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Evaluated over time with selectivity:

 $B_{i+1}(x, y) = \alpha.F_t(x, y) + (1 - \alpha).B_t(x, y) \text{ if } F_t(x, y) \text{ background}$  $B_{i+1}(x, y) = B_i(x, y) \text{ if } F_t(x, y) \text{ foreground}$