UOSScripting Documentation

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Introduction

Syntax

UOS scripting language is a "command based" language, it is easy to use and requires very basic programming knowledge, its power and flexibility is given by its commands, which can be found in this documentation.

In this section we will show you its syntax, explaining symbols and structures.

Commands and Parameters

As mentioned before this is a "command based" language, that being said understanding how to run commands is an important step. This documentation provides you a list of every command avaliable on UOS, it will also show you its supported parameters, for example:

Usage

pushlist ('list name') ('element value') ['front'/'back']

Note that all parameters are shown inside of parenthesis or brackets. What does it mean? It is simple, all parameters inside parenthesis are **mandatory**, required for the command to be executed, on the other hand, all parameters inside brackets are **optional**. The slashes "/" inside of a parameter means **or**, they are **not** part of a feasible parameter value. You also must respect the parameters order, check out the samples below:

Incorrect

pushlist pushlist 'fruits' pushlist ('fruits') ('apple') pushlist 'fruits' 'apple' 'front/back' pushlist 'fruits' star fruit pushlist 'fruits' 'japan's melon' 'front'

Correct

pushlist 'fruits' 'apple' pushlist 'fruits' grape 'front' pushlist 'fruits' 'lemon' 'back' pushlist 'fruits' 'star fruit' pushlist 'fruits' "japan's melon" 'front'

Important: text parameters can be written without quotes or inside of single quotes and double quotes; be careful because if you want to pass a parameter that has aphostrophe you **must** use double quotes, otherwise single quotes are just fine. In case it is a compound text such as "star fruit" make sure quotes are being used otherwise you'd be passing "star" as a parameter and "fruit" as another. Always using double quotes is an advised best practice.

Loops and Conditions

Check below our supported loops and conditional statements structures.

Structures

```
if (statement)
elseif (statement)
else
endif
while (statement)
endwhile
for (value)
endfor
for (start) to (end)
endfor
for (start) to ('list name')
endfor
for (start) to (end) in ('list name')
endfor
```

Keywords

break
continue
stop
replay
not (statement)
(statement) and (statement)
(statement) or (statement)

Lets suppose you want to say "I love UOS!" 10 times. How can we code that? We would have to use a "for" because that way we can define how many times we want the code to repeat:

Code

```
// Repeat 10 times
for 10
// Send a lovely message in game
msg "I love UOS!"
pause 1500
endfor
sysmsg "End of for loop"
```

Now lets take a better look at the script above... first is just a comment line, you are able to comment your code anytime by adding a "//" prefix before your comment, remember that all comments require a new line! The second line starts our "for" loop and specify how many times we want this to repeat, in this case 10. Third line is also a comment, line 4 has a msg command that sends a message in game, passing "I love UOS!" as parameter and line 5 has a pause, because we have to breath and spamming is bad, note that we pass 1500 as our first parameter, pause command requires a time parameter in milliseconds so we are actually pausing for 1.5 seconds. Last line sysmsg command will print a system message letting we know the loop has ended.

Wait, I love UOS much more, I wanna say that "while" I'm alive:

Code

```
// While I'm alive
while not dead
// Send a lovely message in game
msg "I love UOS!"
pause 1500
endwhile
sysmsg "End of while loop"
```

Now it will keep repeating until your character is dead instead of repeating only 10 times, pay attention to the statement: "not dead" combined by <u>dead</u> conditional command and "not" keyword. What if I'm sick? I can't scream how much I love UOS so I want to stop saying that and cure myself first:

Code

```
// While I'm alive
while not dead
if poisoned 'self'
    // I'm poisoned! Try to cure.
    cast 'Cure'
    waitfortarget 5000
    target 'self'
    break
    // Unreachable code
    endif
    // Send a lovely message in game
    msg "I love UOS!"
    pause 1500
endwhile
sysmsg "End of while loop"
```

The keyword "break" will quit our "while" loop and <u>sysmsg</u> command will be executed because it is outside the "while" loop, note that <u>waitfortarget</u> command expects a timeout parameter also in milliseconds, in this case 5 seconds. We have added to our script a conditional statement using <u>poisoned</u> command.

Use keyword "stop" to completely stop a macro and "replay" to restart playing your current macro. In case you want to play a different macro look for <u>playmacro</u> command.

Symbols

There are currently 2 supported symbols that applies to our syntax:

Symbols

@ !

First symbol "at" is a **prefix** and it is very useful for silencing commands warnings or outputs, for example:

Code

// Search for an ettin in range of 10 tiles // Suppress system warnings if @findtype 0x12 0 0 0 10 attack 'found' endif

The conditional of the script above will not return any output if an object of this type is not found, in case you remove the "at" warnings are no longer suppressed and a system message saying "findtype: type not found." will appear if <u>findtype</u> command is not able to locate an object matching given parameters.

Second symbol "exclamation" is a **suffix** and its usage is related to its command, for example on targeting functions it disables targeting queue. If a command supports that symbol you'll be able to verify the effects on its description.

Code

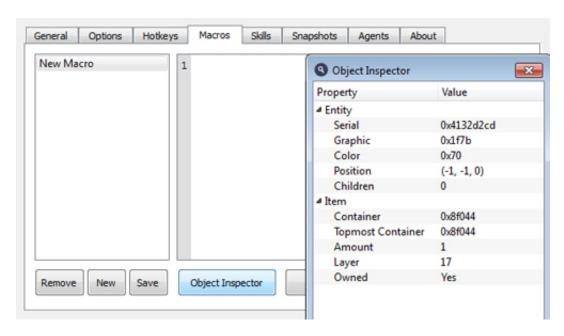
cast 'Heal' waitfortarget 500 // Disable targeting queue target! 'self'

Object Inspector

At this point you should be able to understand better how scripts are written in UOS, before trying out you must learn how to locate correctly object commands parameters.

