FALLOUT 2 EDITOR INTRODUCTION



Here is the Fallout 2 editor, the scripts, and the script compiler. We were able to take some time and put together some documentation for it (and an installer), but a lot of it will require some trial and error. If you want to hammer away at it, well, here it is.

Some things to keep in mind:

This editor is not the holy grail. It was never meant to be released to the public. As a result, you may boot the editor up and realize that it doesn't match your expectations for a commercially-released RPG editor. You may suffer some retina burn. Perhaps a strange itching sensation. Constipation. So be prepared - you are about to experience a game editor, intended only for developers.

You use the Fallout 2 editors at your own risk. A poll was posted some time ago (<u>http://feedback.blackisle.com/forums/showthread.php?s=&threadid=51095</u>) asking if fans interested in the editors would prefer to have the editors sooner with no documentation, and the answer was an overwhelming yes, so here it is. We ended up including some documentation, anyway, so hopefully that should help the pains of easing into the editor.

You need to have Fallout 2 installed for these editors to work.

Be sure to check out the readme.txt in the Scripts folder that will be installed with the editor. It explains compiling the scripts, and some examples of how to build them using different C compilers for the preprocessor. There is also information on the Open Watcom compiler and a link for where to get it.

This is not the Fallout 2 source code. There are no plans to release the Fallout 2 source code at this time.

Be warned - various issues with the editor are listed in the "Known Problems" section of this document. Check it out before using the editors.

The Fallout 2 editors are not supported by Interplay. If you have a problem with them, do not contact customer support because they'll have no idea what you're talking about.

If you have any questions about usage of the editors, post them up on the Fallout 1 and 2 forum (<u>www.interplay.com</u>), and if we can answer them, we will. Keep in mind it has been many years since these editors have been used, and a lot of the know-how is either rusty or has been forgotten, but we'll see what we can do.

There are a number of people you should thank for the editors.

Josh Sawyer. Without Josh, you would not have the F2 editor. He brought up the idea in a meeting, and everybody nodded their head because it seemed like a good idea before we realized what a pain in the ass it would be.

Darren Monahan and Feargus Urquhart. Without Darren and Ferg, you would not have the F2 editor.

Chris Heidari. Chris Heidari took a good chunk of his time to test the editor and, as an added bonus, set up the installer to make it easier for you to use.

Scotty Everts, who put the lion's share of work in setting up the editor doc summary.

...and most of all, Chris Jones. Chris worked on getting the F2 editors together during his free time. Without Chris, you would not have the F2 editor.

Thanks and enjoy,

Chris Avellone

FALLOUT EDITOR MAP BUILDING NOTES

Introduction

The Fallout editor was originally written over six years ago. While it was updated and enhanced during Fallout 1 & 2 development, it's archaic by today's standards, and it will take a lot of patience to make maps. (Your first few will be a challenge, but it'll get a little easier with practice.) The main problem with map-building will be finding all the art pieces you want.

There are 6 different art categories; unfortunately, there are no sub-categories for each - the engine didn't support it; as new art was made, it just got added to the end of the list. So you might find a set of wall sections with pieces spread all over the art list. Fortunately there is a Bookmark command which will make it a little easier (explained below).

Also, this version includes art for Fallout 2 and reused art from Fallout 1. Any of the custom art from Fallout 1 is not included as it was originally deleted to save disc space. For those enterprising individuals that have extracted the original Fallout 1 art, you might be able to re-insert it with some work.

Initial Concepts

There are 6 basic art objects (categories) that make up a map.

- **Tiles** These are the floor and roof tiles; the basic pieces you build all your maps on. Tiles get put down as floors when "Roof" is off. "Roof" on will place tiles at the roof elevation. So any tile can be used either way.
- **Walls** Building wall sections. They come in N/S & E/W directions. All external & internal buildings are built from these.
- Scenery The detail pieces such as chairs, tables, trash, cars, etc, used to decorate and flesh out an area. Doors are in the scenery list.
- Items Inventory items for guns, stimpaks, etc. For placing on critters, containers, or ground. Containers are also listed under items.
- **Critters** Your people and monsters. Place them and attach scripts to make them interact in your environment.
- **Misc** All the odd stuff like projectile graphics and such. Exit Grid sections are part of the Misc list.

Place an object by Right-Clicking on art object bar (see screenshot below for reference in the following directions). Then Left-Click where you want it on the map.

To select a placed object, Left-Click on it. There is no highlight but the selected object's name will appear in the Lower right info screen. Sometimes you might have to click it a few times to get it to

select. You can also move the object around. Hold down the left mouse button while selecting and you can drag to a new location.

Menu Bar - The menu bar is hidden until you move the cursor to the top of the screen.

Bookmarks - You can set a bookmark in each art object category. The 1-9 keys can be assigned to any location on the art list, and each category can have its own set. To do this, move to a location on the art object bar. Select the Menu "Tools/Set Bookmark." Then just press the number key you want that location to be assigned to.

Each map can have 3 map levels. Use the Up/Down arrows on the lower left side of the edit screen to switch levels. This is used for similar levels like dungeons so you don't have to wait for a new map to load when switching levels.

The "**H**" key will toggle hexes on and off. A Hex filled in red is *blocked* and no PC or NPC can enter it. Most walls and scenery are set to Blocking on. Sometimes when laying out walls or scenery, there will be holes, which can result in embarrassing firefights in towns with enemies shooting you through these holes in the walls without you realizing it. Blocking hexes are explained in more detail below.

The "**F8**" key will switch the editor into "Game" mode. You can walk your character around the map and check holes in walls, or how scroll blocking is working, etc. This is the best key in the universe.

The "F12" key will take a screenshot. You do not have to be in game mode - you can take screenshots at any time while you are in the editor, compiling information on weapons, ammo, critter stats, and so on.

Basic Editor Functions



- 1. Art Categories You can use F1-F6 to jump between them instead of using the menu.
- 2. **Hex Number** The number of the map hex you are placing an art object. This is helpful for telling a scripter which of the 34+ hookers on a map you need a special script attached to, as well as laying boundaries for certain scripts.
- 3. Art Object Number The number of the art object in position one of the Art Object Bar.
- 4. Art Object Bar Shows the art objects of the selected category. Double Arrows scroll by page, single arrow one at a time. Right-Click to select one. Left-Click to place on map. "Plus" and "Minus" keys scroll through the list. "Shift" scrolls by page.
- 5. **Map Level** You can have up to three maps in one file. Helps save on load times for dungeons or building interiors.
- 6. Art Object Toggles Toggles the different categories of art objects on and off. Roofs are default to "off." To lay roof tiles you need toggle on. Remember to Toggle roof tiles off to lay

ground tiles again. "R" key is a quick key for doing this. "Top Down" button is non-functional - it was a feature that was never implemented.

7. **Critter Object Rotation** - To select which way a critter is facing when placed. If your super mutants are always getting placed down with their asses facing you, check the critter object rotation and change it until they're facing the right direction.

8. Object Functions -

- "Copy" will copy selected elements of the art object group you are currently in. If you are in the Tiles category, only tiles will be copied, etc. Drag the box to select the copied elements. You can stamp the selected group anywhere you like. Right click to clear.
- "Copy All" functions like Copy but will copy everything selected including tiles, critters, scenery, etc. Great fun at parties.
- "Edit" is for changing attributes of the selected object.
- "Delete" will permanently remove the selected object.
- 9. Info Screen- Lists art object names and other status info.
- 10. **Cursor** Changes based on mode or function.
- 11. Hidden Menu Bar Appears when cursor is moved to top of screen.

Menu Bar

File-

Standard Load, Save, Quit menu. You know the deal.

Tools-

- "Create Pattern" / "Use Pattern" Allows you to set Tile patterns and place them. Making new patterns doesn't seem to work. "Use Pattern" has a list of various pre-made patterns to make it easier to layout ground and floors. Select one off the list. You can now stamp that pattern down. The "Plus" & "Minus" keys change the size of the stamp. Right-Click to exit Pattern mode.
- "Move Map" Allows you to shift the map. In case you run out of space on an edge, this allows you to move the whole map around to re-center it. The arrow keys should shift it but there was some trouble getting this function to work.
- "Move Map Elevation" Moves the whole map to another map level.
- "Copy Map Elevation" Copies the whole map to another map level. If you are building two similar levels, this will save time from having to recreate most of the previous level.

Note: There seems to be a problem when using the "Copy Map Elevation" function. Trying to copy a level to another map/elevation level, the editor will crash to the desktop with a generic "Program error" message. Hell, it may work for you, but it wasn't working for us.

