$L = 50$

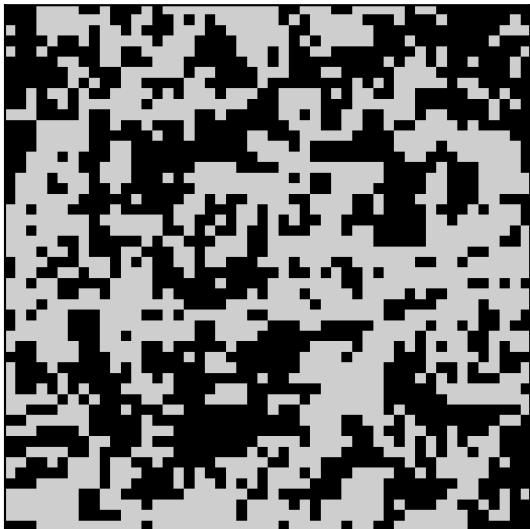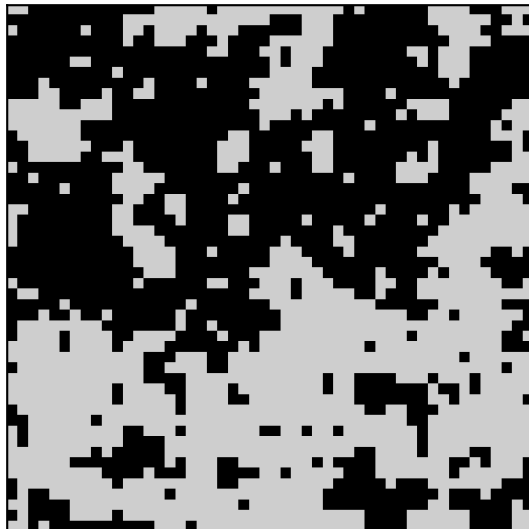$T = 3.5K > T_c$ $T = 2.4K \approx T_c$ $T = 1.0K < T_c$