1058-05-97 **H. A. Kierstead*** (kierstead@asu.edu), AZ , and **William Cushing** (wcushing@asu.edu), AZ. *Planar graphs are 1-relaxed, 4-choosable.*

Let $G = (V, E)$ be a graph. A k-list assignment for G is a function L that assigns each vertex v a set $L(v)$ of k colors. An L-coloring is a vertex coloring f (not necessarily proper) such that $f(v) \in L(v)$ for every vertex $v \in V$. A vertex coloring f of G is d-relaxed if every color class $X = f^{-1}(\alpha)$ induces a subgraph $G[X]$ with maximum degree at most d. The graph G is d-relaxed, k-choosable if for every k-list assignment L there exists a d-relaxed L-coloring of G. When $d = 0$ then this is the usual notion of k-choosability.

Thomassen proved that every planar graph is 5-choosable and Voigt constructed a planar graph that is not 4-choosable. We prove that every planar graph is 1-relaxed, 4-choosable. (Received February 07, 2010)