Bob Commands

Instructions and functions to display moveable objects inside AOZ screens (Bitmap Objects)

Bob INDEX, IMAGE

Changes the image of a bob

Parameters:

INDEX: Index of the bob in the list of bobs of the screen

IMAGE: Index of the image in the "Images" bank

Bob INDEX, IMAGE\$

Changes the image of a bob

Parameters:

INDEX: Index of the bob in the list of bobs of the screen IMAGE\$: Name of the image in the "Images" bank

Bob INDEX, X, Y, IMAGE

Creates or sets the position of a bob

Parameters:

INDEX: Index of the bob to create or modify

X: Horizontal position of the bob in the screen Y: Vertical position of the bob in the screen

IMAGE: index of the image in the "Images" bank

Bob INDEX, X, Y, IMAGE\$

Creates or sets the position of a bob

Parameters:

INDEX: Index of the bob to create or modify

X: Horizontal position of the bob in the screen

Y: Vertical position of the bob in the screen

IMAGE\$: Name of the image in the "Images" bank

Bob Off INDEX

Destroys all or one bob

Parameters:

INDEX: Index of the bob to destroy. If absent, will destroy all the bobs in the current screen

Bob Update Off

Turns off the automatic bob coordinate update system. After it, all "Bob" instruction will no longer have a visible effect until an "Bob Update" instruction is useD

Bob Update On

Turns on the automatic bob coordinate update system. After it, the effect of all "Bob" instructions will be visible on display

Bob Clear

This AMOS-compatible instruction has no other effect in AOZ than to call "Bob Update"

Bob Draw

Limit Bob

Turns off all previous Limit bob instructions

Limit Bob X1, Y1, X2, Y2

Clip the display of all bobs to a limited area in the current screen *Parameters:*

X1: Horizontal coordinate of the top-left corner of the bounding box

Y1: Vertical coordinate of the top-left corner of the bounding box

X2: Horizontal coordinate of the bottom-right corner of the bounding box

Y2: Vertical coordinate of the bottom-right corner of the bounding box

Limit Bob INDEX, X1, Y1, X2, Y2

Clip the display of a specific bob to a limited area in the current screen *Parameters:*

INDEX: Index of the bob to clip in the list of active bobs

X1: Horizontal coordinate of the top-left corner of the bounding box

Y1: Vertical coordinate of the top-left corner of the bounding box

X2: Horizontal coordinate of the bottom-right corner of the bounding box

Y2: Vertical coordinate of the bottom-right corner of the bounding box

Limit Bob X, Y, WIDTH, HEIGHT

Clip the display of all bobs to a limited area in the current screen *Parameters:*

X: Horizontal coordinate of the left of the bouding box

Y: Vertical coordinate of the top of the bouding box

WIDTH: Width of the bounding box HEIGHT: Height of the bounding box

Limit Bob INDEX, X, Y, WIDTH, HEIGHT

Clip the display of a specific bob to a limited area in the current screen *Parameters:*

INDEX: Index of the bob to clip in the list of active bobs

X: Horizontal coordinate of the left of the bouding box

Y: Vertical coordinate of the top of the bouding box

WIDTH: Width of the bounding box HEIGHT: Height of the bounding box

Bob Alpha INDEX, ALPHA#

Set the transparency of a bob, also called "Alpha"

Parameters:

INDEX: Index of the bob in the list of active bobs

ALPHA#: Value of Alpha, from 0 (fully opaque) to 1 (fully transparent)

Bob Show INDEX

Make a bob visible on screen

Parameters:

INDEX: Index of the bob in the list of active bobs

Bob Hide INDEX

Make a bob invisible

Parameters:

INDEX: Index of the bob in the list of active bobs

Bob Scale INDEX, SCALEX#, SCALEY#

Changes the scale (zoom) of a bob

Parameters:

INDEX: Index of the bob in the list of active bobs

SCALEX#: Horizontal scale, 1 displays the bob at original size, 0.5 reduces it by half, 2 multiplies by two etc. Negative values will mirror the bob horizontally

SCALEY#: Vertical scale, 1 displays the bob at original size, 0.5 reduces it by half, 2 multiplies by two etc. Negative values will mirror the bob vertically

Bob Rotate INDEX, ANGLE#

Rotates a bob around it's hot-spot

Parameters:

INDEX: Index of the bob in the list of active bobs

ANGLE#: Angle to rotate with, either in degrees or radian depending on the use of the "Degree" or "Radian" instruction. AOZ use radians by default

Bob Skew INDEX, SKEWX#

Distorts a bob horizontally or vertically

Parameters:

