

National Outdoor Leadership School

- Founded in 1965.
- Leadership, teamwork, outdoor skills, expeditioning.
 - 3000 field expedition students per year.
- 150,000 program days.





Wilderness Medicine Institute of NOLS

- First course in 1990.
- Teach WFA, WFR, WEMT and advanced courses.
- 13,000 students/yr.
 - 15 countries.
 - 4 languages.







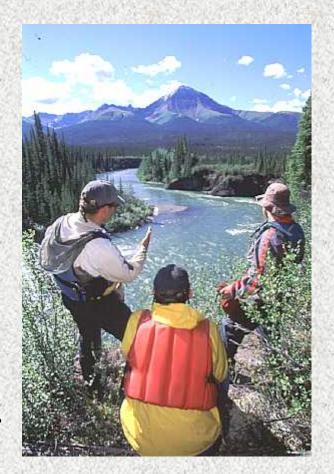
"Judgment in my estimation is the greatest safety factor you can have. Not only while the students are taking your course but for their safety after they leave your school and might do some of these things on their own."

Paul Petzoldt



Mindful Practice

- The ability to purposefully observe ourselves in the midst of the complexity and chaos of the moment.
- The presence of mind to be open, curious, flexible and present when faced with anxiety, uncertainty and chaos.



Decision-Making Models

- Rules of Thumb (Heuristics)
- Protocols
- Analysis
- Expertise



Rules of Thumb

- Heuristics
- Mental shortcuts
- Problem solving aids



- Limited by
 - o the accuracy or relevance of the rule of thumb.
 - o accuracy of the pattern recognition.

Protocols

- Pre-determined decisions
- Recipes

- Limited by
 - the relevancy and accuracy of the protocol.

NOLS FIELD MEDICAL PROTOCOLS: DRUG ORDERS, FIELD TREATMENT PRACTICES & EVACUATION GUIDELINES 2010 Master Edition

By Herb Ogden, M.D. and Tod Schimelpfenig. Drew Leemon, editor

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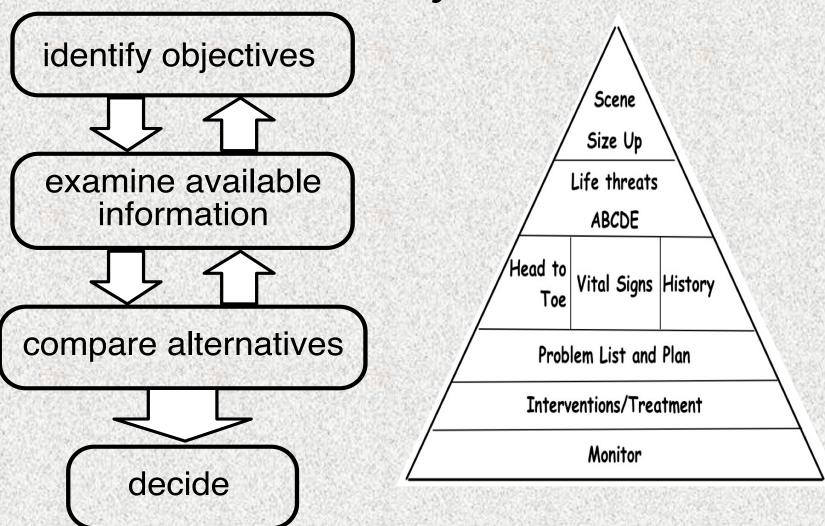
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NOLS Field Medical Protocols 2010