- "Toggle Block Object View" There are various invisible blocker objects used to block or restrict movement and screen scrolling. This menu option toggles them visible in the editor so you can edit and move them they are never visible in-game, otherwise you would have one surreal Fallout game on your hands. Many times when placing art, there will be holes in walls or scenery. These blockers are used to fill in those holes so the PC or NPC's don't walk (or shoot) through areas of the map that they aren't supposed to. Check out some of the Fallout 2 maps for examples of where they are used, and you'll see what we mean.
 - Wall Blocker Dark Green "W." Blocks movement. Shows up as Wall (Light Green) on in-game Map. Comes in two versions, but it appears only the one labeled "Wall S.T." is used. (Walls category, tile#621)
 - Secret Blocking Hex Light Green "S." Blocks movement. Shows up as Scenery (Dark Green) on in-game Map. (Scenery category, tile#66)
 - Block Hex Auto Inviso Yellow "SAI." Blocks movement. Invisible on in-game Map. Used to block out areas of a map that you don't want to show up on the in-game map. (Scenery category, tile#343)
 - Light Source Green "Yellow Sun symbol." Does not block movement. Places light source in hex. Light can be adjusted by using "Edit." (Scenery category, tile#140)
 - Exit Grid Map Marker Blue "EG." Special markers that display in Tan on the in-game map. Used to indicate where Exit Grids are. (Scenery category, tile#48)
 - Scroll Blocker White "S." A special marker that restricts screen scrolling. When the center of the screen hits a row or column of these, the screen will no longer scroll any farther. Used to define the edge of a map. Please note the scroll blocking works both ways. If your character somehow gets outside the edge, you will not be able to scroll inside the map area. (Misc. category, tile#11)

Many of these blockers were designed to work with the in-game map. The in-game map shows objects in the Wall category in bright green. Scenery objects in dark green. To keep the in-game map useful the different shades were used to make buildings stand out from the scenery. So when placing blocking hexes, use wall blockers for filling in holes in walls, and scenery blockers to fill in holes in scenery. The inviso blockers work well for blocking large areas like lakes, rad goo, etc. that you don't want to show up on the in-game map.

• Exit Grid Options - Exit Grids are the brown and green dithered areas that are used to warp the player to a new map. The art for the dithered pattern is in the Misc. category. Green is used for transitions between maps or map levels, and brown is used for transitions to the World Map. (There is also a black grid, but it's unused in the game.) You will notice that when placing grid pieces, there is a hotpoint for each that shows up light blue when Hexes are visible. That blue hex is important - for exit grids to work, the player must move across that hex. So when laying down a series of Exit Grids, make sure the grid hotpoint is facing towards where the player is entering from. And make sure an uninterrupted line of them is placed so a character always has to cross one to reach the Exit Grid.

- Set Exit Grid Data Sets the Exit grid data. After setting the data, you will mark the Exit Grid objects with the other two options. Entering -1 in "Exit Grid Dest Map" option will send the player to the World Map.
- Mark Exit Grids This will put you into a mode where you can mark exit grids to what you entered in the above command. Clicking each Exit Grid piece will mark it. Press "ESC" to exit this mode. Please note there is no indication you are in this mode. Other functions may not work until you exit this mode.
- Mark All Exit Grids This will mark ALL exit grids on the map to what was set in "Set Exit Grid Data". It will override whatever you previously set.
- Clear Map Level Erases all objects from the map.

The remaining options are script related and are not covered in this document.

Known Problems with the Editor

The following problems exist with the editor:

- Mapper will crash if the user tries to show map script after having canceled out of setting a map script. To repeat, go to Scripts -> Set Map Script. Press ESC twice to cancel out of menu. Now try to show the map script by going to Scripts -> Show Map Script. At this point the mapper will crash to the desktop.
- You may encounter sporadic problems while going through and loading up all the maps after awhile, maps may load in being completely engulfed in blackness. Moving the screen or cursor around would eventually make the blackness go away.
- Occasionally if you Alt-Tab out of the editor, the taskbar entry for the editor will disappear even though the Alt-Tab list still shows the program as running. As a warning, Alt-Tab seems to screw with the editor a bit.
- There is a problem when using the "Copy Map Elevation" function. Trying to copy a level to another map/elevation level, the editor will crash to the desktop with a generic "Program error" message.

Script Commands for the Editor

The following was a list of potential script commands that may prove useful for programmers and scripters out there in the fan community who are trying to decipher what does what. I do not know what the gray-shaded definition blocks mean, but it could be significant as you're tearing through the guts of these commands. Maybe gray-shaded means these commands are diseased. Or don't work. Or got cut. Explore and find out, or wait for Red! and some crazy Team X Russians to figure it out.

action hoing used	Returns the current skill () being used on a script object.
action_being_used	Keturns the current skin () being used on a script object.
int Script	Adds on chiest (item) to enother chiest's (who's) inventory. Note that
add_obj_to_inven	Adds an object (item) to another object's (who's) inventory. Note that
void Inven	this only works with objects of type Item.
who (ObjectPtr)	
item (ObjectPtr)	
add_mult_objs_to_inv	Adds (count) instances of an object (item) to another object's (who's)
en	inventory. Note that this only works with objects of type Item.
void Inven	
who (ObjectPtr)	
item (ObjectPtr)	
count (int)	
add_timer_event	Adds a timed event call to the queue, at a given time offset, to call an
void Meta(Time)	object's (obj) script. Info is used to let scripts differentiate between
obj (ObjectPtr)	timed event calls so that they can be hooked in multiple times. Info is
time (int)	read back by the script using the fixed_param operator. Note that time is
info (int)	in ticks (you can use game_ticks(seconds_num) to get the time in ticks
	from time in seconds).
anim	Sets up a single-frame animation (anim) for the object (who) that runs in
void Anim	the given direction.
who (ObjectPtr)	
anim (int)	
direction (int)	
anim action frame	Returns the action frame of the given art frame on a given object (who).
int Anim	This can be used as the delay in an animation registration sequence.
who (ObjectPtr)	
frame (int)	
anim busy	Returns True if object (who) is currently animating, otherwise False.
int (boolean) Anim	This can be used to determine if a given object has completed an
who (ObjectPtr)	animation.
animate move obj to	Sets up an animation for a critter (who) to walk to a given tile (hex) at a
tile	given speed (speed). Speed (walk/run) can also have a flag attached (see
void Anim	define.h) to force the object (who) to stop it's current animation (for
who (ObjectPtr)	instance, if it was already walking somewhere) and then walk/run to the
tile (int)	new location (tile).
speed (int)	
animate rotation	Changes the orientation (facing) of the self-object to the given direction.
void Anim	changes the orientation (latening) of the sen-object to the given direction.
direction (0-5)	
	Sets up an animation for the self-object to RUN to a given tile (hex).
animate_run_to_tile <pre>void Anim</pre>	sets up an anniation for the sen-object to KON to a given the (liex).
tile (int)	

animate_set_frame	Changes the current animation frame of the self-object to the given
void Anim	frame # (newFrame). This can be used to make lights go to broken
newFrame (int)	lights or to alarm/siren lights, for example. Should be used in place of
	animate_stand for 2-frame anims.
animate_stand	Sets up an animation for the currently focused object (self) to run it's
void Anim	stand animation.
	This can be used to open doors, open container items (Refridgerator, for
	example) or to run a critter's fidget animation.
animate_stand_obj	Sets up an animation for an object (obj) to run it's stand animation.
void Anim	This can be used to open doors, open container items (Refridgerator, for
obj (ObjectPtr)	example) or to run a critter's fidget animation.
animate_stand_revers	Sets up an animation for the currently focused object (self) to run it's
e	stand animation in reverse. This is used only for non-critters, to cause
void Anim	them to close (close doors, open containers, etc.)
animate_stand_revers	Sets up an animation for an object (obj) to run it's stand animation in
e_obj void Anim	reverse. This is used only for non-critters, to cause them to close (close doors, open containers, etc.)
obj (ObjectPtr)	
art anim	Returns the animation that this fid represents (ANIM stand,
void Anim	ANIM pickup, etc.).
fid (int)	<i>i</i> i i i i i i i i i i i i i i i i i i
attack	Causes the focused object (self) to attempt to attack an object (who).
void Combat	Note that this is a macro to attack complex() below.
who (ObjectPtr)	Note that this is a macro to attack_complex() below.
attack complex	Causes the current object (self – must be a critter) to attempt to attack a
void Combat	critter (who) with various parameters modifying the combat:
who (ObjectPtr)	called_shot $- 0/1$ /specific means none/random/specific (head, torso,
called shot (int)	etc.)
num attacks (int)	num attacks – the $\#$ of extra attacks the self object gets before the
bonus (int)	target
min damage (int)	bonus – the bonus to hit the target on the first turn only
max damage (int)	min_damage – the minimum damage that will be done the first attack
attacker results (int)	max damage – the maximum damage that will be done the first attack
target_results (int)	attacker results – what state the attacker ends in after the first attack
	target_results – what state the target ends in after the first attack
attack_setup	Sets up an attack from who on victim, without expecting this script to
void Combat	be involved. Can be used to setup attacks on critters from the map
who (ObjectPtr)	script.
victim (ObjectPtr)	
car_current_town	Returns the current town area the car can be found at. Area #'s can be
int Map	found in scripts\headers\maps.h
car_give_to_party	Gives the car to the party, and takes them to the worldmap.
int Map	
car_give_gas	Gives the car a given amount (amount) of gas.
int Map	
amount (int)	
combat_difficulty	Returns the current Combat difficulty level of the game (defined in the
int	options screen).
combat_is_initialized	Returns True if the system is currently in combat mode, False otherwise.
int	

