible monster, jabberwock, Keystone Kop, lich, mummy, naga, ogre, pudding or ooze, quantum mechanic, rust monster, snake, troll, umber hulk, vampire, wraith, xorn, yeti or ape or other large beast, zombie, human, ghost, golem, demon, sea monster, lizard, long worm tail, and mimic. Cannot be set with the 'O' command.

msghistory

The number of top line messages to save (and recall with ^P) (default 20). Cannot be set with the 'O' command.

name

Set your character's name (defaults to your user name). You can also set your character's role by appending a dash and one or more letters of the role (that is, by suffixing one of -A -B -C -F -H -I -K -M -N -P -Ra -Ro -S -T -U -V -W -Y). If -@ is used for the role, then a random one will be automatically chosen. Cannot be set with the 'O' command.

news

Read the SLASH'EM news file, if present (default on). Since the news is shown at the beginning of the game, there's no point in setting this with the 'O' command.

null

Send padding nulls to the terminal (default off).

number_pad

Use the number keys to move instead of [yuhjklbn] (default off).

objects

Set the characters used to display object classes (default "])[="(%!?+/\$*'0_."). This string is subjected to the same processing as the **dungeon** option. The order of the symbols is illegal-object (should never be seen), weapon, armor, ring, amulet, tool, food, potion, scroll, spellbook, wand, gold, gem or rock, boulder or statue, iron ball, chain, and venom. Cannot be set with the 'O' command.

packorder

Specify the order to list object types in (default "")[%?+!=/(*'0_"). The value of this option should be a string containing the symbols for the various object types. Any omitted types are filled in at the end from the previous order.

perm_invent

If true, always display your current inventory in a window. This only makes sense for windowing system interfaces that implement this feature.

pettype

Specify the type of your initial pet, if you are playing a character class that uses multiple type of pets. Possible values are "cat" and "dog". Cannot be set with the 'O' command.

pickup_burden

When you pick up an item that would exceed this encumbrance level (Unburdened, Burdened, streSsed, straiNed, overTaxed, or overLoaded), you will be asked if you want to continue. (Default 'S').

pickup_types

Specify the object types to be picked up when **autopickup** is on. Default is all types.

prayconfirm

Prompt for confirmation before praying (default on).

preload_tiles

For the protected mode MSDOS version, control whether tiles get pre-loaded into RAM at the start of the game. Doing so enhances performance of the tile graphics, but uses more memory. (default on). Cannot be set with the 'O' command.

pushweapon

Using the 'w' (wield) command when already wielding something pushes the old item into your secondary weapon slot (default off).

race Selects your race (for example, "race:human"). Default is random. Cannot be set with the 'O' command.

radar Display a radar (overview) map, useful when using large tiles. Implemented only by the GTK port (default off).

rawio

Force raw (non-cbreak) mode for faster output and more bulletproof input (MS-DOS sometimes treats 'P' as a printer toggle without it) (default off). Note: DEC Rainbows hang if this is turned on. Cannot be set with the 'O' command.

rest on space

Make the space bar a synonym for the '.' (rest) command (default off).

role

Pick your type of character (ex. "role:Samurai"); synonym for "character". See "name" for an alternate method of specifying your role. Normally only the first letter of the value is examined; 'r' is an exception with "Rogue", "Ranger", and "random" values.

safe_pet

Prevent you from (knowingly) attacking your pets (default on).

scoresControl what parts of the score list you are shown at the end (ex. "scores:5 top scores/4 around my score/own scores"). Only the first letter of each category ('t', 'a', or 'o') is necessary.

showexp

Show your accumulated experience points on bottom line (default off).

showscore

Show your approximate accumulated score on bottom line (default off).

showdmg

Show damage inflicted/damage received (default off).

showweight

Show total weight in inventory on bottom line (default off).

silent

Suppress terminal beeps (default on).

sortpack

Sort the pack contents by type when displaying inventory (default on).

standout

Boldface monsters and "--More--" (default off).

suppress_alert

This option may be set to a SLASH'EM version level to suppress alert notification messages about feature changes for that and prior versions (ex. "suppress_alert:0.0.6").

tiles This option may be set to the name of a tile set to use, or specified as "notiles" to disable the use of tiles. Not all windowing interfaces support this option. The tile set named must also be defined. See the section on tile sets for more information on that.

time

Show the elapsed game time in turns on bottom line (default off).

timed_delay

When pausing momentarily for display effect, such as with explosions and moving objects, use a timer rather than sending extra characters to the screen. (Applies to "tty" interface only; "X11" and "GTK" interfaces always uses a timer based delay. The default is on if configured into the program.)

tombstone

Draw a tombstone graphic upon your death (default on).

toptenwin

Put the ending display in a SLASH'EM window instead of on stdout (default off). Setting this option makes the score list visible when a windowing version of SLASH'EM is started without a parent window, but it no longer leaves the score list around after game end on a terminal or emulating window.

traps Set the graphics symbols for displaying traps (default "……"). The **traps** option should be followed by a string of 1-22 characters to be used instead of the default traps characters. This string is subjected to the same processing as the **dungeon** option.