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Analysis

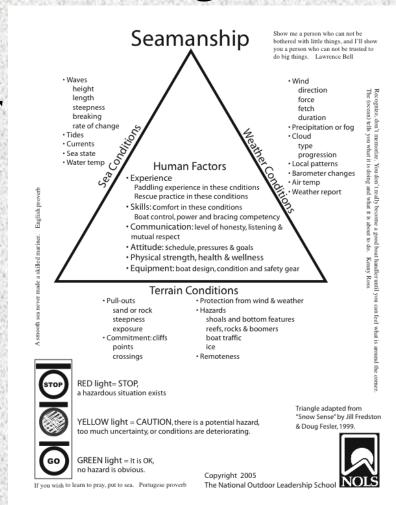


From Ian McCammon. NOLS Leadership Educators Notebook 2004

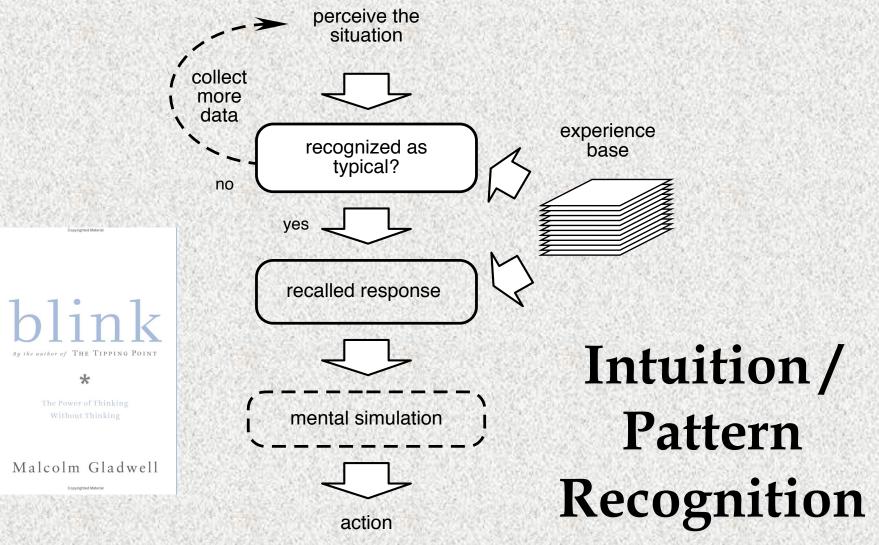
Information Gathering

- Rational Choice Model
 - Gather information, consider alternatives, decide.

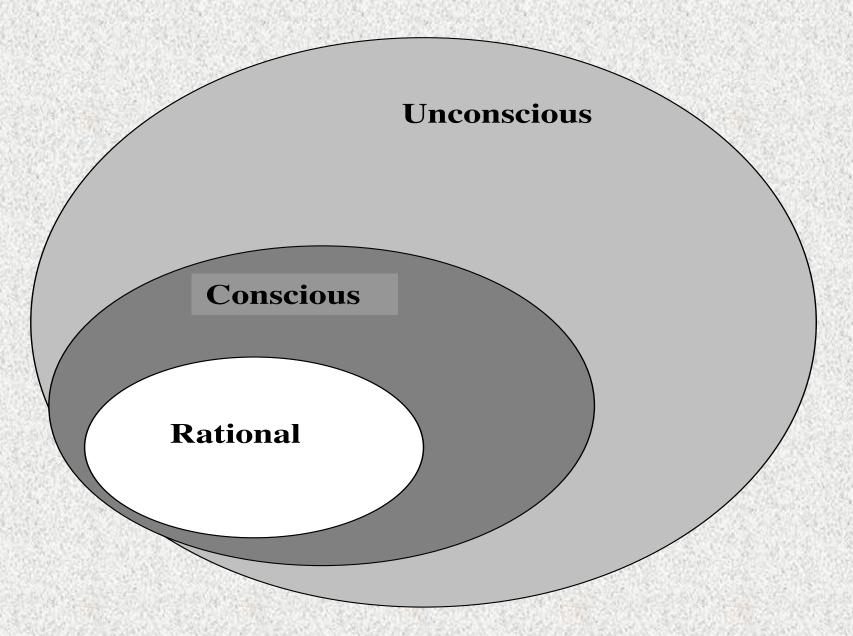
- Limited by
 - biases in selection and observation.
 - o the illusion of thoroughness.



Expertise



From Ian McCammon. NOLS Leadership Educators Notebook 2004



Sex, Drugs and White Death. McCammon 2004.

