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**Tyler Hays\*** (tyhays@gmail.com) and **Luke Naftz** (lnaftz@gmail.com). *The Total Coloring Game*. Preliminary report.

We investigate a variation on competitive graph coloring called total game coloring in which two players take turns coloring uncolored vertices and edges of a graph  $G$  while respecting certain restrictions. We define a generalization of the game chromatic number of a graph  $G$  called the *total game chromatic number*, denoted  $\chi_g''(G)$ . We prove the bounds  $\chi_g''(F) \leq \Delta(F) + 4$  for forest  $F$ ,  $\chi_g''(G) \leq \Delta(G) + 3k + 2$  for chordal graphs with  $\omega(G) = k + 1$ , and  $\chi_g''(G) \leq \Delta(G) + 7$  for maximally outerplanar graphs. (Received September 09, 2012)