1023-05-1125Daniel Kral and Robin Thomas\* (thomas@math.gatech.edu), School of Mathematics, Georgia<br/>Tech, Atlanta, GA 30332. Coloring graphs on surfaces with all faces even. Preliminary report.Let G be a graph drawn (without crossings) on a fixed surface such that every face is bounded by a walk of even length,<br/>and let k be an integer. Can G be properly k-colored? This question is interesting only when k = 3. We settle that case<br/>by proving a coloring extension theorem that implies a polynomial-time algorithm. (Received September 25, 2006)