

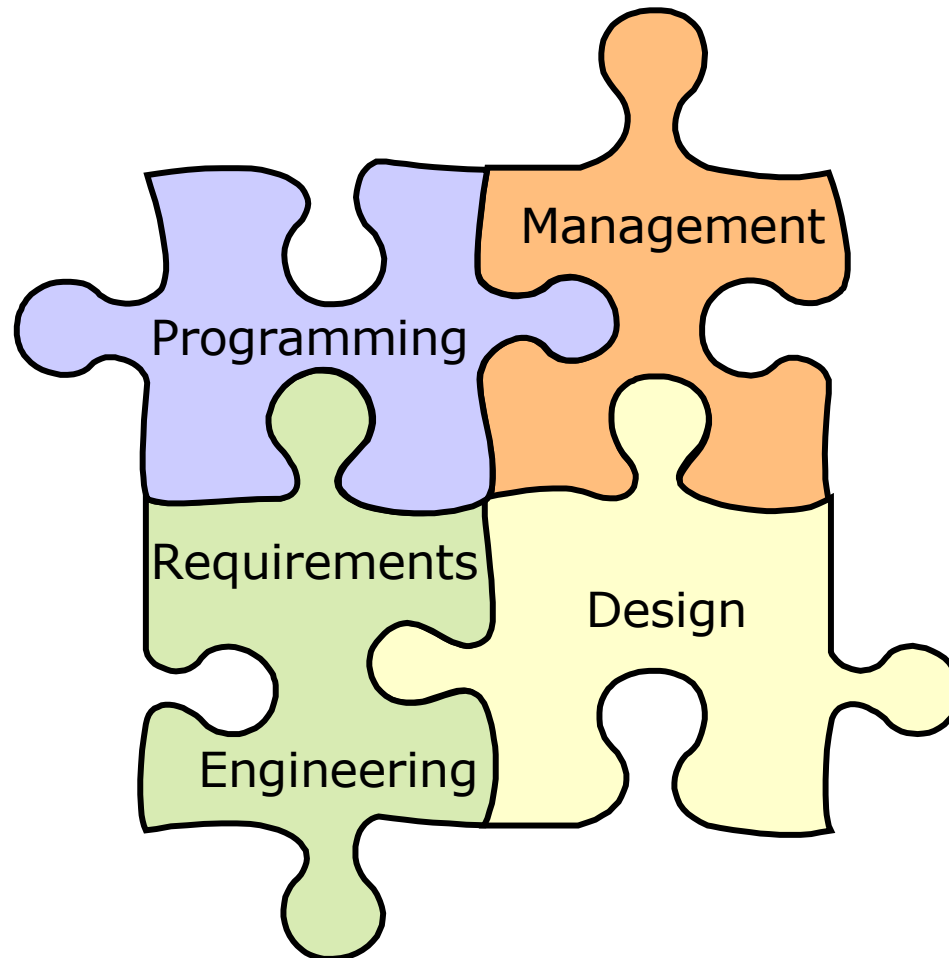
Using Expertise as a Framework for Evaluating Requirements Technology

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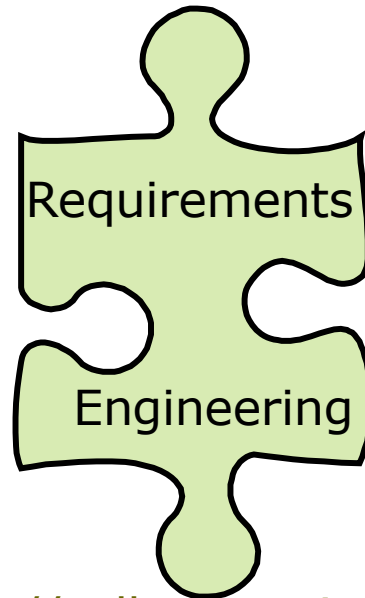
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The Big Picture: SE Expertise



<http://calla.ics.uci.edu/expertise/>

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Generally speaking...

The aim of requirements engineering (RE) research is to produce technologies to help professional software developers elicit, specify, analyse, validate, communicate, and manage requirements more effectively.

Do they help?



Our Position

- A tool or method that is helpful enables a requirements engineer to perform a job more expertly.
- We propose to use expertise as a basis to conduct comparative evaluations of requirements technology.