The order of the symbols is: arrow trap, dart trap, falling rock trap, squeaky board, bear trap, land mine, rolling boulder trap, sleeping gas trap, rust trap, fire trap, pit, spiked pit, hole, trap door, teleportation trap, level teleporter, magic portal, web, statue trap, magic trap, anti-magic field, polymorph trap.

Cannot be set with the 'O' command.

verbose

Provide more commentary during the game (default on).

videocolors

Set the color palette for PC systems using NO_TERMS (default 4-2-6-1-5-3-15-12-10-14-9-13-11). The order of colors is red, green, brown, blue, magenta, cyan, bright.white, bright.red, bright.green, yellow, bright.blue, bright.magenta, and bright.cyan. Cannot be set with the 'O' command.

videoshades

Set the intensity level of the three gray scales available (default dark normal light, PC SLASH'EM only). If the game display is difficult to read, try adjusting these scales; if this does not correct the problem, try !color. Cannot be set with the 'O' command.

windowtype

Select which windowing system to use, such as "tty" or "X11" (default depends on version). Cannot be set with the 'O' command.

wolfname

Name your starting wolf (ex. "wolfname:Beast"). Cannot be set with the 'O' command.

9.5. Tile sets

For those windowing ports which support tiles (multicolored pictures instead of the traditional characters), tile sets can be defined using a line in the configuration file that begins "TILESET=". There should be one tile set definition line for each available tile set. Once defined, tile sets can be selected for initial display (using the tiles option) or dynamically selected during the game (for those windowing ports that support this).

A "TILESET" line has the same syntax as an "OPTION" line but with the following options available:

name The name of the tile set (for selection). This can be any string of characters excluding the comma. It must be specified.

file The name of the file which contains the tile set. This must be specified.

transparent

Marks a tile set as being transparent (as opposed to opaque). Transparent tile sets allow eg., monsters to be displayed on top of the background. Tile sets must be designed to be used in this way in order to achieve meaningful results. This option is ignored by windowing ports which do not support transparency.

pseudo3D

Marks a tile set as being designed for use with Mitsuhiro Itakura's pseudo-3D display algorithm. They are assumed to have an offset-X value equal to one third of the total tile width and an offset-Y value equal to one half of the total tile height. Such tile sets are not compatible with standard tile sets and while amusing effects can be created by setting this option incorrectly, nothing useful can be achieved. Windowing ports that do not support pseudo-3D display will ignore tile sets with this option set.

9.6. Configuring SLASH'EM for Play by the Blind

SLASH'EM can be set up to use only standard ASCII characters for making maps of the dungeons. This makes the MS-DOS versions of SLASH'EM completely accessible to the blind who use speech and/or Braille access technologies. Players will require a good working knowledge of their screen-reader's review features, and will have to know how to navigate horizontally and vertically character by character. They will also find the search capabilities of their screen-readers to be quite valuable. Be certain to examine this Guidebook before playing so you have an idea what the screen layout is like. You'll also need to be able to locate the PC cursor. It is always where your character is located. Merely searching for an @-sign will not always find your character since there are other humanoids represented by the same sign. Your screen-reader should also have a function which gives you the row and column of your review cursor and the PC cursor. These co-ordinates are often useful in giving players a better sense of the overall location of items on the screen.

While it is not difficult for experienced users to edit the **defaults.nh** file to accomplish this, novices may find this task somewhat daunting. Included in all official distributions of SLASH'EM is a file called **NHAccess.nh**. Replacing **defaults.nh** with this file will cause the game to run in a manner accessible to the blind. After you have gained some experience with the game and with editing files, you may want to alter settings to better suit your preferences. Instructions on how to do this are included in the **NHAccess.nh** file itself. The most crucial settings to make the game accessible are:

IBMgraphics

Disable IBM graphics by commenting out this option.

menustyle:traditional

This will assist in the interface to speech synthesizers.

number_pad

A lot of speech access programs use the number-pad to review the screen. If this is the case, turn off the number_pad option and use the traditional Rogue-like commands.

