Map coloring
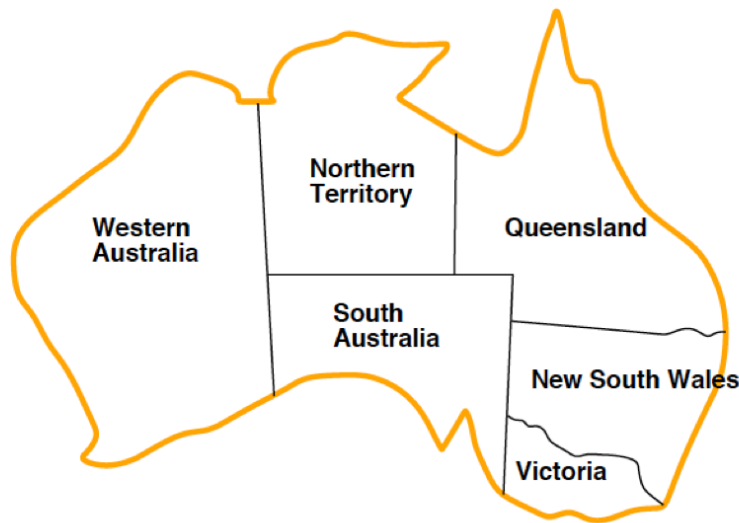
Monday, September 26, 2016   9:49 AM

Green
Red
Blue

Variables $\{WA, NT, Q, NSW, V, SA, T\}$

Domains: $D_i = \{R, G, B\}$ for all X_i

Constraints: "Adjacent territories have different colors"

$(WA, NT) = \{R, G\}, \{R, B\}, \{B, G\}, \{B, R\}, \{R, G\}, \{R, B\}$

$(NT, Q) = \{$

Marcos: $\neq$

WA $\neq$ NT
NT $\neq$ Q

> ~~Edite~~ write a parser
     & a language

· Constraint Graph ~ visualization strategy
     - Nodes: variables & constraints
     - Arcs: link variables to constraints

Binary Constraints: 2 variables

Unary constraints: $Q = \{R\}$

High-Order constraints: $(T = SA$ or $T = V)$