create_object	Creates a new object of prototype (pid), placing it at a given tile # and at
int (?) Object	a given elevation. If the prototype indicates a script should be attached,
pid (int)	then it will be.
tile_num (int)	
elev (0-2)	
create object sid	Creates a new object of prototype (pid), placing it at a given tile # and at
int (?) Object	a given elevation. If sid is not -1, then it indicates that the default script
pid (int)	should be overriden by this new script #.
tile num (int)	
elev (0-2)	
sid (int)	
critter add trait	Adds a particular trait (trait) of a given type (trait_type) to a particular
int Critter	critter (who). Possible traits under the SPECIAL system are limited to:
who (ObjectPtr)	Perks
trait type (int)	Traits
trait (int)	Object-instance information (such as team #'s, ai-packet #'s, etc.)
amount (int)	Such as team π s, al-packet π s, etc.)
· · · · ·	Attempts to place a critter at a given destination hex & elevation, if it
critter_attempt_place ment	fails, then it tries to find a nearby hex that is that is as near as possible to
	the start hex. No LONGER checks to see if the hex is visible on-screen.
int Map	the start nex. <u>No LONGER checks to see if the nex is visible on-screen.</u>
who (ObjectPtr)	
hex (int)	
elev (0-2)	
critter_damage	Inflicts damage on a critter (who) of a given amount, killing it if
void Critter	necessary.
who (ObjectPtr)	
dmg_amount (int)	
critter_heal	Heals a critter for a given amount up to maximum.
void Critter	
who (ObjectPtr)	
amount (int)	
critter_injure	Injures a given critter (who) by crippling given limbs/body parts
int Critter	(defined by DAM_CRIP_ARM_LEFT, DAM_BLIND, etc. in define.h)
who (ObjectPtr)	
how (int)	
critter_inven_obj	Returns a pointer to an object that is in a given spot (NULL if none).
(ObjectPtr)	The appropriate values for where are: INVEN_TYPE_WORN,
Critter/Inven	INVEN TYPE RIGHT HAND, and INVEN TYPE LEFT HAND.
who (ObjectPtr)	
where (int)	
critter is fleeing	Returns True if the critter object (who) has its FLEE flag set.
int Critter	, , , , , , , , , , , , , , , , , , ,
who (ObjectPtr)	
critter mod skill	Modifies a given skill in a given critter object (who) by a given amount.
int Critter	Note: this currently is only valid on the player (obj dude) object.
who (ObjectPtr)	
skill (int)	
amount (int)	

avittan um tuait	Removes a particular trait (trait) of a given type (trait type) from a
critter_rm_trait	Removes a particular trait (trait) of a given type (trait_type) from a
int Critter	particular critter (who). (See critter_add_trait.)
who (ObjectPtr)	
trait_type (int)	
trait (int)	
amount (int)	
critter_set_flee_state	Sets the FLEE flag on or off. This controls whether the critter flees
int Critter	during combat.
who (ObjectPtr)	
flee_on (Boolean)	
critter_skill_level	Returns the current skill level of a particular object's (who) skill
int Critter	(skillNum).
who (ObjectPtr)	
skillNum (int)	
critter_state	Returns the state of a given critter object (from combat data), used to
int Critter	determine if a critter is dead, unconscious, etc
who (ObjectPtr)	
critter_stop_attacking	Flags the critter object (who) as no longer wishing to be active in
int Critter	combat.
who (ObjectPtr)	
cur_map_index	Returns the index # of the current map, to be matched with the define-
int Map	constant in define.h.
cur town	Returns the index # of the current town, to be matched with the define-
int Map	constant in define.h.
days_since_visited	Returns the number of days since this map was last visited, or (-1) if it
int Map	has never been visited before.
debug_msg	Prints a string to the debug monitor. Should be used exclusively for
void Debug	debug information, instead of display_msg()!
text (string)	
destroy object	Destroys an object (obj), which will cause it's script to be called in the
int Object	destroy proc section if the object is *NOT* the calling object.
obj (ObjectPtr)	
destroy mult objs	Destroys count number of instances of an item object. This function will
int Object	figure out which inventory this item is in (if it isn't on the ground). If it
item (ObjectPtr)	is on the ground, of course, there is only one instance of this object, so
count (int)	only one will be destroyed.
dialogue reaction	Set up a reaction animation in the dialogue system.
void Dialog	
mood (int)	
dialogue system ente	Tells the dialog system that this object is requesting the talk system.
r	This is used when the script wants to start dialog instead of waiting for
void Dialog	the player to initiate it. The script will be called back in its talk proc
0	section.
difficulty level	Returns the current Game difficulty level of the game (defined in the
int	options screen).
display msg	Displays a string on the in-game PDA display (lower-left hand corner).
void	
message (string)	
message (sumg)	1

do_check	Do a check/test-roll versus one of the various basic traits (strength,
int (roll_result) Skill	perception, etc.).
who (ObjectPtr)	
check (int)	
modifier (int)	
drop obj	Causes the critter self-object to remove a given object (obj) from it's
void Inven	inventory and place it on the ground at its hex. This animates the
obj (ObjectPtr)	self obj.
drug influence	Returns True if a given critter object (who) is currently under any drug
int Critter	influences, False otherwise.
who (ObjectPtr)	
dude obj	Returns a pointer to the dude object (the player).
(ObjectOtr)	Returns a pointer to the dade object (the player).
elevation	Paturns the surrent elevation being displayed
	Returns the current elevation being displayed.
int Map	
obj (ObjectPtr)	
end_dialogue	Terminates the dialogue system.
void Dialog	
endgame_movie	Plays the endgame movie.
void Meta	
endgame_slideshow	Plays the endgame slideshow. The slideshow will fade in to its palette,
void Meta	so it is proper to call gfade_out(1) and then expect this command to fix
	the palette for you.
explosion	Sets up an explosion at a given tile number (where) on a given
int Anim	elevation, that will cause damage in a radius.
where (int)	
elevation (0-2)	
damage (int)	
fixed param	Returns the value of the scripts fixed parameter. This is used with
int	add timer event, for instance, to pass the info parameter back to the
	script.
float_msg	Attempts to create a floating-text message (str) attached to an object
void	(who) using colors dictated by type. There are two special types,
who (ObjectPtr)	WARNING and SEQUENTIAL. WARNING is used to print a message
msg (str)	centered on the screen (such as for end-of-quest notifications), and
type (int)	SEQUENTIAL will cycle through the colors, in an attempt to give
type (mit)	critters different-colored messages to differentiate them.
game tiele	
game_ticks	Returns the number of game ticks equal to a given # of seconds.
int Time	
seconds (int)	
game_time	Returns the current game time in ticks.
int Time	
game_time_advance	Advances the current game time by (amount) ticks.
void Time	
amount (int)	
game_time_hour	Returns the current hour of the day in a normal format, but without the
int Time	colon. For example, the current starting game time is 721 (which is 7:21
	am).
	, wiii.j.