Character graphics

Comment out all character graphics sets found near the bottom of the **defaults.nh** file. Most of these replace **SLASH'EM**'s default representation of the dungeon using standard ASCII characters with fancier characters

from extended character sets, and these fancier characters can annoy screen-readers.

10. Scoring

SLASH'EM maintains a list of the top scores or scorers on your machine, depending on how it is set up. In the latter case, each account on the machine can post only one non-winning score on this list. If you score higher than someone else on this list, or better your previous score, you will be inserted in the proper place under your current name. How many scores are kept can also be set up when SLASH'EM is compiled.

Your score is chiefly based upon how much experience you gained, how much loot you accumulated, how deep you explored, and how the game ended. If you quit the game, you escape with all of your gold intact. If, however, you get killed in the Mazes of Menace, the guild will only hear about 90% of your gold when your corpse is discovered (adventurers have been known to collect finder's fees). So, consider whether you want to take one last hit at that monster and possibly live, or quit and stop with whatever you have. If you quit, you keep all your gold, but if you swing and live, you might find more.

If you just want to see what the current top players/games list is, you can type **slashem -s all** on most versions.

11. Explore mode

SLASH'EM is an intricate and difficult game. Novices might falter in fear, aware of their ignorance of the means to survive. Well, fear not. Your dungeon may come equipped with an "explore" or "discovery" mode that enables you to keep old save files and cheat death, at the paltry cost of not getting on the high score list.

There are two ways of enabling explore mode. One is to start the game with the **-X** switch. The other is to issue the 'X' command while already playing the game. The other benefits of explore mode are left for the trepid reader to discover.

12. Credits

The original *hack* game was modeled on the Berkeley UNIX *rogue* game. Large portions of this paper were shamelessly cribbed from *A Guide to the Dungeons of Doom*, by Michael C. Toy and Kenneth C. R. C. Arnold. Small portions were adapted from *Further Exploration of the Dungeons of Doom*, by Ken Arromdee.

SLASH'EM is the product of literally dozens of people's work. Main events in the course of the game development are described below:

Jay Fenlason wrote the original Hack, with help from Kenny Woodland, Mike Thome and Jon Payne.

Andries Brouwer did a major re-write, transforming Hack into a very different game, and published (at least) three versions (1.0.1, 1.0.2, and 1.0.3) for UNIX machines to the Usenet.

Don G. Kneller ported Hack 1.0.3 to Microsoft C and MS-DOS, producing PC HACK 1.01e, added support for DEC Rainbow graphics in version 1.03g, and went on to produce at least four more versions (3.0, 3.2, 3.51, and 3.6).

R. Black ported PC HACK 3.51 to Lattice C and the Atari 520/1040ST, producing ST Hack 1.03.

Mike Stephenson merged these various versions back together, incorporating many of the added features, and produced NetHack 1.4. He then coordinated a cast of thousands in enhancing and debugging NetHack 1.4 and released NetHack versions 2.2 and 2.3.

Later, Mike coordinated a major rewrite of the game, heading a team which included **Ken Arromdee**, **Jean-Christophe Collet**, **Steve Creps**, **Eric Hendrickson**, **Izchak Miller**, **John Rupley**, **Mike Threepoint**, and **Janet Walz**, to produce NetHack 3.0c.

NetHack 3.0 was ported to the Atari by **Eric R. Smith**, to OS/2 by **Timo Hakulinen**, and to VMS by **David Gentzel**. The three of them and **Kevin Darcy** later joined the main development team to produce subsequent revisions of 3.0.

Olaf Seibert ported NetHack 2.3 and 3.0 to the Amiga. **Norm Meluch, Stephen Spackman** and **Pierre Martineau** designed overlay code for PC NetHack 3.0. **Johnny Lee** ported NetHack 3.0 to the Macintosh. Along with various other Dungeoneers, they continued to enhance the PC, Macintosh, and Amiga ports through the later revisions of 3.0.

A scant one month before the next major version release of NetHack, two adventurous souls undertook their own modification to the sacred NetHack formula. **Tom Proudfoot** and **Yuval** released Nethack++, which was rapidly renamed Nethack--, contained new monsters, items and other miscellaneous modifications.