What is an object?

An object is essentially a game item or mobile. Some commands will require object properties as parameters, there is an "Object Inspector" button on "Macros" tab, by pressing this button a target will appear in game so you can choose an object, a new window will appear showing you its properties:



Aliases

An alias is a name that you can assign to an object serial in order to make it easier to create scripts. Aliases will remain saved on your current profile, check the sample below:

Code

// Search for an object called 'Scissors'
if not @findobject 'Scissors'
 // Scissors does not exist, prompt for a new one in game
 promptalias 'Scissors'
endif
useobject 'Scissors'

Now the alias "Scissors" can be used in any command that requires a "serial" parameter, that way we do not have to insert the serial number. The sample below is also a valid approach for using aliases:

Code

// Set 'Scissors' alias value setalias 'Scissors' 0x28e9b2d1 useobject 'Scissors'

Layers

A few commands - such as <u>equipitem</u> and <u>findlayer</u> - require a layer number parameter. It is possible to grab that value by equipping an item and using the Object Inspector on it, however if you need the layer of an item you can't easily inspect, check the list below:

Right Hand: 1 Left Hand: 2 Shoes: 3 Pants: 4 Shirt: 5 Head: 6 Gloves: 7 Ring: 8 Talisman: 9 Neck: 10 Hair: 11 Waist: 12 Inner Torso: 13 Bracelet: 14 Facial Hair: 16 Middle Torso: 17 Earrings: 18 Arms: 19 Cloak: 20 Backpack: 21 Outer Torso: 22 Outer Legs: 23 Inner Legs: 24 Mount: 25 Shop Buy: 26 Shop Restock: 27 Shop Sell: 28

Bank: 29

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Commands

Abilities

Fly and Land

Start or stop flying.

Usage

// Start fly

// Stop

land

Set Ability

Toggle or enforce primary, secondary, stun or disarm ability.

Usage

setability ('primary'/'secondary'/'stun'/'disarm') ['on'/'off']

Sample

// Primary

// Prefix '@' to disable warnings

@setability 'primary'

// Secondary

setability 'secondary'

// Stun (Pre-AOS)

setability 'stun'

// Disarm (Pre-AOS)

setability 'disarm'

// Enforce primary ability on

setability 'primary' 'on'

// Enforce secondary ability off

@setability 'secondary' 'off'

Actions

Attack

Attack a specific mobile serial or alias.

Usage

attack (serial)

Sample

```
// Search for an ettin in range of 5 tiles if findtype 0x12 0 0 0 5 autotargetobject 'found' // Use virtue honor virtue 'Honor' // Attack attack 'found' endif
```

Clear Hands

Unequip character's hand.

Usage

clearhands ('left'/'right'/'both')

```
// Try to clear right hand
if not clearhands 'right'
sysmsg 'Unable to clear hands, item not found.'
else
sysmsg 'Right hand cleared.'
endif
```

Click Object

Perform a single click on a specific serial.

Usage

clickobject (serial)

Sample

// Search for a house sign if findtype 0xbd2 0 'ground' clickobject 'found' endif

Bandage Self

Shortcut to use bandage type and automatically target self.

Usage

bandageself

```
if not timerexists 'bandageSelf'
  // You can use createtimer function, settimer create and set a value
  settimer 'bandageSelf' 2000
endif
if hits != maxhits
  // Check if timer elpased 2 seconds
  if timer 'bandageSelf' >= 2000
     bandageself
  else
     // Reset timer
     settimer 'bandageSelf' 0
  // Check if poisoned
  if poisoned 'self'
     usetype! 0xf07
  endif
endif
```

Use Type

Use a specific item type (graphic).

It is possible to queue usetype command requests, you may use suffix "!" in order to bypass queue, otherwise it will add an item into system's use object queue every time usetype command finds an item matching given parameters. Go to Options (Tab) -> General (Tab) and configure "Use object queue limit" option, default is 5.

Usage

```
// Trigger
usetype (graphic) [color] [source] [range or search level]
// Cleaner
clearusequeue
```

Sample

```
// Use any bandage color from a specific container
// Suffix '!' to avoid queue
usetype! 0xe21 'any' 0x40116650
// Queued use of any bandage color from the ground in range of 2 tiles
usetype 0xe21 'any' 'ground' 2
// Use type from backpack if hits differs from max hits
if hits != maxhits
// Prefix '@' to disable system warnings
if @usetype! 0xe21
    waitfortarget 800
    target 'self'
endif
```

Use Object

Use a specific object serial or alias.

It is possible to queue useobject command requests, you may use suffix "!" in order to bypass queue, otherwise it will add that object into system's use object queue. Go to Options (Tab) -> General (Tab) and configure "Use object queue limit" option, default is 5.

Usage

```
// Trigger
useobject (serial)
// Cleaner
clearusequeue
```

```
// Use a specific object by serial
// Suffix '!' to avoid queue
useobject! 0x40116650
// Use object by name
if not findalias 'myObject'
sysmsg 'Select a new object.'
setalias 'myObject'
while not findalias 'myObject'
if not targetexists 'system'
stop
endif
endwhile
endif
```

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// Queue and use named object useobject 'myObject'

Use Once

Use a specific item type (graphic) from your backpack, only once.

It is possible to queue useonce command requests, you may use suffix "!" in order to bypass queue, otherwise it will add an item into system's use objects queue every time useonce command finds an item matching given parameters. Go to Options (Tab) -> General (Tab) and configure "Use object queue limit" option, default is 5. System automatically set use once items color: used (grey) and next (red).

Usage

// Trigger useonce (graphic) [color] // Cleaner clearuseonce

Sample

// Use any pouch color from backpack
// Suffix '!' to avoid queue
useonce! 0xe79 'any'

Move Item

Move an item serial or type from source to destination. It is possible to disallow stacking by using "!" suffix.