	\mathbf{D}_{i-1}^{i}
game_ui_disable	Disables game user-interface input from the player (to 'lock-out' the
void Meta	player). You *MUST* make sure to re-enable the UI at some point afterwords.
game ui enable	Re-enables game user-interface input from the player. This *MUST* be
void Meta	called relatively soon after disabling the UI or the player will be stuck,
voiu meiu	unable to do anything.
game ui is disabled	Returns True if the game UI is currently disabled (the player is currently
int Meta	'locked-out'), and False otherwise.
gdialog_barter	Tells the dialog system to switch to the barter screen. (Sets the barter
int Dialog	modifier to 0).
get critter stat	Returns the value of a desired attribute/stat in a critter object (who).
int Critter	
who (ObjectPtr)	
stat (int)	
get day	Returns the current day of the month.
int Time	
gdialog_mod_barter	Tells the dialog system to switch to the barter screen, using a given
int Dialog	modifier.
modifier (+/- percent)	
get_month	Returns the current month of the year.
int Time	
get_pc_stat	Returns the value of a desired pc-only stat of the obj_dude. These are
int Critter	found in define.h all starting with "PCSTAT_".
pcStat (int)	
get_poison	Returns the value of a given critters' (who) poison level.
Critter	
who (ObjectPtr)	
gdialog_set_barter_m	Sets the current modifier for barter to a given percentage (mod). Used to
od	make barter easier/harder, even if the player initiates barter (as opposed
void Dialog	to the script starting it.)
mod (int)	Does a palette fade to black. The Time parameter is currently not
gfade_in <i>void Meta</i>	actually used.
time (int)	actually used.
gfade out	Does a palette fade from black to the game palette. The Time parameter
void Meta	is currently not actually used.
time (int)	is calleding not actually used.
giQ Option	Sets up an option-choice for a reply block if the player's IQ statistic is
void Dialog	equal to or greater than a given value (iq test), getting the string from
iq test (int)	the message file (msg list) and message number (msg num), which will
msg list (int)	cause a given reaction (reaction), and if chosen will jump to the given
msg_num (int)	(target) procedure.
target (procedure)	
reaction (int)	
give_exp_points	Adds experience points (points) to the player's total. These points may
void	then be used by the player to enhance skills, etc.
points (int)	

global_var <i>int Map</i> var index (unsigned	Returns the value of a global variable # (var_index).
int)	
goto_xy Map	
gSay_End <i>void Dialog</i> var_index (unsigned int)	Ends a dialog sequence, which will bring up the sequence (actually display it).
gSay_Message	Sets up a sayMessage, which is a reply with just a [Done] option. The
void Dialog	msg list determines which message file to look in, and the msg num
msg list (int)	determines which line to use from the file.
msg_num (int)	
reaction (int)	
gSay_Option	Sets up an option-choice for a reply block, getting the string from the
void Dialog	message file (msg_list) and message number (msg_num), which will
msg_list (int)	cause a given reaction (reaction), and if chosen will jump to the given
msg_num (int)	(target) procedure.
target (procedure)	
reaction (int)	
gSay_Reply	Sets up a reply block (what the *CRITTER* says).
void Dialog	
msg_list (int)	
msg_num (int)	
gSay_Start void Dialog	Starts a new dialog sequence.
has skill	Determines if a critter (who) 'knows' a particular skill. Actually, this
int Skill	currently returns the level of the skill, which will include defaults.
who (ObjectPtr)	currently returns the rever of the skin, which will merude defaults.
skill (int)	
has trait	Returns the value of a given critter object's (who) trait of a given
int Critter	Trait type (see define.h). This can be used to determine if the player has
trait type (int)	a particular Perk, AI Packet, team num, current rotation, or Trait
who (ObjectPtr)	(finesse, bruiser, etc.).
trait (int)	
how_much	Returns the value of a completed skill vs. skill contest (how much the
int Skill	rolls differed by). This requires that you first call one of the contest roll
val (int)	commands, such as roll_vs_skill, skill_contest, etc
inven_count	Returns the count of how many inventory slots are filled on a given
int Critter	object (what).
what (ObjectPtr)	
inven_ptr	Returns a pointer to the object in slot # (slotNum) in a given object
(ObjectPtr) Critter	(what).
what (ObjectPtr)	
slotNum (int)	Attempts to acuse a critter to unwield any wielded ween and/items. If
inven_unwield	Attempts to cause a critter to unwield any wielded weapons/items. If
void Critter	animations are currently disabled, it will just instantly change the art.

N=criticalReturns True if a given contest for result is a critical result, otherwiseint SkillFalse.is_loading_gameReturns True if the game is currently loading, False otherwise. This isboolean MapReturns True if the game is currently loading, False otherwise. This isused so that bad things don't happen on game load because a script isdoing map_enter setup stuff.is_skill_taggedint SkillskillNum (int)is_successint Skillrad (int)item_caps_adjustint Invenobj (ObjectPtr)amount (int)int Invenobj (ObjectPtr)amount (int)int Objectjam_lockJams a lock, which prevents the player from picking the lock forapproximately 24 hours. Meant to be used when a player critically failsto pick a lock.(Obj (ObjectPtr)kill_crittervoiddbj (ObjectPtr)kill critterkill a critter (obj) outright, placing it in the chosen death frame. Note:this does NOT animate the critter, and does NOT refresh the screen! Itobj (ObjectPtr)kill critter_typevoid Mappid (int)language filter is onReturns True if the language filter is currently filtering harsh language,	ia aritical	Deturne True if a given contact roll regult is a critical regult, otherwise
val (int)Returns True if the game is currently loading, False otherwise. This is used so that bad things don't happen on game load because a script is doing map_enter setup stuff.is_skill_tagged int Skill skillNum (int)Returns True if a given skill is tagged.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void (int)Kills al critters of a given type (pid) outright. See kill_critter above.	is_critical	Returns True if a given contest roll result is a critical result, otherwise
is_loading_game boolean MapReturns True if the game is currently loading, False otherwise. This is used so that bad things don't happen on game load because a script is doing map_enter setup stuff.is_skill_tagged int Skill skillNum (int)Returns True if a given skill is tagged.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		Faise.
boolean Mapused so that bad things don't happen on game load because a script is doing map_enter setup stuff.is_skill_tagged int Skill skillNum (int)Returns True if a given skill is tagged.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr) amount (int)Returns the current caps total in a given object's (obj) inventory.jam_lock (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		
doing map_enter setup stuff.is_skill_tagged int Skill skillNum (int)Returns True if a given skill is tagged.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock. (ObjectPtr)kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map death_frame (int)kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		
is_skill_tagged int Skill skillNum (int)Returns True if a given skill is tagged.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.int Skill val (int)Modifies the current caps count in an object (obj) by a given amount (amount).int Inven obj (ObjectPtr) amount (int)Modifies the current caps total in a given object's (obj) inventory.int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.int Inven obj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.(ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map death frame (int)kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	boolean Map	
in Skill skillNum (int)Returns True if a given contest roll result value is a success, otherwise False.is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.(ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		
skillNum (int)Returns True if a given contest roll result value is a success, otherwise False.int SkillFalse.val (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.int Inven obj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.(ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		Returns True if a given skill is tagged.
is_success int Skill val (int)Returns True if a given contest roll result value is a success, otherwise False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		
int Skill val (int)False.item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	skillNum (int)	
val (int)Modifies the current caps count in an object (obj) by a given amount (amount).int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	is_success	Returns True if a given contest roll result value is a success, otherwise
item_caps_adjust int Inven obj (ObjectPtr) amount (int)Modifies the current caps count in an object (obj) by a given amount (amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter voidKills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	int Skill	False.
int Inven obj (ObjectPtr) amount (int)(amount).item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	val (int)	
obj (ObjectPtr) amount (int)Returns the current caps total in a given object's (obj) inventory.item_caps_total int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter voidKills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	item_caps_adjust	Modifies the current caps count in an object (obj) by a given amount
amount (int)Returns the current caps total in a given object's (obj) inventory.int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	int Inven	(amount).
amount (int)Returns the current caps total in a given object's (obj) inventory.int Inven obj (ObjectPtr)Returns the current caps total in a given object's (obj) inventory.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void death_frame (int)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	obj (ObjectPtr)	
int Inven obj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void obj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	amount (int)	
int Inven obj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.jam_lock int Object lockableObj (ObjectPtr)Jams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.kill_critter void obj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		Returns the current caps total in a given object's (obj) inventory.
jam_lockJams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.lockableObj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	int Inven	
jam_lockJams a lock, which prevents the player from picking the lock for approximately 24 hours. Meant to be used when a player critically fails to pick a lock.lockableObj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	obj (ObjectPtr)	
int Objectapproximately 24 hours. Meant to be used when a player critically fails to pick a lock.lockableObj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		Jams a lock, which prevents the player from picking the lock for
lockableObj (ObjectPtr)to pick a lock.kill_critter void obj (ObjectPtr)Kills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	• -	
(ObjectPtr)Ikill_critter voidKills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	0	
kill_critterKills a critter (obj) outright, placing it in the chosen death frame. Note: this does NOT animate the critter, and does NOT refresh the screen! It is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	5	
voidthis does NOT animate the critter, and does NOT refresh the screen! Itobj (ObjectPtr)is meant to be used in scripts run when entering/exiting a mapdeath_frame (int)(map_init/map_exit).kill_critter_typeKills all critters of a given type (pid) outright. See kill_critter above.void Mapispid (int)is		Kills a critter (obi) outright placing it in the chosen death frame Note:
obj (ObjectPtr) death_frame (int)is meant to be used in scripts run when entering/exiting a map (map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.	—	
death_frame (int)(map_init/map_exit).kill_critter_type void Map pid (int)Kills all critters of a given type (pid) outright. See kill_critter above.		
kill_critter_typeKills all critters of a given type (pid) outright. See kill_critter above.void Mappid (int)		
<i>void Map</i> pid (int)	_	
pid (int)		Kins an entiers of a given type (pid) outright. See Kin_entier above.
	1	
	•	Deturne True if the language filter is surrently filtering hereb language
	8 8 8 8 8	
<i>int (boolean) Meta</i> False otherwise.		
load_map Loads a new map (map_name), removing all scripts currently running		
<i>void Map</i> and passing on the entrance location (start_location) to the new map's	1	
map_name (string) map_init script.		map_init script.
start_location (int)		
local_var Returns the value of a local variable of given index # (var_index).	_	Keturns the value of a local variable of given index # (var_index).
int Map	-	
var_index (unsigned	_ ` `	
int)		
map_first_runReturns True if the current map is being run for the first time (in other		
<i>int Map</i> words, this map was not loaded from a save-game).	•	
map_is_knownReturns True if a given map index (mapNum) is known, False		
<i>int Meta</i> otherwise.		otherwise.
mapNum (int)	mapNum (int)	
map_knownReturns True if a given map # (mapNum) is known, False otherwise.	map_known	Returns True if a given map # (mapNum) is known, False otherwise.
int Meta		
mapNum (int)		

