



Instructor: Prof. Dr. techn. Wolfgang Nejdl

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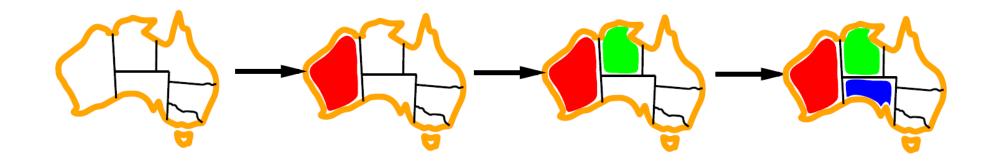


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[These slides were created by Dan Klein and Pieter Abbeel for CS188 Intro to AI at UC Berkeley. All materials are available at http://ai.berkeley.edu.]

Ordering: Minimum Remaining Values

- Variable Ordering: Minimum remaining values (MRV):
 - Choose the variable with the fewest legal left values in its domain



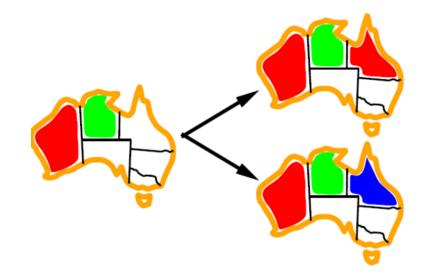
- Why min rather than max?
- Also called "most constrained variable"
- "Fail-fast" ordering

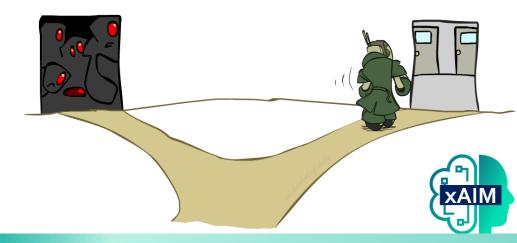




Ordering: Least Constraining Value

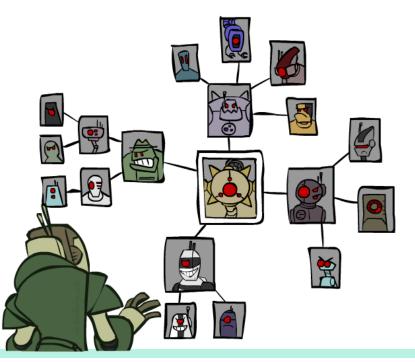
- Value Ordering: Least Constraining Value
 - Given a choice of variable, choose the *least constraining value*
 - I.e., the one that rules out the fewest values in the remaining variables
 - Note that it may take some computation to determine this! (E.g., rerunning filtering)
- Why least rather than most?
- Combining these ordering ideas makes 1000 queens feasible







Advanced Topics in Al Next: Tree-Structured CSPs





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