Usage

moveitem (serial) (destination) [(x, y, z)] [amount] moveitemoffset (serial) 'ground' [(x, y, z)] [amount] movetype (graphic) (source) (destination) [(x, y, z)] [color] [amount] [range or search level] movetypeoffset (graphic) (source) 'ground' [(x, y, z)] [color] [amount] [range or search level]

Sample

// Move specific item to backpack
moveitem 0x40116650 'backpack'

// Move righthand item to backpack
moveitem 'righthand' 'backpack'

// Move 100 gold from backpack to a ground location

// Use '!' to disallow stacking
movetype! 0xeed 'backpack' 'ground' 1950 50 0

// Move 200 gold from the ground in range of 2 tiles to backpack
movetype 0xeed 'ground' 'backpack' 0 0 0 'any' 200 2

// It can be used as a statement
if moveitem 'righthand' 'backpack'
sysmsg 'Right hand item moved to backpack!'
endif

Movement

Move your character to the given direction(s).

Usage

```
walk (direction)
turn (direction)
run (direction)
```

Sample

```
// Multiple directions
walk "North, East, East, West, South, Southeast"
// Single direction
turn "Northeast"
// Run 10 tiles to south
for 10
    run "South"
endfor
```

Use Skill

Use a skill by name.

Usage

useskill ('skill name'/'last')

```
if hits != maxhits
if yellowhits 'self'
useskill 'Spirit Speak'
elseif not poisoned 'self'
cast 'Heal' 'self'
else
cast 'Cure' 'self'
endif
```

Last updated on April, 2014.

Feed

Feed a given alias or serial with food name, graphic or group.

You can edit Data/foods.xml (File) in order to customize and/or add new food groups and types.

Usage

/*

Groups:

- Fish: Fish Steak, Raw Fish Steak;
- Fruits and Vegetables: Honeydew Melon, Yellow Gourd, Green Gourd, Banana, Lemon, Lime, Grape, Peach, Pear, Apple, Watermelon, Squash, Cantaloupe, Carrot, Cabbage, Onion, Lettuce, Pumpkin;
- Meat: Bacon, Cooked Bird, Sausage, Ham, Ribs, Lamb Leg, Raw Bird, Raw Ribs, Raw Lamb Leg, Raw Chicken Leg, Head, Left Arm, Left Leg, Torso, Right Arm, Right Leg.

feed (serial) ('food name'/'food group'/'any'/graphic) [color] [amount]

Sample

// Feed mount with any type of fruits or vegetables feed 'mount' 'Fruits and Vegetables' // Feed mount with a raw ribs feed 'mount' 'Raw Ribs' // Feed player with 2 fish steaks feed 'self' 0x97B 'any' 2

Rename

Request the server to rename a mobile.

Usage

rename (serial) ('name')

Sample

// Rename mount to Snorlax rename 'mount' 'Snorlax'

Show Names

Display corpses and/or mobiles names.

Usage

shownames ['mobiles'/'corpses']

Sample

// Display mobiles names shownames 'mobiles' // Display corpses names shownames 'corpses'

Toggle Hands

Arm and disarm an item.

Usage

togglehands ('left'/'right')

Sample

// Equip an item to the right hand layer // Press one time to arm togglehands 'right' // Press another time to disarm

Equip Item

Equip a specific item into a given layer.

You can grab the layer number by equipping your item into your paperdoll and using object inspector on it. It is possible to avoid move item queue by using the suffix "!".

Usage

equipitem (serial) (layer)

Sample

// Prompt for a new bow
promptalias 'bow'

// Check if selected bow exist
if @findobject 'bow'
equipitem 'bow' 2
endif

// You can also equip that bow without adding to the queue
equipitem! 'bow' 2

Toggle Mounted

Mount and dismount.

In case mount alias is not defined system will automatically prompt for a mount.

Usage

togglemounted

Equip Wand

Search for a wand inside your backpack and equip it.

Usage

/*

Spells:

- Clumsy;
- Identification;
- Heal;
- Feeblemind;
- Weaken;
- Magic Arrow;
- Harm;
- Fireball;
- Greater Heal;
- Lightning;
- Mana Drain.

*/

equipwand ('spell name'/'any'/'undefined') [minimum charges]

Sample

 $/\!/$ Equip heal wand from backpack, with a minimum of 5 charges equipwand 'Heal' 5

Agents

Vendors

Execute buy or sell list from vendors agent.

Usage

// Triggers buy ('list name') sell ('list name') // Cleaners clearbuy clearsell

Organizer

Execute a specific organizer profile.

Go to Agents (Tab) -> Organizer (Tab) -> New (Button). A new profile will be created, double click it in order to rename, for example "Reagents", add reagent types and amounts to your items list. Don't forget to set containers, both source and destination.

Usage

organizer ('profile name') [source] [destination]

Sample

// Check if you are already organizing if not organizing organizer 'Reagents' endif

Autoloot

Prompt a cursor to autoloot a specific corpse or container. Go to Agents (Tab) -> Autoloot (Tab) and to configure your Autoloot settings.

Usage

autoloot

Dress and Undress

Dress or undress temporary or specific profile.

Go to Agents (Tab) -> Dress (Tab) -> New (Button). A new profile will be created, double click it in order to rename, for example "Weapon", equip a weapon and add it to your profile items list. You can now call dress and undress commands to your new profile. In case no profile name is provided system will dress according to your temporary dress settings.

Usage

// Profile dress ['profile name'] undress ['profile name'] // Temporary dressconfig

Sample

// Toggle weapon
if not @findobject 'righthand'
 dress 'Weapon'
else
 undress 'Weapon'
endif
// Undress all equipments no matter the profile
undress

Toggle Autoloot

Enable and disable autoloot agent.