map_var	Returns the value of a map-global variable of a given index #
int Map	(var index).
var index (unsigned	(var_index).
int)	
message_str	Returns a string from the message module for a given list and a given #
char *	(msg_num).
list (int)	().
msg_num (int)	
move to	Immediately moves an object (obj) to the given tile number and
int Map	elevation on the current map.
obj (ObjectPtr)	1
tile num (int)	
elev(0-2)	
move_obj_inven_to_o	Moves an object's (srcObj) inventory into another object's (destObj)
bj	inventory.
int Inven	
srcObj (ObjectPtr)	
destObj (ObjectPtr)	
obj_art_fid	Returns the fid # (used to index art) of a given object (obj).
(ObjectPtr) Object	
obj (ObjectPtr)	
obj_being_used_with	Returns a pointer to the object being used on another object.
(ObjectPtr) Object	
obj_can_hear_obj	Returns True if the source object (src_obj) is capable of hearing the
boolean Map	destination object (dst_obj). This includes distance factors, current
src_obj (ObjectPtr)	activity (standing/walking/running), and skill use (stealth/etc.).
dst_obj (ObjectPtr)	
obj_can_see_obj	Returns True if the source object (src_obj) has line-of-sight (LOS) with
boolean Map	the destination object (dst_obj). This also takes into account perception
src_obj (ObjectPtr)	& stealth rolls of the objects are critters.
dst_obj (ObjectPtr)	Determe en Object a jutante en justemer ef en abject efterne vidjfer
obj_carrying_pid_obj	Returns an Object pointer to an instance of an object of type pid if an
(ObjectPtr) Object who (ObjectPtr)	object (who) is carrying an object of that type.
pid (int)	
obj close	Attempts to close a given object (what) if it is of an openable type.
void Object	
what (ObjectPtr)	
obj drop everything	Causes a critter object (who) to drop all objects in it's inventory and
void Inven	drop it on the ground at it's feet.
who (ObjectPtr)	
obj is carrying obj p	Returns the quantity of objects with matching prototype index #'s (pid)
id id	carried in the inventory of another object (obj).
boolean Object	
obj (ObjectPtr)	
pid (int)	
obj_is_locked	Returns True if a given object (what) is a locked object, False if it is
int Object	unlocked or not a lockable object.
what (ObjectPtr)	
what (ObjectPtr)	

1 • • • • • • • • • • • • • • • • • • •	\mathbf{D} (\mathbf{T}) (\mathbf{C}) (1) (
obj_is_visible_flag	Returns True if a given object (who) is turned on (visible), False
int Object	otherwise.
who (ObjectPtr)	
obj_is_open	Returns True if a given object (what) is an open object, False if it is
int Object	closed or not an openable object.
what (ObjectPtr)	
obj_item_subtype	Returns the subtype of an object of type 'item'. Examples would be food,
int Object	armor, weapons, etc.
obj (ObjectPtr)	
obj_lock	Attempts to lock a given object (what) if it is of a lockable type.
void Object	
what (ObjectPtr)	
obj_name	Returns a string representing the name of the given object (what).
void Object	
what (ObjectPtr)	
obj on screen	Returns True if a given object (what) is currently being drawn on-
int Object	screen, False if it is not.
what (ObjectPtr)	
obj_open	Attempts to open a given object (what) if it is of an openable type.
void Object	Attempts to open a given object (what) if it is of an openable type.
5	
what (ObjectPtr)	$\mathbf{D}_{\mathbf{r}} = \mathbf{f}_{\mathbf{r}} + $
obj_pid	Returns the prototype id # (pid) of an object (obj).
int Object	
obj (ObjectPtr)	
obj_set_light_level	Set the light level for an object to a given intensity (percentage of
void Object	possible maximum intensity), and distance of light in hexes.
obj (ObjectPtr)	
intensity (1-100)	
distance (0 - 8)	
obj_type	Returns the type of an object (obj). This would be 'Item', 'Wall',
int Object	'Scenery', etc.
obj (ObjectPtr)	
obj_unlock	Attempts to unlock a given object (what) if it is of a lockable type.
void Object	
what (ObjectPtr)	
override_map_start	Used when loading a new map, this forces the player (obj_dude) to start
void Map	at a particular location and rotation when first coming up.
x (int)	
y (int)	
elev (0-2)	
rot (0-5)	
party add	Adds a given critter (who) into the list of party members. This will also
void Party	setup those objects so that they will not be saved in maps, and certain
who (ObjectPtr)	other things.
party member obj	Returns an ObjectPtr to a party member that matches a given pid. If that
ObjectPtr Party	critter isn't currently a member of the party, then it will return NULL.
pid (int)	in the party, and the party, and it will rough rough.
party_member_count	Returns the count of the currently in-party party members.
<i>ObjectPtr Party</i>	(countHidden) determines whether or not to count the hidden members
countHidden (int)	(hangers-on).
	(nangers-on).

party_remove	Removes a given critter (who) from the list of party members. This will
void Party	also change those objects so that certain object- and map-level things
who (ObjectPtr)	will respond differently to them.
pickup_obj	Causes the critter self-object to animate and attempt to pick up a given
void Inven	object (obj).
obj (ObjectPtr)	
play_gmovie	Plays one of the Fallout movies (full-screen, compressed, etc.).
Meta	
play_sfx	Starts a new sound effect to be played on the queue.
Sound	
poison	Increases the a critters' poison level by a given amount.
Critter	
who (ObjectPtr)	
amount (int)	
proto_data	Returns the value of a data-member of a given prototype (pid).
int OR string Object	
pid (int)	
data_member (int)	
radiation dec	Decrements a critter's radiation counter by a given amount. NOTE: This
Critter –	should only be done to the player (obj_dude) in Fallout due to design
who (ObjectPtr)	restrictions!
amount (int)	
radiation_inc	Increments a critter's radiation counter by a given amount. NOTE: This
_ Critter	should only be done to the player (obj dude) in Fallout due to design
who (ObjectPtr)	restrictions!
amount (int)	
random	Returns a random value between (min) and (max), inclusive.
int Script	
min (int)	
max (int)	
reg anim animate	Adds a single, in-place animation on an object (what) to an animation
void Anim	sequence-list, at a given delay from the previous animation (delay
what (ObjectPtr)	should always be -1)!
anim (int)	
delay (int)	
reg_anim_animate_fo	Adds a single, in-place animation on an object (what) to an animation
reg_amm_ammate_to	sequence-list, at a given delay from the previous animation (delay
void Anim	should always be -1)! This animation will animate continuously until
what (ObjectPtr)	something in the system interrupts it. To be used *very* sparingly, for
anim (int)	instance Gizmo's sign and the 'pray' signs in the children of the
delay (int)	cathedral (which will have to be toned down).
reg_anim_animate_re	Adds a single, in-place reversed animation on an object (what) to an
verse	animation sequence-list, at a given delay from the previous animation
void Anim	(delay should always be -1)!
	(uctay should always up -1)!
what (ObjectPtr)	
anim (int)	
delay (int)	Talls the system to start an animation of success 1' t
reg_anim_begin	Tells the system to start an animation sequence-list.
void Anim	

