Present implementation of diffusive filling-in model demonstrates dynamics of neural signal spreading on the example of *Craik-O'Brien-Cornsweet Effect*. Filling-in process is implemented as a set of non-linear differential equations that control spreading of the activity of the Feature Contour System signals (brightness, color) within the image segments defined by the Boundary Contour System signals. The demo example simulates 1D filling-in process and allows the user to see the impact of luminance contrast in the COCE configuration on the output of the present implementation of diffusive filling-in model.