Usage

toggleautoloot

Toggle Scavenger Enable and disable scavenger agent.

Usage

togglescavenger

Counter

Compare the amount of a specific counter format.

Go to Agents (Tab) -> Counters (Tab), click the Insert (Button) and select an item in-game, you can edit its format by double clicking the Format (Field).

Usage

counter ('format') (operator) (value)

```
// Check for amount of garlics
if counter 'gc' == 0
  sysmsg 'Out of garlic!' 25
endif
// Craft loop
while counter 'kilt' != 10
  // Use sewing kit by graphic
  if usetype! 0xf9d
     // Gumps response
     waitforgump 0x77567887 15000
     replygump 0x77567887 16
    waitforgump 0x77567887 15000
     sysmsg 'Out of sewing kit!' 25
     break
  endif
endwhile
```

Aliases

System Aliases

System has a few predefined aliases that can be used on macros.

Usage

/*

backpack: player backpack

bank: player bank enemy: current enemy friend: current friend ground: world ground

last/lasttarget: last targeted mobile

lastobject: last used object, item or mobile lefthand: player equipped left hand item

mount: current mount

righthand: player equipped right hand item

self: player character

*/

Sample

// Open backpack
// Suffix '!' to avoid queue
useobject! 'backpack'
// Move wearing shield to bank
moveitem 'lefthand' 'bank'

Unset Alias

Unset and remove an existing alias.

Usage

unsetalias ('alias name')

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Set Alias

Define an existing alias with a given serial or another alias value.

Usage

setalias ('alias name') [serial]

Sample

// Prompt in-game for a new pet setalias 'pet' // Specific item serial setalias 'oldObject' 0x40116650 // Another existing alias setalias 'newObject' 'oldObject' // newObject is now equal both 0x40116650 and oldObject alias

Find Alias

Search if a specific custom alias name is already created.

Usage

if findalias ('alias name') endif

Sample

if not findalias 'weapon'
// Prompt for an alias
promptalias 'weapon'
endif
// Toggle weapon from paperdoll
if findobject 'righthand'
clearhands 'right'
else
equipitem 'weapon' 1
endif

Prompt Alias

Prompt in-game for a new alias and wait until it is selected.

Usage

promptalias ('alias name')

Conditions

Contents

Retrieve and compare the amount of items inside a container.

Usage

if contents (serial) ('operator') ('value') endif

Sample

if contents 'backpack' > 10 sysmsg 'More than 10 items inside backpack!' endif

In Region

Checks whether an item or mobile region type matches.
You can edit Data/regions.xml (File) in order to customize region names and guard zone lines.

Usage

if inregion ('guards'/'town'/'dungeon'/'forest') [serial] [range] endif

Sample

// Check if local player is in town
if inregion 'town'
msg 'bank'
endif
// Check if enemy is in guards zone in range of 10 tiles
autotargetobject 'enemy'
cast 'Lightning'
if innocent 'enemy' and inregion 'guards' 'enemy' 10
cancelautotarget
endif

Last updated on April, 2014.

Skills

Check for a specific local player skill value.

```
Usage
```

```
if skill ('name') (operator) (value)
endif
```

Sample

```
// Basic train Necromancy sample
if mana <= 10
  // Server must support buff icons, otherwise use injournal to detect trance
  while not buffexists 'Meditation'
     useskill 'Meditation'
     pause 1000
  endwhile
  pause 15000
endif
if skill 'Necromancy' >= 99
  cast 'Vampiric Embrace'
elseif skill 'Necromancy' >= 75
  cast 'Lich Form'
else
  cast 'Horrific Beast'
endif
```

Player Attributes

List of all possible conditional attributes for local player.

There are others mobile attributes that can be used by local player through the alias "self", check Object Attributes commands.

Usage

Attributes:

- Coordinates: x, y, z;
- Resistances: physical, fire, cold, poison, energy
- Status: str, dex, int, hits, maxhits, diffhits, stam, maxstam, mana, maxmana;
- System: usequeue, dressing, organizing;
- Others: followers, maxfollowers, gold, hidden, luck, tithingpoints, weight, maxweight, diffweight.

if (attribute) [operator] [value] endif

```
if hits <= maxhits
  bandageself
  // Check if missing hits (max hits - current hits) is greater than 30
  if diffhits > 30
     autotargetself
     cast 'Greater Heal'
  endif
endif
// Simple hidden check
if not hidden
```

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useskill 'Hiding' endif // Out of followers slots? if followers == followersmax msg 'a dog release' endif if usequeue >= 8 clearusequeue endif

Object Attributes

List of all possible conditional attributes for mobiles and items, including local character. In case you are looking for other attributes related to local character you can find more on Player Attributes commands.

Usage

/*

```
Attributes:
- All: serial, graphic, color, x, y, z;
- Items: amount;
+ Mobiles:
- General: name, dead, direction, hits, maxhits, diffhits, flying, paralyzed, poisoned, mounted, yellowhits, war;
- Notoriety: criminal, enemy, friend, gray, innocent, invulnerable, murderer.
if (attribute) [serial] [operator] [attribute] [serial]
```

Sample

endif

```
// Cast cure if poisoned
// No serial or alias is equal to use 'self'
if poisoned
  autotargetself
  cast 'Cure'
endif
// Check if enemy is female human
if graphic 'enemy' == 401
  // Tell her something nice
  msg 'Hey pretty!'
endif
// Check for an item serial amount, use it and target self
if amount 0x40116650 >= 20
  autotargetself
  useobject 0x40116650
endif
// Suppressor '@' to avoid in range warnings
if @inrange 'enemy' 10 and not dead 'enemy'
  // Check if enemy is flying or mounted
  if flying 'enemy' or mounted 'enemy'
     // Automate next target to enemy
     autotargetobject 'enemy'
     // Use bolas, do not queue
     usetype! 0x26ac
  endif
endif
```

Find Object

Search for an item by serial or alias.