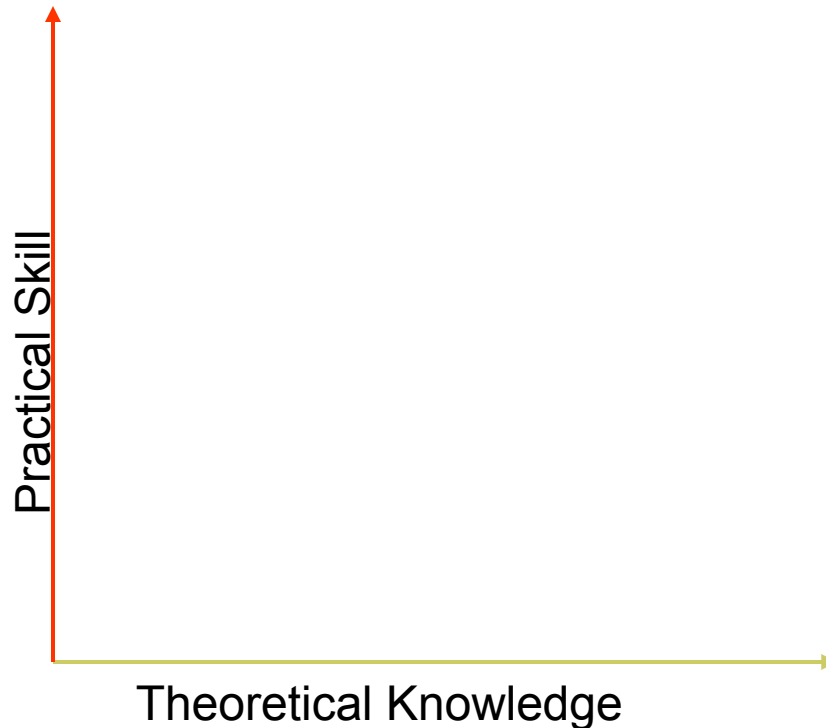
But first...

- Propose a definition of expertise
- Develop a framework.

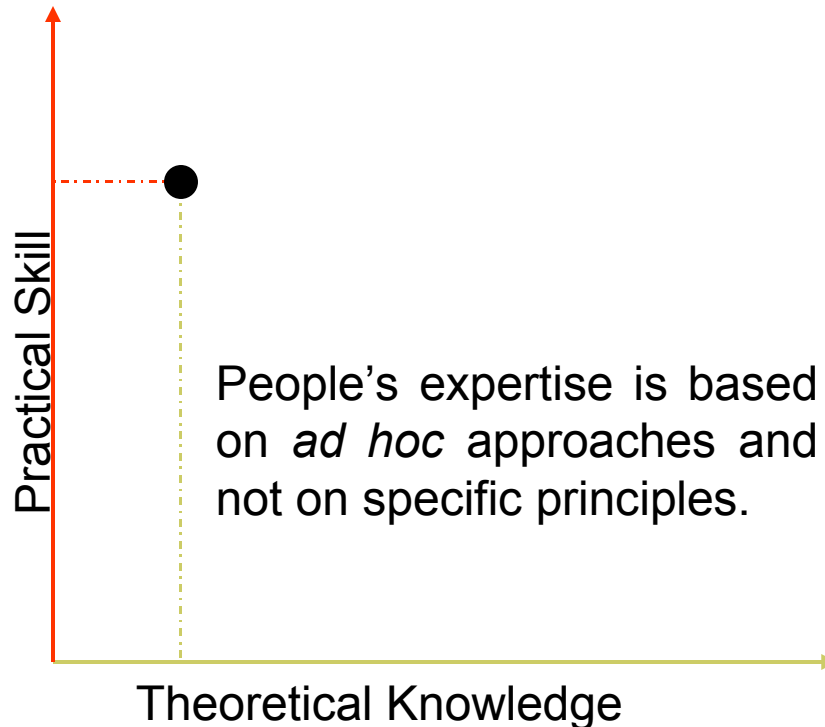
We could then evaluate technologies.