Headed by **Mike Stephenson** and coordinated by **Izchak Miller** and **Janet Walz**, the development team which now included **Ken Arrondee**, **David Cohrs**, **Jean-Christophe Collet**, **Kevin Darcy**, **Matt Day**, **Timo Hakulinen**, **Steve Linhart**, **Dean Luick**, **Pat Rankin**, **Eric Raymond**, and **Eric Smith** undertook a radical revision of 3.0. They re-structured the game's design, and re-wrote major parts of the code. They added multiple dungeons, a new display, special individual character quests, a new endgame and many other new features, and produced NetHack 3.1.

Ken Lorber, Gregg Wonderly and Greg Olson, with help from Richard Addison, Mike Passaretti, and Olaf Seibert, developed NetHack 3.1 for the Amiga.

Norm Meluch and Kevin Smolkowski, with help from Carl Schelin, Stephen Spackman, Steve VanDevender, and Paul Winner, ported NetHack 3.1 to the PC.

Jon W{tte and Hao-yang Wang, with help from Ross Brown, Mike Engber, David Hairston, Michael Hamel, Jonathan Handler, Johnny Lee, Tim Lennan, Rob Menke, and Andy Swanson, developed NetHack 3.1 for the Macintosh, porting it for MPW. Building on their development, Barton House added a Think C port.

Timo Hakulinen ported NetHack 3.1 to OS/2. **Eric Smith** ported NetHack 3.1 to the Atari. **Pat Rankin**, with help from **Joshua Delahunty**, was responsible for the VMS version of NetHack 3.1. **Michael Allison** ported NetHack 3.1 to Windows NT.

Dean Luick, with help from **David Cohrs**, developed NetHack 3.1 for X11. **Warwick Allison** wrote a tiled version of NetHack for the Atari; he later contributed the tiles to the DevTeam and tile support was then added to other platforms.

Time passed, and Nethack-- was ported to 3.11 by **Chris**.

Stephen White then released his own modification known as Nethack Plus, which contained new character classes. Unbeknownst to the world at large, **Tom Proudfoot** took this source and combined it with his Nethack--. **Stephen White** went on to add weapon skills, which were eventually integrated into the next version of Nethack, and other features.

In February 1996, **Tom Proudfoot** released SLASH V1. Including part of **Stephen White**'s Nethack Plus and his own Nethack--, leaving unmentioned his own slew of further modifications, this is perhaps the best known of the Nethack modifications. Six versions of this, ending with SLASH V6, are known to exist.

The 3.2 development team, comprised of Michael Allison, Ken Arromdee, David Cohrs, Jessie Collet, Steve Creps, Kevin Darcy, Timo Hakulinen, Steve Linhart, Dean Luick, Pat Rankin, Eric Smith, Mike Stephenson, Janet Walz, and Paul Winner, released version 3.2 in April of 1996.

Version 3.2 marked the tenth anniversary of the formation of the development team. In a testament to their dedication to the game, all thirteen members of the original development team remained on the team at the start of work on that release. During the interval between the release of 3.1.3 and 3.2, one of the founding members of the development team, **Dr. Izchak Miller**, was diagnosed with cancer and passed away. That release of the game was dedicated to him by the development and porting teams.

Larry Stewart-Zerba set along a different track - to enhance the spellcasting abilities of the Wizard. Thus, in April 1996, he released version 0.1 of the Wizard Patch. By July, he was joined by **Warwick Allison** and version 0.4 of the Wizard Patch was released. The final update came in April 1997, with the release of Wizard Patch 1.0.

Warwick Allison also ported NetHack to use the Qt interface.

SLASH V6 was picked up by **Enrico Horn**, who managed to synchronize it with the 3.2 source. The new SLASH 4.1.2 was released as far back as November 1996 went through at least 4 editlevels (E5, E6, E7) with the

latest version being 4.1.2E8, synchronized with Nethack 3.2.2 and the Blackmarket option available, released in June 1997.

Nathan La began the arduous task of drawing tiles for the SLASH monsters.

Kentaro Shirakata ported SLASH 4.1.2E8 to Unix.

Lief Clennon ported SLASH 4.1.2E8 to OS/2 EMX.

Romain Dolbeau ported SLASH 4.1.2E8 to Macintosh.

Warren Cheung combined SLASH 4.1.2 and Wizard Patch to create SLASH'EM 0.1 in November 1997. Several revisions including new spells and other additions led eventually to SLASH'EM 0.0.5E7F1. **Steven Uy** generously made additional modifications.

Dirk Schoenberger continued updating the SLASH/SLASH'EM monster tiles. He also ported SLASH'EM to Linux.

Lief Clennon ported SLASH'EM to OS/2 EMX.