Expertise



- Experience-based
- Pattern Recognition
- Naturalistic Decision
 Making
- Mental Simulation

- Limited by
 - o actual experience.
 - o flawed patterns.
 - o lenient learning environments.

Break

- Questions?
- Observations?
- Comments?
- Critique?



• Errors of Skill

- Errors of Perception
- Errors of Thought

• Errors of Skill



- o Incomplete mastery of skills
- o Miscommunication
- Wicked environments

Errors of Perception



- o Pattern Recognition Errors
- Illusion of Attention
- Illusory Causation

• Errors of Thought

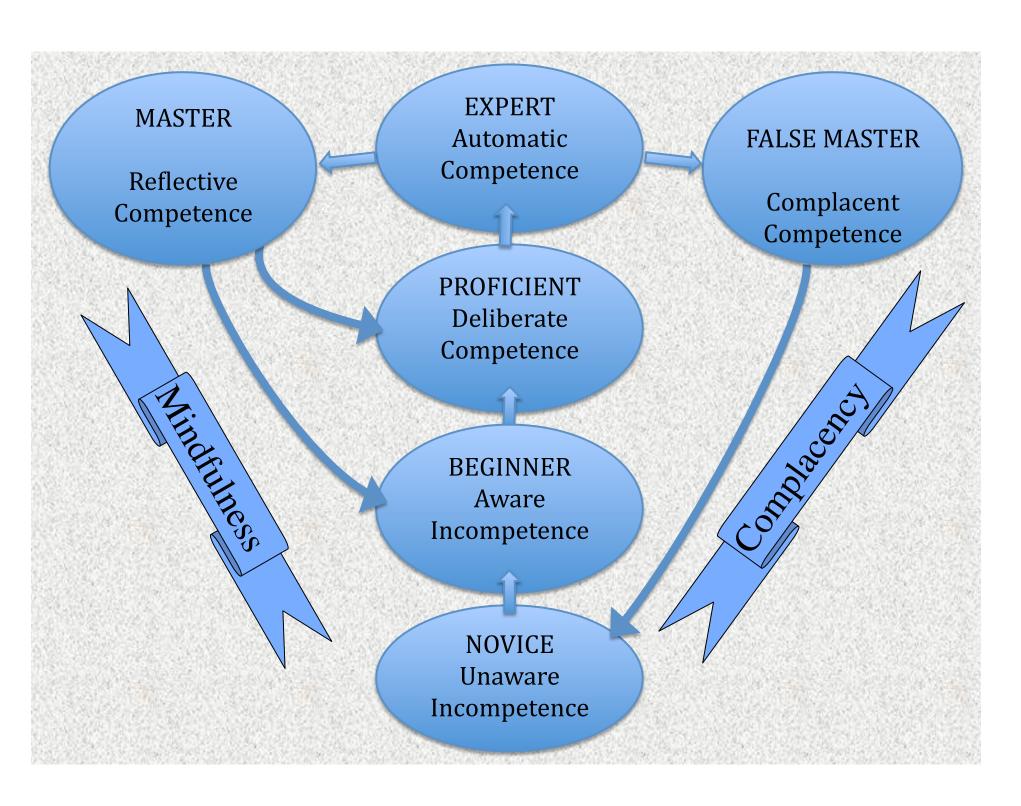


- o Illusion of Knowledge
- Illusion of Cause
- Emotional Hooks

Break

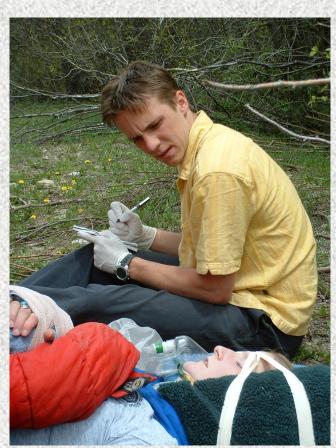
- Questions?
- Observations?
- Comments?
- Critique?

The Expertise Model (Revisited)



Making Good Decisions

- Use protocols
- Situational awareness
- Tolerate uncertainty
- Be self-aware



- Use your team
- Communicate
- Seek feedback
- Get good info

Be mindful and intentional



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