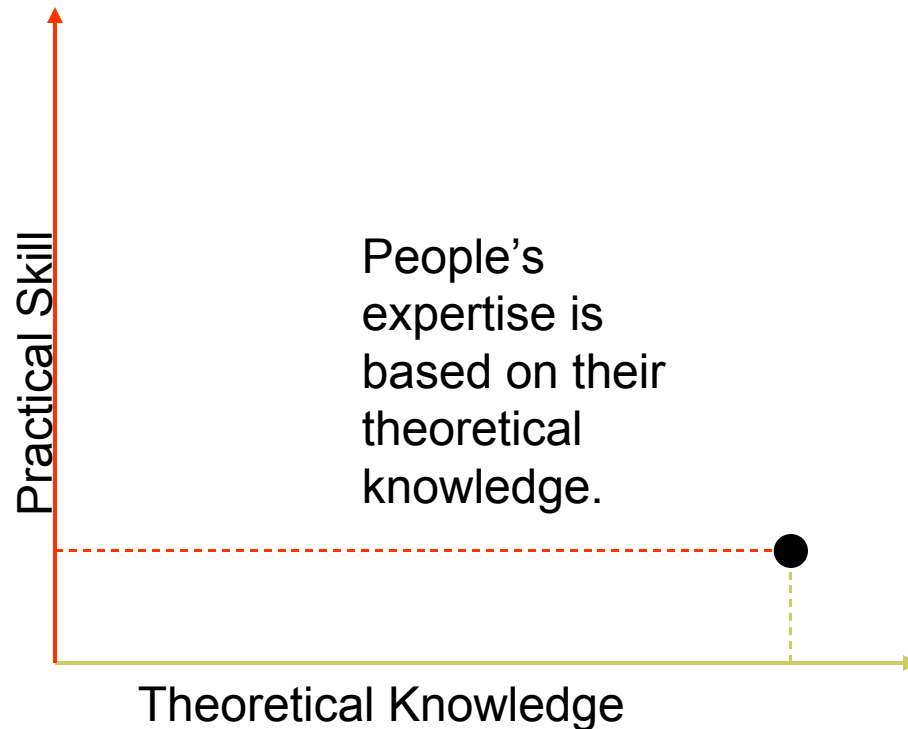
The Nature of Expertise



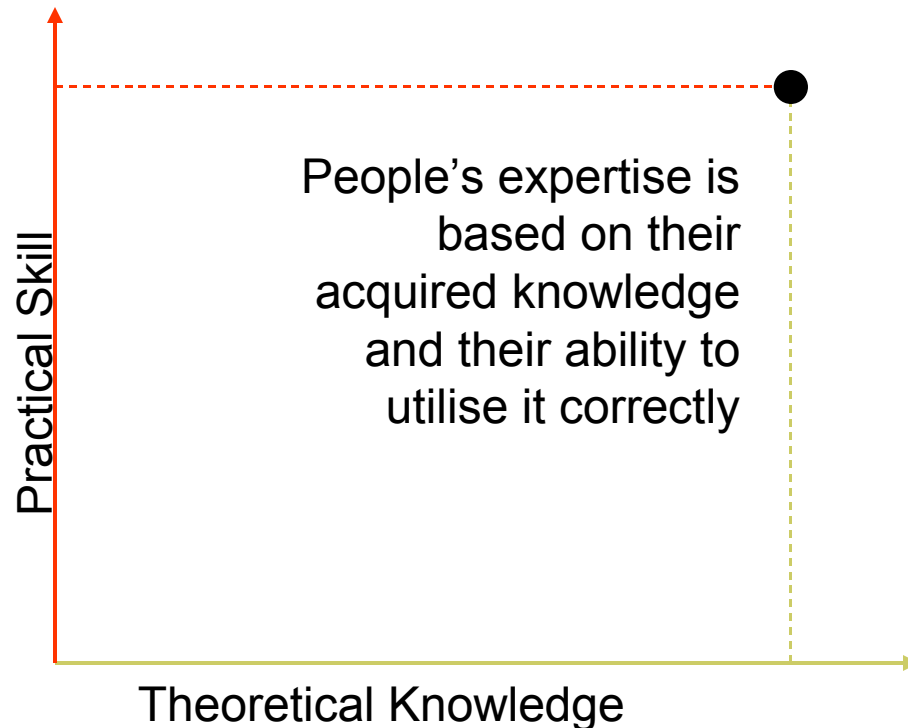
The Nature of Expertise



The Nature of Expertise



The Nature of Expertise



A Definition of Expertise

Expertise (knowledge, skill, domain)

