

Specification Memorandum

Date: Tuesday, June 17, 2008

Subject: A Brief Specification for the SynIntegrated Test Applet

- Draws a 384×128 (at the maximum level of refinement) brush stroke texture centered in the output window
- Uses `CoffeeBeans_128` as the texture source image
- Uses the existing, variety-boosted, edge-constrained similarity map for `CoffeeBeans_128` as its similarity map
- Enables the user to view the texture at any level of refinement as it is built up in memory
- Enables viewing of the texture either in raw form, where pixel colors encode source image coordinates, or in resolved form, where these coordinates are looked up in the source image and the displayed pixel colors are the final output colors
- The dimensions of the work image active subspace at each refinement level are:

LEVEL	DIMENSION	LEVEL	DIMENSION
0	3×1	4	48×16
1	6×2	5	96×32
2	12×4	6	192×64
3	24×8	7	384×128

where 0 is the least refined level and 7 is the most refined

- Runs two correction passes per level, but this number is compile-time configurable through the symbolic constant `kNumCorrectionPasses`
- All edging occurs in wrap mode