1113-05-250 **Karen Gunderson*** (`karen.gunderson@umanitoba.ca`), Department of Mathematics, 342 Machray Hall, 186 Dysart Road, University of Manitoba, Winnipeg, MB R3T 2N2, Canada. *Time for graph bootstrap percolation.*

Bootstrap processes are types of cellular automata on graphs with two possible states, called 'healthy' and 'infected'. For a graph F and a collection of infected edges in a large complete graph, the F-bootstrap process is an update rule for the states of edges: infected edges remain infected forever and a healthy edge becomes infected if it is the only healthy edge in a copy of F. The initial set of infected edges is said to *percolate* if every edge is eventually infected. The notion of F-bootstrap percolation was introduced by Bollobás in 1968 with the name *weak-saturation*. I will give some of the history of the F-bootstrap process in the case where the initially infected edges are the edges of an Erdős-Rényi random graph and will discuss some new results on the time to percolation in the K_r-bootstrap process when the initially infected edges are chosen randomly. (Received August 24, 2015)