reg_anim_clear	Terminates all animations that are currently registered for a given
void Anim	object.
object (ObjectPtr)	, ,
reg_anim_end void Anim	Activates the animation sequence-list. Without this call the animation will never occur. Note: All animation sequences must be registered at ONCE! In other words, you cannot let the script end and finish registering the animations later.
reg_anim_obj_move_t o_obj void Anim who (ObjectPtr) dest_obj (ObjectPtr) delay (int)	Adds an animation to cause a critter object (who) to attempt to walk to another object (dest_obj) at a given delay from the previous animation (delay should always be -1)!
reg_anim_obj_run_to _obj void Anim who (ObjectPtr) dest_obj (ObjectPtr) delay (int)	Adds an animation to cause a critter object (who) to attempt to run to another object (dest_obj) at a given delay from the previous animation (delay should always be -1)!
reg_anim_obj_move_t o_tile void Anim who (ObjectPtr) dest_tile (int) delay (int)	Adds an animation to cause a critter object (who) to attempt to walk to a given destination tile number (dest_tile) at a given delay from the previous animation (delay should always be -1)!
reg_anim_obj_run_to _tile void Anim who (ObjectPtr) dest_tile (int) delay (int)	Adds an animation to cause a critter object (who) to attempt to run to a given destination tile number (dest_tile) at a given delay from the previous animation (delay should always be -1)!
reg_anim_play_sfx void Anim who (ObjectPtr) sfx_name (string) delay (int)	Adds an animation to cause an object (who) to attempt to play a given sound effect (sfx_name) at a given delay from the previous animation!
rm_fixed_timer_event void Meta(Time) who (ObjectPtr) fixed_val (int)	Removes (clears) all timer events hooked to a given object's (obj) script that have a given fixed_value (fixed_val).
rm_obj_from_inven <i>void Inven</i> who (ObjectPtr) obj (ObjectPtr)	Removes an object (obj) from another object's (who's) inventory. <u>Note</u> : this leaves the removed object in at location (0,1) on the map! You must call move_to() to place it back on the map.

rm_mult_objs_from_i	Removes (count) instances of an object (obj) from another object's			
nven				
int Inven	(who's) inventory. <u>Note</u> : this leaves the removed object in at location $(0, 1)$ on the map! You must call move to $(-)$ to place it back on the			
who (ObjectPtr)	$(0,1)$ on the map! You must call move_to() to place it back on the			
× 5				
obj (ObjectPtr)	NOTE: This function returns the actual count that was removed (if you			
count (int)	attempted to remove more instances than existed). You *MUST* store			
	this value in a variable (though you don't have to actually do anything			
	with it).			
rm_timer_event	Removes (clears) all timer events hooked to a given object's (obj)			
void Meta(Time)	script.			
obj (ObjectPtr)				
roll_dice	Returns the value of the completed dice roll. <u>UNIMPED!</u>			
Skill				
roll_vs_skill	Returns the value of a completed skill roll made upon an object's			
int (roll_result) Skill	(who's) skill level with a given skill, and modified by a given amount			
who (ObjectPtr)	(may be zero). This value may then be passed to is_success and			
skill (int)	is_critical to determine the appropriate states, and the how_much call			
modifier (int)	can be used to determine the difference succeeded or failed by.			
rotation_to_tile	Returns the rotation (05) to face a particular tile (destTile) from a			
int (15) Map	particular tile (srcTile).			
srcTile (int)				
destTile (int)				
running_burning_guy	Returns the setting for the running-burning-guy in the game (defined in			
int 0_0_0	the options screen).			
scr_return	Sets the return value for a scripts C-engine node, to be used by C code.			
void Script				
script_action	Returns the action that has activated this script. Examples include			
int Script	requests for the description of an object (description_proc), notifications			
	of a spatial script being activated by something hitting its boundary			
	(spatial_proc), or a critter being given its heartbeat (critter_proc, in other			
	words being told to move).			
• • • •	Talls the C ensure that the semint will $i +i +$			
script_overrides	Tells the C-engine that the script will override default behavior for the			
script_overrides void Script	object. What this means is that the C-engine will not attempt to do			
	object. What this means is that the C-engine will not attempt to do			
	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will			
	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is			
	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as			
	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an IMPORTANT command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors,			
	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an IMPORTANT command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock).			
void Script	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an IMPORTANT command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a			
void Script self_obj (ObjectPtr) Script	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock). Returns a pointer to the object connected to this script.			
void Script self_obj	 object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock). Returns a pointer to the object connected to this script. 			
void Script self_obj (ObjectPtr) Script set_critter_stat int Critter	object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock). Returns a pointer to the object connected to this script.			
<pre>void Script self_obj (ObjectPtr) Script set_critter_stat int Critter who (ObjectPtr)</pre>	 object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock). Returns a pointer to the object connected to this script. 			
void Script self_obj (ObjectPtr) Script set_critter_stat int Critter	 object. What this means is that the C-engine will not attempt to do things that it would normally do, in expectation that the script will handle those things itself. This is an <u>IMPORTANT</u> command! It is commonly used for the general player actions upon objects, such as looking at them (requesting a description), using them (opening doors, for example), or using items ON them (using a picklock or a key on a door lock). Returns a pointer to the object connected to this script. 			

set_exit_grids void Map markElev (elevation) mapID (int) elevation (int) tileNum (int) rotation (int)	Sets all exit grids on a given elevation (markElev) to point to a destination mapID (may be -1 which means stay on this map), elevation, tileNum, and rotation.		
set_global_var void Map var_index (unsigned int) value (int)	Sets the value of a global variable (var_index) to a given (value).		
set_light_level void Map level (int: 1-100)	Sets the ambient light level. The range is Full Darkness to Full Daylight.		
set_local_var void Map var_index (unsigned int) value (int)	Sets the value of a local variable (var_index) to a given (value).		
set_map_var void Map var_index (unsigned int) value (int)	Sets the value of a map-global variable (var_index) to a given (value).		
set_map_start void Map x (int) y (int) elev (0-2) rot (0-5)	Sets the start location & rotation for the next time this map is entered (loaded & run).		
set_obj_visibility void Object obj (ObjectPtr) visibility (boolean)	Sets the OBJ_OFF flag for an object (makes it not drawn).		
signal_end_game	Tells the system that a script is indicating the game should be ended. This will return the player to the main-menu.		
skill_contest Skill	Returns the value of a completed skill vs skill contest (to run through is success & is critical).		
source_obj (ObjectPtr) Script	Returns a pointer to the source object (activator) for this action. The source object for a pickup_proc (pickup an object script_action) would be the critter picking the object up, for instance.		
start_dialogue void Dialog who (ObjectPtr) mood (int)	Start the dialogue system focusing on a critter (who) and starting in a given (mood). This call sets up the appropriate dialog windows, head art, etc. If this call is not made before the normal dialog calls (sayReply, sayMessage, sayOption, etc.) then the dialog windows will not come up, and only grey boxes will appear with the text.		