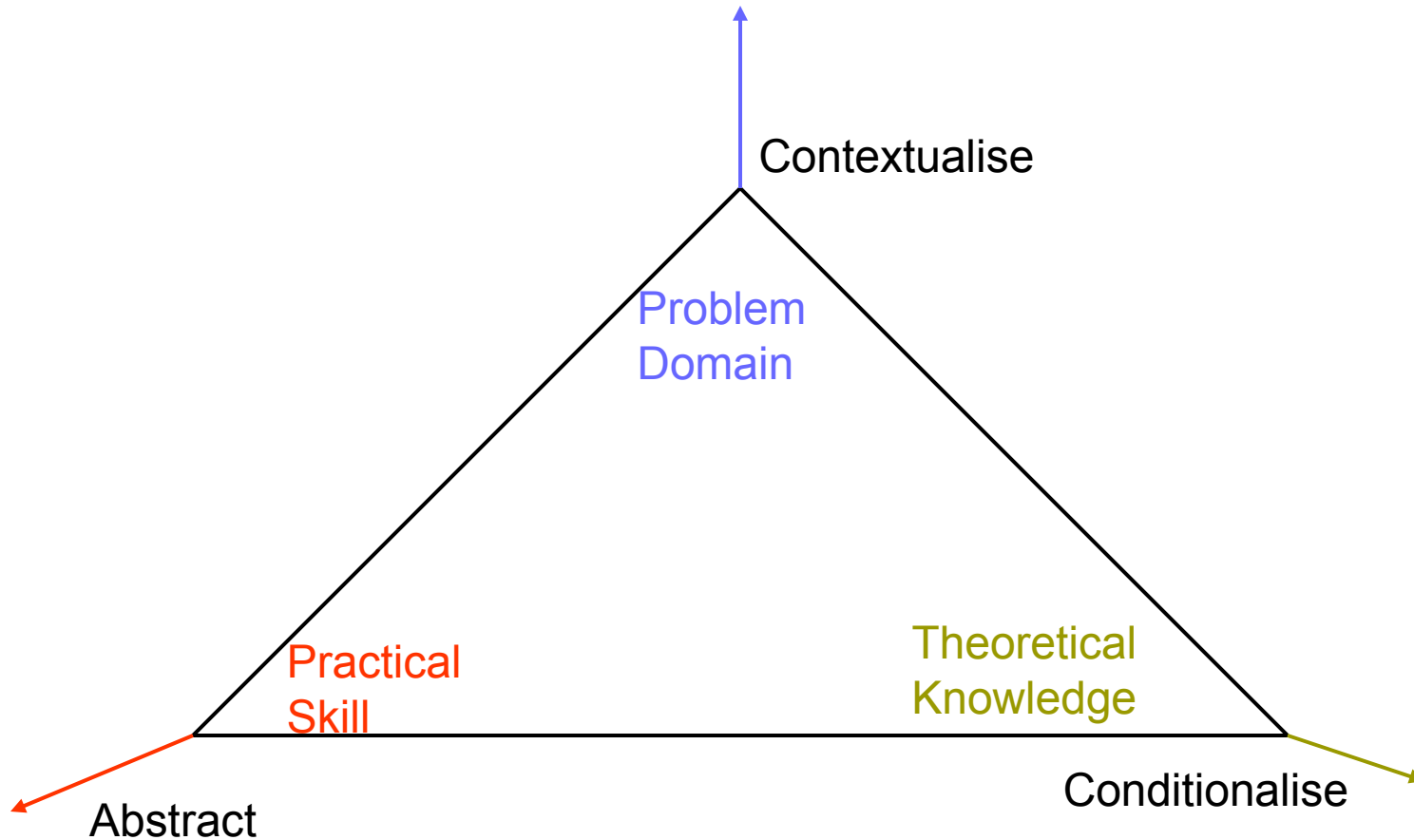


A Definition of Expertise

Performance = Expertise (knowledge, skill, domain)



Proposed Expertise Framework



Based on Literature...

RE Tech.	Abstract	Contextualise	Conditional Knowledge
Ethnography	x	✓	x
Use case	✓	x	✓
Scenarios	x	✓	x
Traceability Matrix	✓	✓	✓



You can participate..

- Fill in the survey and volunteer for the interview...

Thanks!