Usage

if findobject (serial) [color] [source] [amount] [range] endif

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```
// Search for right hand object
// righthand is a system predefined alias, you can use a custom one
if findobject 'righthand'
    clearhands 'right'
endif
// Find an item by serial, any color, minimum amount of 10 and in range of 2 tiles
if findobject 0x40116650 'any' 'ground' 10 2
    // Move 10 items to character's backpack
    moveitem 0x40116650 'backpack' 0 0 0 10
endif
```

Distance and Range

Check for distance or range between your character and another mobile or an item.

Usage

if distance (serial) (operator) (value) endif if inrange (serial) (range) endif

Sample

Buffs

Check for a specific buff.

This function only works on servers supporting buff icons.

Usage

/*

Buffs:

- Abilities: bleed, mortal strike, disarm, dismount;
- Skills: hiding, meditation;
- Chivalry: divine fury, enemy of one;
- Magery: bless, night sight, strength, cunning, agility, curse, mass curse, weaken, feeblemind, clumsy, poison, paralyze, invisibility, polymorph, magic reflection, arch protection, protection, reactive armor, incognito;
- Ninjitsu: death strike, animal form;
- Necromancy: evil omen, corpse skin, blood oath, mind rot, pain spike, strangle;
- Spellweaving: gift of renewal, attune weapon, thunderstorm, essence of wind, ethereal voyage, gift of life, arcane empowerment;
- Others: disguised.

*/

if buffexists ('buff name') endif

Sample

if not buffexists 'Divine Fury' cast 'Divine Fury' endif

Property

Check for a specific item or mobile property, existence and value.

Usage

```
if property ('name') (serial) [operator] [value] endif
```

Sample

```
// Define a trash barrel
if not @findobject 'trash'
  promptalias 'trash'
endif
// Define a pouch
if not @findobject 'pouch'
  promptalias 'pouch'
endif
// Start loop searching for a ring on backpack
while @findtype 0x108a 'any' 'backpack'
  // Ring found, check for a desired property
  if property 'Faster Casting Recovery' 'found' == 3
     sysmsg 'Valid, move to pouch!'
     moveitem! 'found' 'pouch'
  else
     sysmsg 'Invalid, move to trash!'
     moveitem! 'found' 'trash'
  endif
  pause 1000
endwhile
```

Find Type

Search for an item type (graphic) and set alias "found".

Usage

if findtype (graphic) [color] [source] [amount] [range or search level] endif