Kevin Hugo ported SLASH'EM to Macintosh, and also contributed additional changes and improvements.

Robin Johnson finished the arduous task of drawing tiles for the SLASH'EM monsters. He also contributed many more new tiles.

Kevin later joined the DevTeam and incorporated the best of these ideas in NetHack 3.3.

JNetHack (the Japanese version of NetHack) has been around since at least 1994, developed by Issei Numata and others. The GTK interface was written for this variant and released in 1999.

Mitsuhiro Itakura headed a team which began the process of redrawing the NetHack tiles in 8-bit color at 32x32 pixels.

The 3.3 development team consisted of Michael Allison, Ken Arromdee, David Cohrs, Jessie Collet, Steve Creps, Kevin Darcy, Timo Hakulinen, Kevin Hugo, Steve Linhart, Dean Luick, Pat Rankin, Eric Smith, Mike Stephenson, Janet Walz, and Paul Winner.

As with version 3.2, various people contributed to the game as a whole as well as supporting ports on the different platforms that NetHack runs on:

Pat Rankin maintained 3.3 for VMS.

Michael Allison maintained NetHack 3.3 for the MS-DOS platform. **Paul Winner** and **Yitzhak Sapir** provided encouragement.

Dean Luick, Mark Modrall, and Kevin Hugo maintained and enhanced the Macintosh port of 3.3.

Michael Allison maintained and enhanced 3.3 for the Microsoft Windows NT platform.

Ron Van Iwaarden took over responsibility for the OS/2 port.

The Amiga port of NetHack was resurrected for 3.3.1 by **Janne Salmijarvi**.

The Atari port of NetHack was resurrected for 3.3.1 by Christian "Marvin" Bressler.

Warren Cheung combined SLASH'EM 0.0.5E7F1 and NetHack 3.3 to create SLASH'EM 0.0.6 and continues to maintain the DOS and Microsoft Windows ports.

J. Ali Harlow incorporated the GTK interface and Mitsuhiro Itakura's 32x32 tileset into SLASH'EM 0.0.6 and maintains the UNIX port of SLASH'EM. **Peter Makholm** maintains the Debian package.

Paul Hurtley maintains the MAC port of SLASH'EM.

From time to time, some depraved individual out there in netland sends a particularly intriguing modification to help out with the game. The Gods of the Dungeon sometimes make note of the names of the worst of these miscreants in this, the list of Dungeoneers:

Adam Aronow	Irina Rempt-Drijfhout	Mike Gallop
Andy Church	Izchak Miller	Mike Passaretti
Andy Swanson	Janet Walz	Mike Stephenson
Ari Huttunen	Janne Salmijarvi	Norm Meluch
Barton House	Jean-Christophe Collet	Olaf Seibert
Benson I. Margulies	Jochen Erwied	Pat Rankin
Bill Dyer	John Kallen	Paul Winner
Boudewijn Waijers	John Rupley	Pierre Martineau
Bruce Cox	John S. Bien	Ralf Brown
		Richard Addison
Bruce Holloway Bruce Mewborne	Johnny Lee	
Carl Schelin	Jon W{tte Jonathan Handler	Richard Beigel
		Richard P. Hughey Rob Menke
Chris Russo	Joshua Delahunty	1100 1/1011110
David Cohrs	Keizo Yamamoto	Robin Johnson
David Damerell	Ken Arromdee	Roland McGrath
David Gentzel	Ken Lorber	Ron Van Iwaarden
David Hairston	Ken Washikita	Ronnen Miller
Dean Luick	Kevin Darcy	Ross Brown
Del Lamb	Kevin Hugo	Sascha Wostmann
Deron Meranda	Kevin Sitze	Scott R. Turner
Dylan O'Donnell	Kevin Smolkowski	Stephen Spackman
Eric Backus	Kevin Sweet	Stephen White
Eric Hendrickson	Lars Huttar	Steve Creps
Eric R. Smith	Mark Gooderum	Steve Linhart
Eric S. Raymond	Mark Modrall	Steve VanDevender
Erik Andersen	Marvin Bressler	Tim Lennan
Frederick Roeber	Matthew Day	Timo Hakulinen
Gil Neiger	Merlyn LeRoy	Tom Almy
Greg Laskin	Michael Allison	Tom West
Greg Olson	Michael Feir	Warren Cheung
Gregg Wonderly	Michael Hamel	Warwick Allison
Hao-yang Wang	Michael Sokolov	Yitzhak Sapir
Helge Hafting	Mike Engber	
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