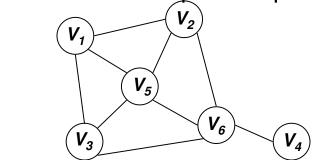


Canonical Example: Graph Coloring



- Consider N nodes in a graph
- Assign values V₁,..., V_N to each of the N nodes
- The values are taken in {*R*,*G*,*B*}
- Constraints: If there is an edge between i and j, then V_i must be different of V_i