```
// Search for 20 bandages of any color
if findtype 0xe21 'any' 'backpack' 20
  // Item found, move to the ground
  moveitem 'found' 'ground' 1250 489 0
else
  // Run buy agent list named 'Bandages'
  buy 'Bandages'
endif
// Find a cow of any color in range of 3 tiles and tame it
if findtype 0xe7 'any' 'world' 0 3
  // Automate next - incoming - target to an object
  autotargetobject 'found'
  useskill 'Animal Taming'
  // Pause for 10 seconds
  pause 10000
endif
```

Find Layer

Search for an equipped item.

You may use Object Inspector (Button) and click an equipped item to grab the layer value.

Usage

findlayer (serial) (layer)

Sample

// Prefix '@' to avoid system warnings if @findlayer 'self' 2 // Unequip shield @moveitem! 'found' 'backpack' endif

Skill State

Checks whether a skill is locked, up or down. Supported operators are: != or ==

Usage

skillstate ('skill name') (operator) ('locked'/'up'/'down')

Sample

if skillstate 'Magery' == 'down' setskill 'Magery' 'up' endif

Count Type

Amount comparison of item type inside a container. In order to ignore and do not count stacked amounts use the suffix '!'.

Usage

counttype (graphic) (color) (source) (operator) (value)

Sample

// Check if backpack contains 2 bank checks
// Use '!' suffix to ignore stacked amounts
if counttype! 0x14f0 'any' 'backpack' == 2
 sysmsg '2 bank checks found!' 86
endif
// Check if amount of heal potions inside backpack is greater than 10 and consider stacked amounts
if counttype 0xf0c 'any' 'backpack' > 10
 sysmsg 'More than 10 heal pots!' 86
endif

Count Type Ground

Amount comparison of item or mobile type on the ground. In order to ignore and do not count stacked amounts use the suffix '!'.

Usage

counttypeground (graphic) (color) (range) (operator) (value)

Sample

// Wait and check for at least 2 grey wolves in range of 8 tiles every 2 seconds // Prefix '@' to suppress warnings while @counttypeground 0x19 'any' 8 < 2 pause 2000 endwhile

Find Wand

Search for a wand and set alias "found".

Usage

/*

Spells:

- Clumsy;
- Identification;
- Heal;
- Feeblemind;
- Weaken;
- Magic Arrow;
- Harm;
- Fireball;
- Greater Heal;
- Lightning;
- Mana Drain.

*/

if findwand ('spell name'/'any'/'undefined') [source] [minimum charges] endif

Sample

// Search for a heal wand inside backpack with at least 5 charges and move to bank // Prefix '@' to avoid warnings if @findwand 'heal' 'backpack' 5 moveitem! 'found' 'bank' endif

In Party

Checks whether a mobile is in your party.

Usage

if inparty (serial) endif

Sample

// Checks if I'm in party if inparty 'self' partymsg 'Hello world!' endif

In Friend List

Checks whether a mobile is in your friend list.

Usage

if infriendlist (serial) endif

Sample

if infriendlist 'enemy'
sysmsg 'Current enemy in friend list'
else
attack 'enemy'
endif

War

Checks whether a mobile is in war mode.

Usage

if war (serial) endif

Sample

if war 'self' warmode 'off' endif

Gumps

Wait For Gump

Wait for a gump from server.

Usage

waitforgump (gump id/'any') (timeout)

Sample

useobject! 0x491093 // Wait for gump during 5 seconds waitforgump 0x1ec8c837 5000

Reply Gump

Reply a server gump.

Usage

replygump (gump id/'any') (button) [option] [...]

Sample

useobject! 0x491093 waitforgump 0x1ec8c837 5000 replygump 0x1ec8c837 1

In Gump

Check for a text in gump.

Usage

ingump (gump id/'any') ('text')

Sample

// Find for a text on that gump if ingump 0x1ec8c837 'Home' replygump 0x1ec8c837 2 endif

Gump Exists

Checks if a gump id exists or not.

Usage

if gumpexists (gump id/'any') endif

Sample

// Check if any gump exists
if gumpexists 'any'
sysmsg 'There is at least 1 gump'
endif
// Check for a specific gump id
if gumpexists 0x3029
replygump 0x3029 1
endif

Close Gump

Close a specific gump type by serial.

Usage

closegump ('paperdoll'/'status'/'profile'/'container') ('serial')

Sample

promptalias 'spy' paperdoll 'spy' pause 5000 closegump 'paperdoll' 'spy'

Journal

In Journal

Check for a text in journal, optional source name.

Usage

if injournal ('text') ['author'/'system'] endif

Sample

// Prefix '@' to suppress system warnings if @injournal 'outside the protection' 'system' // Do something... // Clear all journal @clearjournal endif

Clear Journal

Clear all journal texts.

Usage

clearjournal

Wait For Journal

Check for a text in journal until it finds a text or timeout, optional source name.

Usage

waitforjournal ('text') (timeout) ['author'/'system']

Sample

// Wait for a system message during 5 seconds waitforjournal 'too far away' 5000 'system'

Lists

Pop List

Remove an element from a named and existing list.

While using the suffix "!" system will remove all elements matching element value from the list.

Usage

poplist ('list name') ('element value'/'front'/'back')

Sample

createlist 'sample'

// Banana

pushlist 'sample' 'banana'

// Apple

pushlist 'sample' 'apple'

// Lemon

pushlist 'sample' 'lemon'

// Grape

pushlist 'sample' 'grape'

// Pop banana

poplist 'sample' 'banana'

// Now apple is our front element

// Pop front

poplist 'sample' 'front'

// Element apple no longer exists, check output

for 0 to 'sample'

sysmsg sample[]

endfor

// Remove all bananas from the list by adding '!' suffix

poplist! 'sample' 'banana'

Push List

Add a new element to an existing list.

Default position is "back", while using the suffix "!" system will only push an item to the list in case it does not already contains it (unique).

Usage

pushlist ('list name') ('element value') ['front'/'back']

Sample

createlist 'sample'

// Apple

pushlist 'sample' 'apple'

// Lemon

pushlist 'sample' 'lemon'

// Grape

pushlist 'sample' 'grape'

// Insert a new Grape before all other elements

pushlist 'sample' 'grape' 'front'

// Use suffix '!' for unique element values

while not pushlist! 'grape'

// Could not push because it already exists, remove all grapes

UOS - Scripting Documentation Last updated on April, 2014.

poplist 'sample' 'grape' endwhile

Remove List

Remove a named and existing list.

Usage

removelist ('list name')

Sample

// Create and populate a new list
createlist 'sample'
pushlist 'sample' 'Hello'
pushlist 'sample' 'World'
for 0 to 'sample'
 msg sample[]
endfor
// Remove list
removelist 'sample'
if not listexists 'sample'
 sysmsg 'List removed successfully!'
else
 // Unreachable code
endif

List Exists

Check if a named list exists.

Usage

if listexists ('list name') endif

Sample

// Create a new list in case it does not exists if not listexists 'sample' createlist 'sample' endif

List Count

Compare the size of an existing list with a given value.

Usage

if list ('list name') (operator) (value) endif

Sample

// Create new list in case it does not exists
if not listexists 'sample'
createlist 'sample'
endif
// In case list is empty append values
// Just a sample, it could be added to listexists statement block
if list 'sample' == 0
pushlist 'sample' 'Hello'
pushlist 'sample' 'World'
endif
for 0 to 'sample'
msg sample[]
endfor

Create List

Create a new named list.

Usage

createlist ('list name')

In List

Checks whether a list contains a given element.

Case sensitive is disabled by default, to enable it append "!" suffix to this command.

Usage

if inlist ('list name') ('element value') endif

Sample

if not listexists 'sample'
createlist 'sample'
endif
pushlist 'sample' 'Hello'
pushlist 'sample' 'World'
// Case sensitive disabled will return true
if inlist 'sample' 'hello'
sysmsg 'List contains element!'
endif
// Use suffix '!' to enable case sensitive
if inlist! 'sample' 'world'
// Unreachable code
endif

Clear List

Clear a list by name.

Usage

clearlist ('list name')

Sample

// Create and populate a list if not listexists 'sample' createlist 'sample' endif pushlist 'sample' 'Hello' pushlist 'sample' 'World' if list 'sample' > 0 sysmsg 'List is not empty!' endif // Clear list clearlist 'sample' // Now list is empty but still exists, use removelist command to delete! if listexists 'sample' sysmsg 'List exists!' endif if list 'sample' == 0 sysmsg 'List is now empty!' endif

Main

Object Inspector

Prompt to inspect in-game object.

Usage

info

Pause

Insert a pause/wait in milliseconds to your macro.

Usage

pause (timeout)

Sample

// 1 second pause 1000 // 0.5 second pause 500

Ping Server

Retrieve an approximated ping with server.

Usage

ping

Play Macro

Run a specific macro by name. Name parameter is case sensitive.

Usage

playmacro 'name'

Play Sound

Play sound by id or system .wav file.

System .wav files must be placed on AssistUO/Sounds (Folder).

Usage

playsound (sound id/'file name')

Sample

// System .wav file playsound 'name.wav' // Game sound id playsound 25

Resynchronize

Resynchronize game data with server. You must wait 0.8 seconds between resynchronize requests.

