WindowBlender

COLLABORATORS				
	<i>TITLE</i> : WindowBlender			
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Chapter 1

WindowBlender

1.1 WindowBlender Table Of Contents

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1.2 WindowBlender.application/WindowBlender

```
NAME
    WindowBlender -- Does various mappings in a window.
SYNOPSIS
   PUB=Screen/K,
    Shanghai/S,
    Depth/N,
    DISP=Display/H/K,
    NC=NColors/K/N,
    Formula/N,
    CY=Cycle/N,
    CS=ColorStep/N,
    CSA=ColorStepAdvance/S,
    PRED=RedPeriod/N/K,
    PGREEN=GreenPeriod/N/K,
    PBLUE=BluePeriod/N/K,
    Diag/K,
    HR=HighRate/D/K,
    LR=LowRate/D/K,
    NCB=NoColorBand/S,
    HP=HPlane/D/K,
    VI=Visual/D/K,
    NoSlow/S,
    JR=JuliaR/D/K,
    JI=JuliaI/D/K,
    MJ=MJIter/N/K,
    BD=BackDrop/S,
    Phase/D/K,
```

```
LP=LowerPeriod/N/K,
    HP=HigherPeriod/N/K,
    IUX=InitialUpperX/D/K,
    IUY=InitialUpperY/D/K,
    ILX=InitialLowerX/D/K,
    ILY=InitialLowerY/D/K,
    BHC=BHCount/N/K,
    BHD=BHDTime/D/K,
    BHM=BHMass/D/K,
    BHxv/D/K,
    BHyv/D/K,
    BHER=BHEscRadius/D/K,
    BHCR=BHContRadius/D/K,
    BHG=BHGravConst/D/K,
    BHP=BHPlacement/N/K,
    ScrWidth/N/K,
    ScrHeight/N/K,
    ScrOScan/N/K,
    ScrAutoScroll/S
        (Tooltypes and ReadArgs)
FUNCTION
    Opens a window, fills it with a mapping using
    the given formula, and cycles the colors using the given
    cycling method.
    Parameters can be taken from either the Workbench ToolTypes
    or CLI ReadArgs, depending how it was started.
INPUTS
    Screen/K
                             - Public Screen Name to open or use
                               (If not given and Display is not given,
                              will initially pop up an ASL screenmode
                              requester.)
                            - Depth of screen to open. Works in
    Depth/N
                              conjunction with Display.
                            - Display ID in hex. If given, opens its
    DISP=Display/H
                              own screen accordingly and uses
                               Screen as the public sceen name, if
                              given.
    Formula/N
                            - Formula # of selected operation.
    CY=Cycle/N
                            - A cycling function #.
                            - Color-stepping function (see NOTES) for
    CS=ColorStep/N
                              Blend cycling mode.
    CSC=ColorStepAdvance/S - Step color stepping (see NOTES)
                              for Blend cycling mode.
    PRED=RedPeriod/N/K
    PGREEN=GreenPeriod/N/K
    PBLUE=BluePeriod/N/K
                             - Period variation with time (Blend cycling
                              only.)
```

Diag	- Name of file/channel to dump diagnostic information.
HR=HighRate/D/K LR=LowRate/D/K	- sweeps per palette. Randomized between these two.
NCB=NoColorBand/S	- Turns on/off color band on right side.
HP=HPlane/D/K VI=Visual/D/K	- floating-point values for Oddesey calculations
NoSlow/S ations	- When TRUE, forces WindowBlender to do calcul
calculations	at a task priority of 0. (Defaults to doing
to be	to a "background" priority of -1 to allow it
	used as a "background backdrop" allowing oth
er	useful work to be done).
JR=JuliaR/D/K JI=JuliaI/D/K MJ=MJIter=/N/K	 Julia Real (Julia Set only) Julia Imaginary (Julia Set only) Max Mandelbrot/Julia Iterations (Mandelbrot, Julia, and Gravity only)
Phase/D/K	- Phase relationship of the three guns (ColorA
dvance #3 only) LP=LowerPeriod/N/K	- Lower value of period variation (ColorAdvanc
e #3 only) HP=HigherPeriod/N/K ce #3 only)	- Higher value of period variation (ColorAdvan
BHC=BHCount/N BHD=BHDTime/D BHM=BHMass/D BHxv/D BHyv/D BHER=BHEscRadius/D BHCR=BHContRadius/D BHG=BHGravConst/D BHP=BHPlacement/N	 Number of Black Holes Delta-time increments Default Masses of indivual black holes Initial x-component velocity of particle Initial y-component velocity of particle Escape radius to end iteration on Radius to contain black hole placement in Gravitational Constant to run system with Placement code of the black holes: o - circular 1 - circular with pinpoint 2 - linear 3 - random 4 - manual

RESULT

At prsent, nothing is returned.

NOTES

Color stepping steps the palette every CS entries, where CS is the color-stepping factor. That is, CS independent and interleaved

waves of color-churning will occur.

BUGS

If in cycle-forwards or cycle-backwards mode, sometimes the color palette is cleared if the Screen is changed. For now, just select another color mode.

The GUI for this version of WindowBlender is incomplete. However, enough functionality is present to acheive satisfactory results. These deficits will be addressed in a later release.