1070-03-288 Johanna N.Y. Franklin* (johannaf@gauss.dartmouth.edu), Department of Mathematics, 6188 Kemeny Hall, Dartmouth College, Hanover, NH 03755, and Keng Meng Ng. ω -r.e. randomness. Previously, we strengthened the notion of Martin-Löf randomness by requiring that a random real avoid not only all Martin-Löf tests but all tests whose components are *n*-r.e. sets of open sets for a fixed *n*. Now we extend this notion to that of *f*-r.e. randomness for any recursive function *f* by requiring that the k^{th} component of a test be an f(k)-r.e. set of open sets for each *k*. We further say that a real is ω -r.e. random if it is *f*-r.e. random for every recursive *f*. Here, we present some basic results on ω -r.e. and *f*-r.e. randomness and describe the relationship of the former to other strong randomness notions. (Received February 14, 2011)