Usage

resync

Snapshot

Same as a print screen, command allows you to create a snapshot, it is also possible to add a delay before snapshotting.

You can configure snapshots settings via Snapshots tab.

Usage

snapshot [timer]

Sample

// Instant snapshot // Wait 5 seconds before snapshotting snapshot 5000

Toggle Hotkeys

Enable and disable hotkeys.

Usage

hotkeys

Last updated on April, 2014.

Where

Display coordinates and region name.

You can edit Data/regions.xml (File) in order to customize region names and guard zone lines.

Usage

where

Message Box

Show a simple message box with a custom title and body.

Usage

messagebox ('title') ('body')

Sample

messagebox 'Sample' 'Hello world!'

MapUO

Toggle MapUO visibility and start it if not open.

Usage

mapuo

Click Screen

Use your mouse to click coordinates on your screen. You can prevent moving the mouse by using suffix "!".

Usage

clickscreen (x) (y) ['single'/'double'] ['left'/'right']

Sample

// Single left click moving cursor at 200, 500 clickscreen 200 500 // Single right click without moving cursor at 400, 150 clickscreen! 400 150 'single' 'right'

Others

Paperdoll Buttons

Paperdoll buttons related commands.

Usage

// Open
paperdoll (serial)
// Buttons
helpbutton
guildbutton
questsbutton
logoutbutton

Sample

// Open my paperdoll paperdoll // Open friend paperdoll paperdoll 'friend' // Invoke quests button questsbutton // Logoff logoutbutton

Virtues

Use a virtue by name.

Usage

virtue ('honor'/'sacrifice'/'valor')

Sample

// Search for an ettin in range of 5 tiles
// Prefix '@' to suppress system warnings
if @findtype 0x12 0 0 0 5
autotargetobject 'found'
// Use virtue honor
virtue 'Honor'
endif

Messages

Send a text message.

Usage

msg ('text') [color]
headmsg ('text') [color] [serial]
partymsg ('text')
guildmsg ('text')
allymsg ('text')
whispermsg ('text')
yellmsg ('text')
sysmsg ('text')
chatmsg ('text')
emotemsg ('text')
promptmsg ('text')
timermsg ('timer name') [color]
waitforprompt (timeout)
cancelprompt

Sample

// Internal system message sysmsg 'Hello World!' // Party message partymsg "What's up?" // Over head public message msg 'Hi' // Red over head private message headmsg 'Hi' 26

Friend List

In-game prompt for add or remove a mobile from friend list.

You can also manage your friends via interface on Options (Tab) -> Friends (Tab).

Usage

addfriend removefriend

Context Menu

Request or wait for a context menu option.

Automatic generation available via Macros (Tab) recording.

Usage

contextmenu (serial) (option) waitforcontext (serial) (option) (timeout)

Ignore Object

Add a serial to the ignore list affecting findtype command.

Usage

// Trigger ignoreobject (serial) // Cleaner clearignorelist Last updated on April, 2014.

Set Skill

Set a skill into a specific state: locked, up or down.

Usage

setskill ('skill name') ('locked'/'up'/'down')

Sample

// Lock magery skill if skill 'Magery' == 105 setskill 'Magery' 'locked' endif

Wait For Properties

Request and wait for properties of an item or mobile.

Usage

waitforproperties (serial) (timeout)

Sample

setalias 'ring' 0x409c89fa

// Request and wait for 5 seconds
waitforproperties 'ring' 5000
if property 'Faster Casting Recovery' 0x409c89fa == 3
moveitem 'ring' 'backpack'
pause 1000
endif

Automated Color Pick

Setup an automated reply to the incoming dye color gump, allowing you to define dye tubs color. That command should be added prior to the action that opens the color pick gump.

Usage

autocolorpick (color)

Sample

if not @findobject 'dyes'
promptalias 'dyes'
endif
if not @findobject 'tub'
prompatalias 'tub'
endif
autocolorpick 35
useobject! 'dyes'
waitfortarget 1000
target! 'tub'

Wait For Contents

Wait for the server to send container contents, it will also try opening the container once.

Usage

waitforcontents (serial) (timeout)

Sample

// Ask for a new bag promptalias 'bag' // Try opening once and wait for contents for 2 seconds waitforcontents 'bag' 2000

Spells

Mini and Big Heal

Cast heal, cure, greater heal or arch cure upon a mobile.

Command uses managed casting, meaning it checks for disruptive actions and your are able to keep your hotkey pressed without checking "Do not auto interrupt" option.

Usage

miniheal [serial] bigheal [serial]

Sample

// Mini heal self miniheal // Big heal friend bigheal 'friend'

Cast

Cast a spell by id or name.

Usage

cast (spell id/'spell name'/'last')

Sample

// Magic Arrow and Fireball sample // Check 'Do not auto interrupt' option // Simple cast cast 'Magic Arrow' waitfortarget 650 target 'enemy' // Another simple cast cast 'Fireball' waitfortarget 1250 target 'enemy' // Check for curse and remove it // Prefix '@' to disable system warnings if @buffexists 'Curse' // Managed cast cast 'Remove Curse' 'self' endif // Automated target sample autotargetobject 'enemy' cast 'Lightning'

Chivalry Heal

Cast close wounds or cleanse by fire upon a mobile.

Command uses managed casting, meaning it checks for disruptive actions and your are able to keep your hotkey pressed without checking "Do not auto interrupt" option.

Usage

chivalryheal [serial]

Sample

// Chivalry heal self chivalryheal // Chivalry heal friend chivalryheal 'friend'

Targeting

Wait For Target

Wait for a new client target cursor from server.

Usage

waitfortarget (timeout)

Sample

cast 'Explosion'
// Wait for 2.5 seconds until target comes
waitfortarget 2500
// Not queued target on enemy
target! 'enemy'

Cancel Target

Cancel an existing cursor/target.

Usage

canceltarget

Last updated on April, 2014.

Direct Target

Instantly target a given alias, serial, type or location.

Default queue timeout is 5 seconds, use suffix "!" in order to bypass queue.

Usage

// Triggers
target (serial) [timeout]
targettype (graphic) [color] [range]
targetground (graphic) [color] [range]
targettile ('last'/'current'/(x y z)) [graphic]
targettileoffset (x y z) [graphic]
targettilerelative (serial) (range) [reverse = 'true' or 'false'] [graphic]
// Cleaner
cleartargetqueue

Sample

// Heal friend
cast 'Heal'
waitfortarget 250
// Queued
target 'friend'
// Bola enemy
usetype! 0x26ac
waitfortarget 500
// Suffix '!' to avoid queue
target! 'enemy'

Automated Target

Setup an internal wait for target and automatically target an object.

Automated target commands must preced an action that results in a cursor/target.

Usage

// Triggers
autotargetlast
autotargetself
autotargetobject (serial)
autotargettype (graphic) [color] [range]
autotargettile ('last'/'current'/(x y z)) [graphic]
autotargettileoffset (x y z) [graphic]
autotargettilerelative (serial) (range) [reverse = 'true' or 'false'] [graphic]
autotargetghost (range) [z-range]
autotargetground (graphic) [color] [range]
// Cleaner
cancelautotarget

Sample

// Cancel any previous automated target cancelautotarget
// Target self with a greater heal as soon as target is ready autotargetself cast 'Greater Heal'
// Target enemy with an explosion autotargetobject 'enemy'

UOS - Scripting Documentation Last updated on April, 2014.

cast 'Explosion'

Last updated on April, 2014.

Get Enemy

Get and set an "enemy" alias according to the given parameters.

You can edit Data/bodies.xml (File) in order to customize humanoids and transformations body values filtering; by default get command will always list possible targets and switch between them every time the macro is executed, make sure to put closest or nearest filter when needed. Nearest filter will switch between the 2 closest targets.

Usage

/*

Notorieties: any, friend, innocent, murderer, enemy, criminal, gray Filters: humanoid, transformation, closest, nearest */
getenemy ('notoriety') ['filter']

Sample

// Get closest humanoid enemy getenemy 'murderer' 'criminal' 'gray' 'closest' 'humanoid' if inrange 'enemy' 10 autotargetobject 'friend' cast 'Lightning' endif

Target Exists

Check for a specific or any cursor/target type.

In case you leave target type parameter blank, it will be considered the same as "any".

Usage

if targetexists ['any'/'beneficial'/'harmful'/'neutral'/'server'/'system'] endif

Sample

// Basic smart target last sample unsetalias 'smart' if targetexists 'harmful' setalias 'smart' 'enemy' endif if targetexists 'beneficial' setalias 'smart' 'friend' endif // Blank type is the same as 'any' if targetexists setalias 'smart' 'last' // Suppressor '@' to avoid system warnings if @findalias 'smart' and inrange 'smart' 10 // Suffix '!' to avoid queue target! 'smart' endif

Waiting For Target

Returns true whenever the core is internally waiting for a server target.

It is useful for creating macros that will not mess up with agents and options such as bone cutter and automated healing.

Usage

waitingfortarget

Sample

