

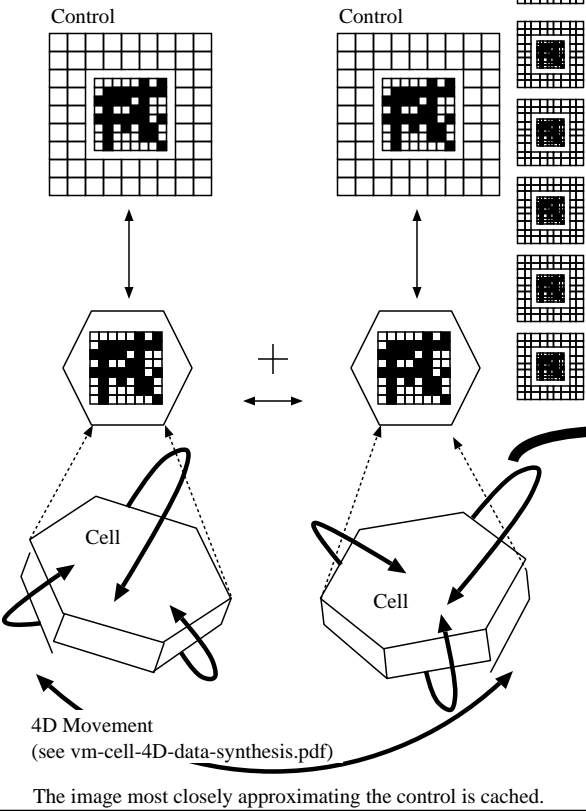
VM-Cell

Virtual Simulator for Cellular Interferometry: 3D Data Synthesis

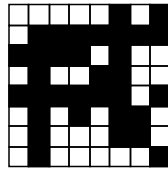
(c) Freeware S.A. Thigpen - <http://sthigpen.freeshell.org>

Combining cells: data synthesis

Time-Based Control (see [vm-cell-4D-control.pdf](#))



Data Synthesis Control generation similar to position control generation



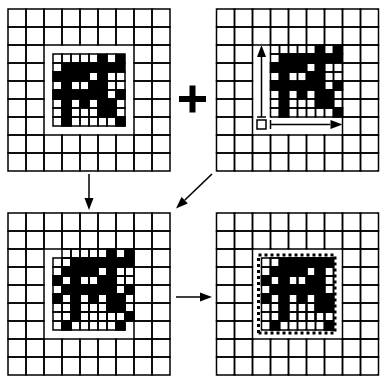
Virtual Control ideally matches photon-photon in present conditions

The final synthesized image with the highest fitness level most closely approximates the larger, "ideal lense" control.
(see [vm-cell-3D-control.pdf](#), [vm-cell-4D-control.pdf](#))

Quick & Dirty Method: "slide & swap"

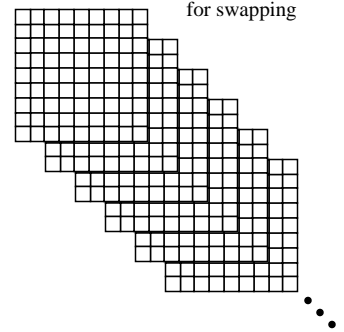
GA Nodes find combination of pixels to best match control by swapping pixels and shifting whole frames within parameters

"Sliding"

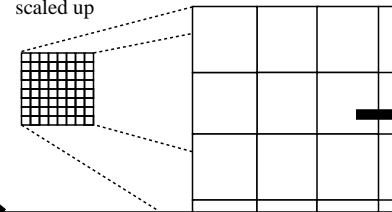


(resolution: x, y) (scale factor: s)

$\frac{(\# \text{ of images} - 1)}{xys} =$ possible combinations for swapping



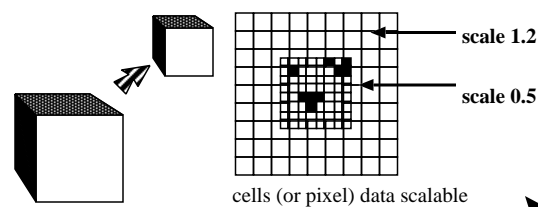
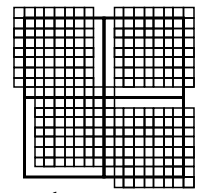
pixel values scaled up



"Swapping"

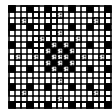
Pixels replace one another and do not overlap.

smaller bits part of enlarged pixels are swapped



more precise synthesis...

pixels in the center have greater weight -- ignoring fringe.



(for quick & dirty methods this can be ignored when simulating objects at great distances)

3D → 4D

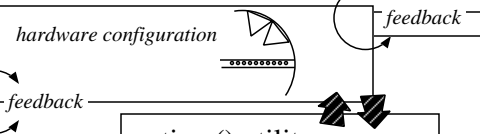
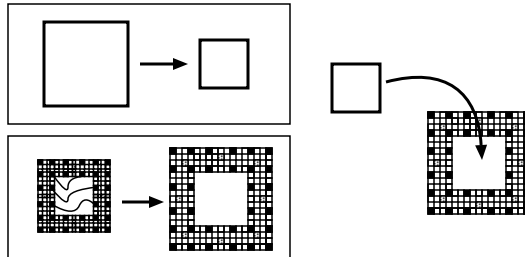
time based synthesis
synthesis of photons based on 3D position, patterns, accuracy and verification over time.

based on hardware interlacing and embedding moving and "spinning" forms (ie. spheres within spheres) to cover greater surface area and increase detection capability

refraction & "holo" swapping:

extensive conditions: dependent on robust verification and control feedback

rescaling sections and placing sections within sections



4D+ advance into hyperspace...

synthesis exploring the relationship between sensors super sensitive to vibrations capable of detecting sub-atomic events

quiver file format

pixel data synthesis

frequency & intensity
+ 3D photon angle of incidence
(see [vm-cell-pixel-datasynthesis.pdf](#))