INDEX: Index of the bob in the list of active bobs

SKEWX#: Horizontal skew, values should be experimented. 1 displays the bob in original proportions

Put Bob INDEX

Draws the bob in in the current screen as a stamp, at iots current position with it's current scale, rotation and skew *Parameters:*

INDEX: Index of the bob in the list of active bobs

Put Bob X, Y, IMAGE, SCALEX#, SCALEY#, ANGLE#

Draws an image from the image bank in the current screen

Parameters:

X: Horizontal coordinate of the paste

Y: vertical coordinate of the paste

IMAGE: Index of the immage in the "Images" bank

SCALEX#: Horizontal scaling, identical to the bob Scale parameter SCALEY#: Vertical scaling, identical to the bob Scale parameter ANGLE#: Angle of rotation of the image around it's hot-spot

Priority On

Turns on automatic sorting of the Z-order of the bobs in the current screen

Priority Off

Turnsoff automatic sorting of the Z-order of the bobs in the current screen

X Bob

Returns the horizontal coordinate of the bob

Value returned:

integer: Horizontal coordinate

Y Bob

Returns vertical coordinate of the bob

Value returned:

integer: Vertical coordinate

I Bob

Returns the index of the current image displayed by the bob

Value returned:

integer: Index of the image in the "image" bank

I Bob\$

TODO! Returns the name of the current image displayed by the bob

Value returned:

integer: Index of the image in the "image" bank

Priority Reverse On

Inverts the Z-Order of the bobs in the current screen if Priority is activated. After this instruction, bobs with the highest Y coordinate will be displayed in the back of others

Priority Reverse Off

Stops the inversion of the Z-Order of the bobs in the current screen if Priority is activated. After this instruction, bobs with the lowest Y coordinate will be displayed in the back of others

IsBob

Checks if a bob is defined without generating an error

Value returned:

boolean: true if the bob exists, false if not.

Get Bob ... To ... BOBINDEX, X1, Y1, X2, Y2, TAGS\$

Captures a portion of the current screen, create a transparency mask out of true black (RGB #000000) and add the image to the Images bank. (Deprecated, use "Get Image")

Parameters:

BOBINDEX: Index of the image to insert in the Images bank

X1: Horizontal coordinate of the top-left corner of the capture area

Y1: Vertical coordinate of the top-left corner of the capture area

X2: Horizontal coordinate of the bottom-right corner of the capture area

Y2: Vertical coordinate of the bottom-right corner of the capture area

TAGS\$: Unused for the moment

Get Boob ... To ... SCREENINDEX, BOBINDEX, X1, Y1, X2, Y2, TAGS\$

Captures a portion of the given screen, create a transparency mask out of true black (RGB #000000) and add the image to the Images bank. (Deprecated, use "Get Image")

Parameters:

SCREENINDEX: Index of the screen to capture from

BOBINDEX: Index of the image to insert in the Images bank

X1: Horizontal coordinate of the top-left corner of the capture area

Y1: Vertical coordinate of the top-left corner of the capture area

X2: Horizontal coordinate of the bottom-right corner of the capture area

Y2: Vertical coordinate of the bottom-right corner of the capture area

TAGS\$: Unused for the moment

Get Bob BOBINDEX, X, Y, WIDTH, HEIGHT, TAGS\$

Captures a portion of the current screen, create a transparency mask out of true black (RGB #000000) and add th image to the Images bank. (Deprecated, use "Get Image")

Parameters:

BOBINDEX: Index of the image to insert in the Images bank

X: The horizontal coordinate of the top-left pixel of the capture rectangle

Y: The vertical coordinate of the top-left pixel of the capture rectangle

WIDTH: The width of the capture rectangle HEIGHT: The height of the capture rectangle

TAGS\$: Unused for the moment

Get Bob SCREENNUMBER, BOBINDEX, X, Y, WIDTH, HEIGHT, TAGS\$

Captures a portion of the given screen, create a transparency mask out of true black (RGB #000000) and add the image to the Images bank. (Deprecated, use "Get Image")

Parameters:

SCREENNUMBER: Index of the screen to capture from BOBINDEX: Index of the image to insert in the Images bank

X: The horizontal coordinate of the top-left pixel of the capture rectangle

Y: The vertical coordinate of the top-left pixel of the capture rectangle

WIDTH: The width of the capture rectangle HEIGHT: The height of the capture rectangle

TAGS\$: Unused for the moment

Get Bob Palette MASK

Copy the colour palette from the Images bank to the current screen. (Deprecated, use "Get Images Palette") Parameters:

MASK: Mask of bits where each bit set to one represent a colour to capture and 0 a colour to ignore, up to 32 (optional)