```
// Search for a pouch inside backpack
if @findtype 0xe79 'any' 'backpack'
useobject! 'found'
// Let's assume healing option is running, hold the cast until it applies the bandage
while waitingfortarget or targetexists 'server'
endwhile
cast 'Magic Trap'
waitfortarget 1200
target! 'found'
endif
```

Get Friend

Get and set a "friend" alias according to the given parameters.

You can edit Data/bodies.xml (File) in order to customize humanoids and transformations body values filtering; by default get command will always list possible targets and switch between them every time the macro is executed, make sure to put closest or nearest filter when needed. Nearest filter will switch between the 2 closest targets.

Usage

/*

Notorieties: any, friend, innocent, murderer, enemy, criminal, gray, invulnerable Filters: humanoid, transformation, closest, nearest */
getfriend ('notoriety') ['filter']

Sample

// Get a humanoid friend getfriend 'innocent' 'friend' 'humanoid' if inrange 'friend' 10 autotargetobject 'friend' cast 'Greater Heal' endif

Timers

Timer Value

Check for a named timer value.

Usage

if timer ('timer name') (operator) (value) endif

Sample

// Create a new timer
if not timerexists 'sample'
 createtimer 'sample'
endif
// Reset every 10 seconds
if timer 'sample' > 10000
 settimer 'sample' 0
endif

Timer Exists

Check if a named timer exists.

Usage

if timerexists ('timer name') endif

Sample

if not timerexists 'sample' createttimer 'sample' endif

Set Timer

Set a timer value and create in case it does not exist.

Usage

settimer ('timer name') (value)

Sample

if not timerexists 'sample'
settimer 'sample' 10000
endif
if skill 'Spirit Speak' < 100 and timer 'sample' >= 10000
useskill 'Spirit Speak'
settimer 'sample' 0
endif

Remove Timer

Remove a specific timer by name.

Usage

removetimer ('timer name')

Create Timer

Create a new named timer.

Usage

createtimer ('timer name')

Sample

// Create a new timer and start counting if not timerexists 'sample' createtimer 'sample' endif