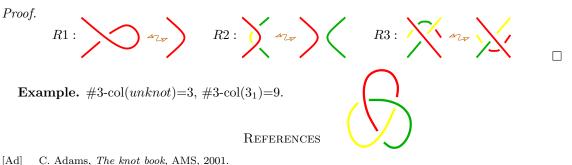


## 3-colorings of links

**Def.** A 3-coloring of a link diagram is a coloring of its arcs into three colors (red, yellow, green) such that at each crossing the three incident arcs are either all of the same color or all of three different colors.

Theorem. The number of 3-colorings is a link invariant.



[Ka] L. Kauffman, Virtual knot theory, European Journal of Combinatorics, 20 (1999) 663–690.