void Dialoggiven (mood). This call sets up the appropriate dialog windows, head art, etc. If this call is not made before the normal dialog calls (sayReply, sayMessage, sayOption, etc.) then the dialog windows will not come up, and only grey boxes will appear with the text.headNum (int)and only grey boxes will appear with the text.headNum (int)backgroundldx (int)target_objReturns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile distance obj(10)Returns the tile distance between two tile #'s.int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile (int) tile (int) tile (int)Returns the tile distance between two objects (between their tile #'s).tile int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile int Map tile (int)Returns the tile number of object (obj).tile int Map obj(ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given <b< th=""><th></th><th></th></b<>					
msgFileNum (int) who (ObjectPir) mood (int) headNum (int) backgroundIdx (int)art, etc. If this call is not made before the normal dialog calls (sayReply, sayMessage, sayOption, etc.) then the dialog windows will not come up, and only grey boxes will appear with the text.headNum (int) backgroundIdx (int)Returns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combat void CombatReturns a pointer to the target object for this action. The target object for this doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) tile2 (int)Returns the tile distance between two tile #'s.tile (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile (int) tile (int)Returns the tile distance between two objects (between their tile #'s).tile (int) tile (int)Returns the tile distance between two objects (between their tile #'s).tile (int) tile (int)Returns the tile number of object (obj).tile (int) tile (int)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile (int) tile (int)Returns the tile number of a tile offset from a starting tile in a given direction	start_gialog	Start the dialogue system focusing on a critter (who) and starting in a			
who (ObjectPtr) mood (int) headNum (int) backgroundldx (int)sayMessage, sayOption, etc.) then the dialog windows will not come up, and only grey boxes will appear with the text.headNum (int) backgroundldx (int)Returns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combat void CombatReturns a pointer to the target object for this action. The target object is (ObjectPtr) Script from re-strating combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid boolean Map tile (int) clev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and clevation.tile_distance boolean Map tile (int) tile (int) tile 2 (int)Returns the tile distance between two tile #'s.tile_distance boj12 (ObjectPtr) obj12 (ObjectPtr) obj12 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile nith at direction).tile_num int Map obj1 (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is k	U				
mood (int) headNum (int) backgroundIdx (int)and only grey boxes will appear with the text.headRynum(Int) backgroundIdx (int)Returns a pointer to the target object for this action. The target object is what is being acted upon.target_obj (ObjectPtr) ScriptReturns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combat void CombatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile_contains_pid_obj boolean Map tile1 (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile_distance int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two tile #'s.tile_distance_objs int Map obj1 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction). <td></td> <td colspan="4"></td>					
headNum (int) backgroundldx (int)Returns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combat void CombatReturns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combat void CombatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile distance obj (00) colicetPtr)Returns the tile distance between two tile #'s.tile distance_objs int Map tile (int) tile 2 (bipcetPtr)Returns the tile distance between two objects (between their tile #'s).tile funt tile (int) tile (int) tile (int) tile (int)Returns true if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile num indirection int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen, 	× 5 /				
backgroundlx (int)Returns a pointer to the target object for this action. The target object is (<i>ObjectPtr) Script</i> what is being acted upon.terminate_combatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid booleam Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile_contains_pid_obj booleam Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #s.tile_distance obj1 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_distance_objs int Map obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a bile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.	· · · · · ·	and only grey boxes will appear with the text.			
target_obj (ObjectPtr) ScriptReturns a pointer to the target object for this action. The target object is what is being acted upon.terminate_combatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid booleam Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile_ontains_pid_obj boleam Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) tile2 (int)Returns the tile distance between two tile #'s.tile (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a bile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen, downamap	× /				
(ObjectPtr) Script what is being acted upon. terminate_combat Tells the combat system to terminate prematurely. USE WITH void Combat CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc. tile_contains_obj_pid Returns True if a particular tile contains an object with a matching prototype index # (obj pid). tile (int) Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation. tile (int) Returns the tile distance between two tile #'s. int Map Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may tile (int) tile_int) Returns the tile number of a bile offset from a starting tile in a given diversity boolean Map tile_int Returns the tile number of a bile offset from a starting tile in a given diversity take would bound into the actual display area. tile_int Returns the tile number of a bile offset from a starting tile in a given direction (the next tile in that direction). tile_num_in_direction int Map Returns true if a given town area (townArea) is known, False otherwise.					
terminate_combat void CombatTells the combat system to terminate prematurely. USE WITH CAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile_contains_pid_obj boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile_distance boolean Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj1 (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns true if a given town area (townArea) is known, False otherwise.town_known int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False 					
void CombatCAUTION. This doesn't prevent another (or even the SAME) script from re-starting combat, so make sure you turn off any hostile flags, etc.tile_contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile_contains_pid_obj boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile_tile_distance int Map tile (int)Returns the tile distance between two tile #'s.tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr) obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen, to bravise.					
from re-starting combat, so make sure you turn off any hostile flags, etc.tile contains_obj_pid boolean MapReturns True if a particular tile contains an object with a matching prototype index # (obj pid).tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile_distance objectPtr)Returns the tile distance between two tile #'s.tile_distance_objs obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_mapReturns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).	_				
tile_contains_obj_pid boolean Map tile (int) elev (0-2) pid (int)Returns True if a particular tile contains an object with a matching prototype index # (obj pid).tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of object (obj).tile_num int Map obj (ObjectPtr)Returns the tile number of object (obj).tile_num int Map start_tile (int)Returns the tile number of object (obj).tile_num int Map start_tile (int)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map start_tile (int)Returns True if a given town area (townArea) is known, False otherwise.	void Combat				
boolean Mapprototype index # (obj pid).tile (int)elev (0-2)pid (int)Returns a pointer to the first object that matches a particular pid # that isboolean Mapon a particular tile and elevation.tile (int)elev (0-2)pid (int)Returns the tile distance between two tile #'s.tile_distanceReturns the tile distance between two tile #'s.int Maptile1 (int)tile_distance_objsReturns the tile distance between two objects (between their tile #'s).int Maptile is visibleobj1 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on itcould conceivably be displayed on-screen. This includes hexes that maytile (int)Returns the tile number of object (obj).tile_numReturns the tile number of object (obj).int MapReturns the tile number of a tile offset from a starting tile in a givendirection (the next tile in that direction).Returns True if a given town area (townArea) is known, Falseotherwise.otherwise.town_knownReturns True if a given town area (townArea) is known, Falseotherwise.otherwise.					
tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile contains_pid_obj bolean Map tile (int) elev (0-2) pid (int)Returns the a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile distance_objs obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile is visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of object (obj).tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.					
elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile distance int Map tile 1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile distance_objs obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile inty tile (int) tile intyReturns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.	1	prototype index # (obj pid).			
pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int)Returns the and elevation.tile distanceReturns the tile distance between two tile #'s.int Maptile1 (int)tile_distance_objsReturns the tile distance between two objects (between their tile #'s).int Mapreturns the tile distance between two objects (between their tile #'s).obj1 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile (int)				
tile_contains_pid_obj boolean Map tile (int) elev (0-2) pid (int)Returns a pointer to the first object that matches a particular pid # that is on a particular tile and elevation.tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile_distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.tile_num int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.	elev (0-2)				
boolean Map tile (int) elev (0-2) pid (int)on a particular tile and elevation.tile (int) elev (0-2) pid (int)on a particular tile and elevation.tile distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile is_visible bolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of object (obj).tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.	· · · · · · · · · · · · · · · · · · ·				
tile (int) elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile_distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Mea town_rmapReturns True if a given town area (townArea) is known, False otherwise.					
elev (0-2) pid (int)Returns the tile distance between two tile #'s.tile_distance int Map tile1 (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num int Map obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (object (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Mata town_mapReturns True if a given town area (townArea) is known, False otherwise.	1	on a particular tile and elevation.			
pid (int)Returns the tile distance between two tile #'s.tile_distanceReturns the tile distance between two tile #'s.int MapReturns the tile distance between two objects (between their tile #'s).tile_distance_objsReturns the tile distance between two objects (between their tile #'s).int MapObj1 (ObjectPtr)obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may tile (int)tile_numReturns the tile number of object (obj).int MapReturns the tile number of object (obj).tile_num_in_directionReturns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).start_tile (int)Returns True if a given town area (townArea) is known, False otherwise.town_knownReturns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile (int)				
tile_distance int Map tile1 (int) tile2 (int)Returns the tile distance between two tile #'s.tile1 (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile_distance_objs int Map obj1 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.	elev (0-2)				
int Map tile1 (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	1 1				
tile1 (int) tile2 (int)Returns the tile distance between two objects (between their tile #'s).tile_distance_objs int Map obj1 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile_distance	Returns the tile distance between two tile #'s.			
tile2 (int)tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)tile is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	int Map				
tile_distance_objs int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns the tile distance between two objects (between their tile #'s).tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile1 (int)				
int Map obj1 (ObjectPtr) obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile2 (int)				
obj1 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	*	Returns the tile distance between two objects (between their tile #'s).			
obj2 (ObjectPtr)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	1				
tile_is_visible boolean Map tile (int)Returns True if a given hex (tile) is currently visible, i.e. an object on it could conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_num obj (ObjectPtr)Returns the tile number of object (obj).tile_num_in_direction int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.					
boolean Mapcould conceivably be displayed on-screen. This includes hexes that may technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_numReturns the tile number of object (obj).int MapReturns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_directionReturns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_knownReturns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,					
tile (int)technically have bases that are off-screen, but on whom objects could exist that would bound into the actual display area.tile_numReturns the tile number of object (obj).int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map dir (0-5) distance (int)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	tile_is_visible				
exist that would bound into the actual display area.tile_numReturns the tile number of object (obj).int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area negine to bring up the Town Map screen,	boolean Map	could conceivably be displayed on-screen. This includes hexes that may			
tile_numReturns the tile number of object (obj).int MapReturns the tile number of a bject (obj).obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a giventile_num_in_directionReturns the tile number of a tile offset from a starting tile in a givenint MapReturns the tile number of a tile offset from a starting tile in a givenstart_tile (int)Returns the tile number of a tile offset from a starting tile in a givendirection (the next tile in that direction).Returns the tile number of a tile offset from a starting tile in a giventown_knownReturns True if a given town area (townArea) is known, False otherwise.townArea (int)Sends a request for the game engine to bring up the Town Map screen,	tile (int)				
int Map obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map start_tile (int) dir (0-5) distance (int)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,		exist that would bound into the actual display area.			
obj (ObjectPtr)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).tile_num_in_direction int Map start_tile (int) dir (0-5) distance (int)Returns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	—	Returns the tile number of object (obj).			
tile_num_in_direction int MapReturns the tile number of a tile offset from a starting tile in a given direction (the next tile in that direction).start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	1				
int Mapdirection (the next tile in that direction).start_tile (int)direction (the next tile in that direction).dir (0-5)distance (int)town_knownReturns True if a given town area (townArea) is known, False otherwise.int Metaotherwise.townArea (int)Sends a request for the game engine to bring up the Town Map screen,					
start_tile (int) dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,		e e			
dir (0-5) distance (int)Returns True if a given town area (townArea) is known, False otherwise.town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	-	direction (the next tile in that direction).			
distance (int)Returns True if a given town area (townArea) is known, False otherwise.int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	start_tile (int)				
town_known int Meta townArea (int)Returns True if a given town area (townArea) is known, False otherwise.townArea (int)Sends a request for the game engine to bring up the Town Map screen,					
int Meta townArea (int)otherwise.town_mapSends a request for the game engine to bring up the Town Map screen,	distance (int)				
townArea (int)town_mapSends a request for the game engine to bring up the Town Map screen,					
town_map Sends a request for the game engine to bring up the Town Map screen,		otherwise.			
	townArea (int)				
<i>void</i> for the player to go to different locations in an area (different areas in					
	void	for the player to go to different locations in an area (different areas in			
Vault13, for example).		Vault13, for example).			

use_obj			
(ObjectPtr) Script			
obj (ObjectPtr)			
use_obj_on_obj	Attempt to use an item object on a target object (targetObj). This could		
(ObjectPtr) Script	be used to have a critter use a Stimpack on the player, for instance, or to		
item (ObjectPtr)	use a key on a door.		
targetObj (ObjectPtr)			
using skill	Returns True if an active skill is being used, False otherwise. Examples		
boolean Skill	of active skills are Stealth and First Aid.		
who (ObjectPtr)			
skill (int)			
violence level setting	Returns the current setting of the violence level. See define.h for values.		
int (boolean) Meta			
wield obj	Sets up an animation causing a critter (self obj) to wield an object (obj)		
void Inven	in that critters' inventory. This puts that object in the critter's hand.		
obj (ObjectPtr)			
wield obj critter	Sets up an animation causing a critter (who) to wield an object (obj) in		
void Inven	that critters' inventory. This puts that object in the critter's hand.		
who (ObjectPtr)	J I J		
obj (ObjectPtr)			
wm_area_set_pos	Sets the World Map coordinates for a given area/town (areaIdx) to a		
void	given x and y position.		
areaIdx (int)			
xPos (int)			
yPos (int)			
world map	Sends a request for the game engine to bring up the World Man screen		
void	Sends a request for the game engine to bring up the World Map screen,		
	for the player to move around to different locations.		
world_map_x_pos	Returns the current X Position of the party on the World Map.		
int	Determent W.Deritien efficiency the Weyling		
world_map_y_pos	Returns the current Y Position of the party on the World Map.		
int			

Script Actions Summary

Description	Object	A request to examine (extended-look) an object.
Combat	Critter	A combat action is occurring.
Create	Script	This script-object is being created. (UNIMPED).
Critter	Critter	A critter script is getting its heartbeat.
Damage	Object	This object is taking damage.
Destroy	Script	This script-object is being destroyed.
Drop	Item	An object is being removed from another object's
		inventory and is being dropped on the ground.
		(UNIMPED).
Look At	Object	A brief look at an object is being requested.
Map Enter	Map	This map is being entered (was just loaded).
Map Exit	Map	This map is being left (is being saved as a savegame).
Map Update	Map	This map is being updated (changing levels, lighting,
		etc.)
None	Script	No action.
Pickup	Item	An attempt is being made to pickup an object and
		place it in an object's inventory. Or, could be
		looting/stealing.
Spatial	Script	This scripts' spatial radius has been entered.
Start	Script	Starting up script for first time.
Talk	Critter	A script dialogue is being requested.
Timed Event	Script	A timed event has just reached activation.
Use	Object	Attempt to use an object.
Use Object On	Object	Use an object on another object.
Use Skill On	Object	Use a skill on an object.

Script Action Groups

Object:

Object actions are generic actions that can be done on any game object. For instance, if something requests to look at an object in the game, this would be valid on any of the normal (non-interface) objects. Individual prototypes of objects determine whether or not that object has certain actions available to it. So, for example, unless the prototype of the object is set to allow you to USE it, the player will never be given the option to do so.

Item:

Item actions are actions specific to those objects that the player can pick up, drop, and wear. In other words, inventory items.

Critter:

Critter actions are called on objects that represent active beings in the game. In a sense, these actions only occur with 'intelligent' objects, which in nearly all cases are capable of movement and entering combat, dialog, etc.

Map:

Map actions are specific to special map occurrences, such as when a map is loaded, saved, or updated. Originally map actions were only available to the **map script** itself, but it became clear that they could potentially be needed for any script. They are extremely helpful for setting up variables at the start of a map. When a map is first entered, the **map script** gets run first, and then every other script which is flagged as needing to be called on enter gets called. This can be used to store map-specific variables in the **map script** and to 'export' them from there. Then any other scripts that need to use these variables just need to 'import' them, since they are guaranteed to exist.

<u>Script:</u>

Script actions relate to script-specific calls, such as when a script is being destroyed, activated by spatial movement, or previously setup timed events. These actions are not directly activated by the player (unlike object actions), but by the script system itself.

Script Action Descriptions

Description:

The player is trying to examine this scripts' object. The default behavior is to print the long description of the object from its prototype in the small display window.

<u>Combat:</u>

Combat is occurring, and one of the combat sub-actions has occurred. These actions allow the script to react to combat (even though combat attack/etc. choices are actually handled in the engine). They are:

- HIT_SUCCEEDED -- The scripts' object successfully hit it's target. This can be used to do extra damage (radiation, for example), or to count the attacks that succeed.
- SEQUENCING Combat sequencing is being checked (to see if critters want to enter/exit combat).
- TURN A combat turn is just about to start. You can override the default turn behavior here to prevent a critter from reacting to combat (or to cause them to do something special).
- NONCOM_TURN (UNUSED).

Create:

(UNUSED).

Critter:

The critter's heartbeat is occurring. Basically, each script gets hit every so often (should be several times a second) so that it can react to its environment or to changes in flag variables, etc. This is where the code can be put to have the critter walk, etc. on its own.

Damage:

Something has occurred to damage this scripts' object. This will almost always mean that a critter has been hit in combat. Here they could set hostile flags (that might affect dialog or quest statuses later), or they could heal themselves to prevent death (this isn't good practice, but may be useful in one or two cases where you want to make sure the critter says something, does something, etc. before they actually die).

Destroy:

This script is being destroyed, and it and all related events (timed events, for instance) are about to be removed from the system. This most likely means it is either a critter that has just been killed in combat, or that it is an inventory item that was just used up. Useful things to do when this action is called are to give the player experience points (for killing creatures or fulfilling quest objectives) and to update counts, such as the kill-counts (number of critters of a given type killed), or local counts (how many radscorpions are left in the cave, or how many gang members are left still in town).

Drop:

An inventory item is being dropped from a critter's inventory.

Look At:

The player is trying to look at the scripts' object. The default behavior is to print the short description, in other words the prototype name in the small display window.

Map Enter:

The map has just been entered, and this script is flagged as needing to be run before the normal game processing starts up. Here, initialization code can setup variables for the map.

<u>Map Exit:</u>

The map is about to be left. This occurs when the player goes to the town/world maps.

Map Update:

The map is getting a 'heartbeat' to let it update the map. Here ambient light levels can be changed, such as when it becomes nighttime or the player changes levels to an underground/above-ground area.

None:

Nothing is happening. This should never be called, but is there for the default case.

<u>Pickup:</u>

This procedure means different things for different types of scripts:

Item Scripts – A critter is attempting to pickup an inventory item. For containers, however, this means that a critter is trying to *open* it/loot it.

Critter Scripts – A critter is attempting to steal from this scripts' critter object.

<u>Spatial:</u>

An object has just moved in this scripts' spatial sphere of detection. The script may need to double-check that this object is of a particular type (a critter, the player's object, etc.).

<u>Start:</u>

A script is being run for the very first time.

<u>Talk:</u>

A critter object is starting to talk, either because the player requested it, or because the critter's script requested that it occur. Here the dialog system needs to be setup, and the actual script-language dialog system calls will be placed.

Timed Event:

A timed-event has just gone off for this script. Usually, this event was setup earlier by this script itself. It lets the script delay events or in effect give itself a heartbeat.

Use:

Something (usually a critter) is attempting to use this object. The command source_obj will return who it is. Nearly always this will mean a critter (most likely the player) is attempting to use it, but occasionally another script will make the call, which can be used to differentiate its behavior. For instance, this allows the vault door scripts to open the vault door when the player uses the vault door computer, but **not** when the player attempts to open the door directly.

Use Object On:

A critter is attempting to use an inventory item on this scripts' object. This could be lockpicks on a door, a medical kit on a critter, the iquana-on-a-stick on a dog, etc.

Use Skill On:

A critter is attempting to use a skill on this scripts' object. The default behavior is dependent on the specific skill itself.