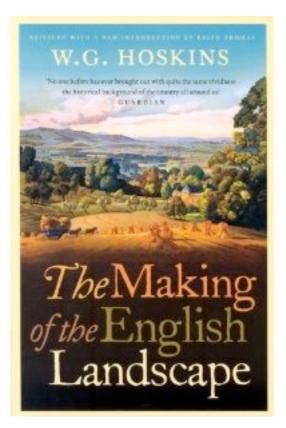
User Needs and Expectations

Adrian Leaman

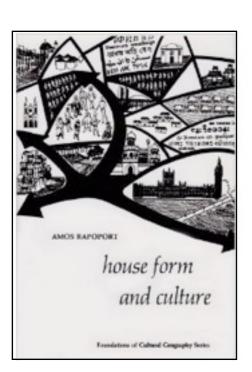
Usable Buildings Trust | Building Use Studies

Presentation to USE, University of Northumbria, Thursday Nov 10, 2011

Influences ...



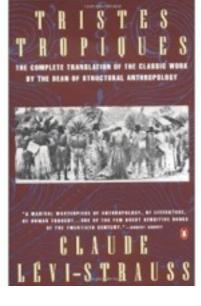
W.G. Hoskins



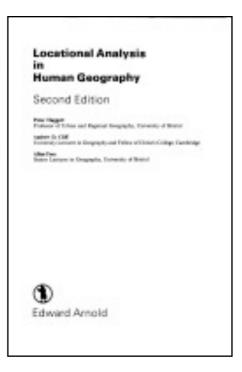
Amos Rapoport



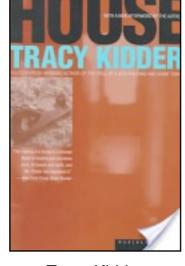
D'Arcy Thompson



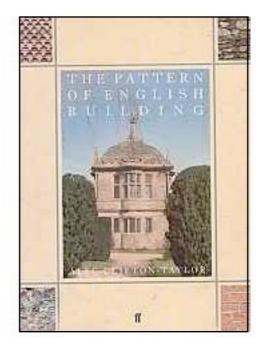
Claude Levi-Strauss



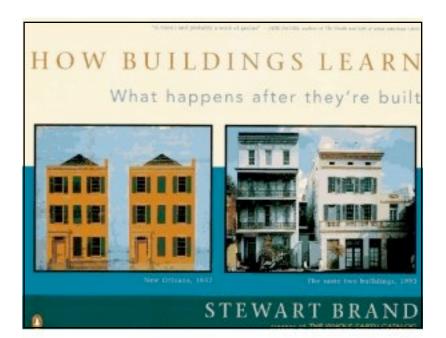
Peter Haggett and geographers like Bill Bunge and David Harvey.



Tracy Kidder



Alec Clifton-Taylor



Stewart Brand

Likes ...



House at Grizedale, 1900 C.F.A. Voysey

"Never look at an ugly thing twice. It is fatally easy to get accustomed to corrupting influences."

C.F.A. Voysey



University of Sunderland School of Computing, BDP, 1995



Kingsmead Primary School, Northwich, Cheshire, White Design, 2004

... and dislikes



St John's House, Bootle 1971 Occupied 1981 Demolished 2001



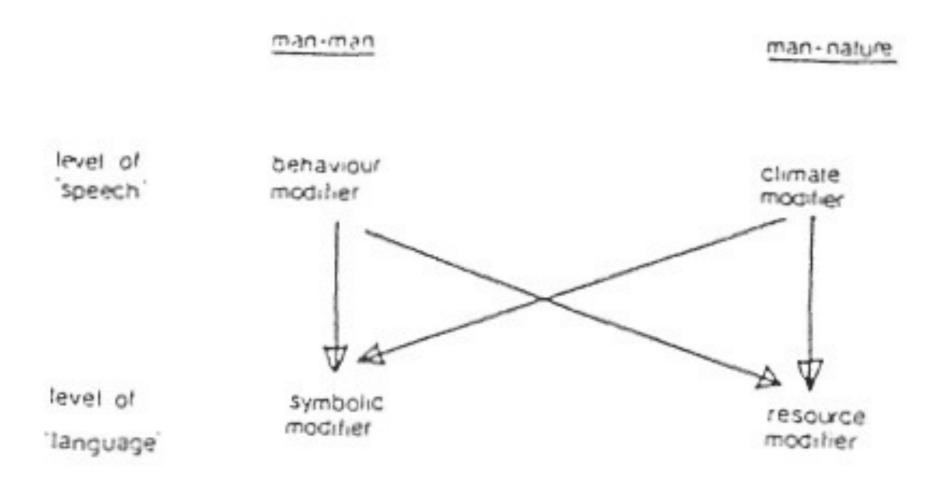
Trellick Tower, London, 1966-1972, Ernő Goldfinger. Grade II* .



Seattle Public Library, Rem Koolhaus

What you see and what you don't





Source: Hillier W. and Leaman A., How is Design Possible? Journal of Architectural Research, vol 3, no 1, 1974, p8

Space, location or what...?

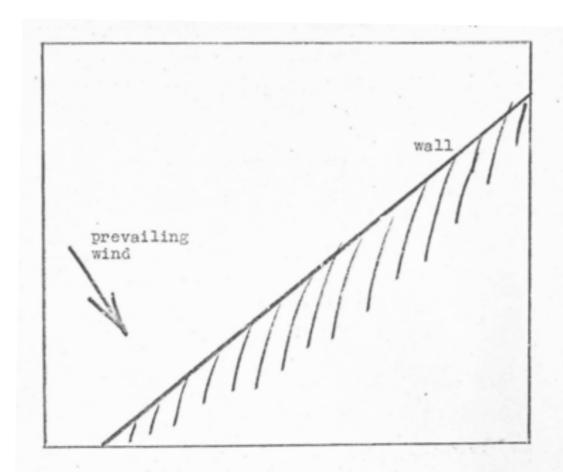


Figure one : Hypothetical landscape with minimal artifacts and simple climate



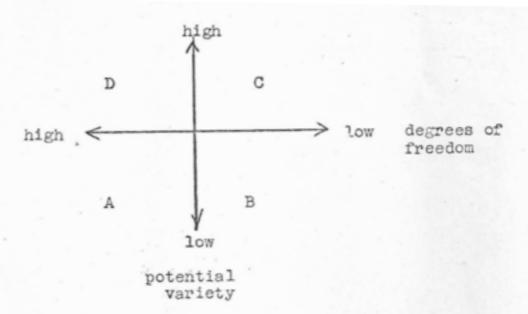
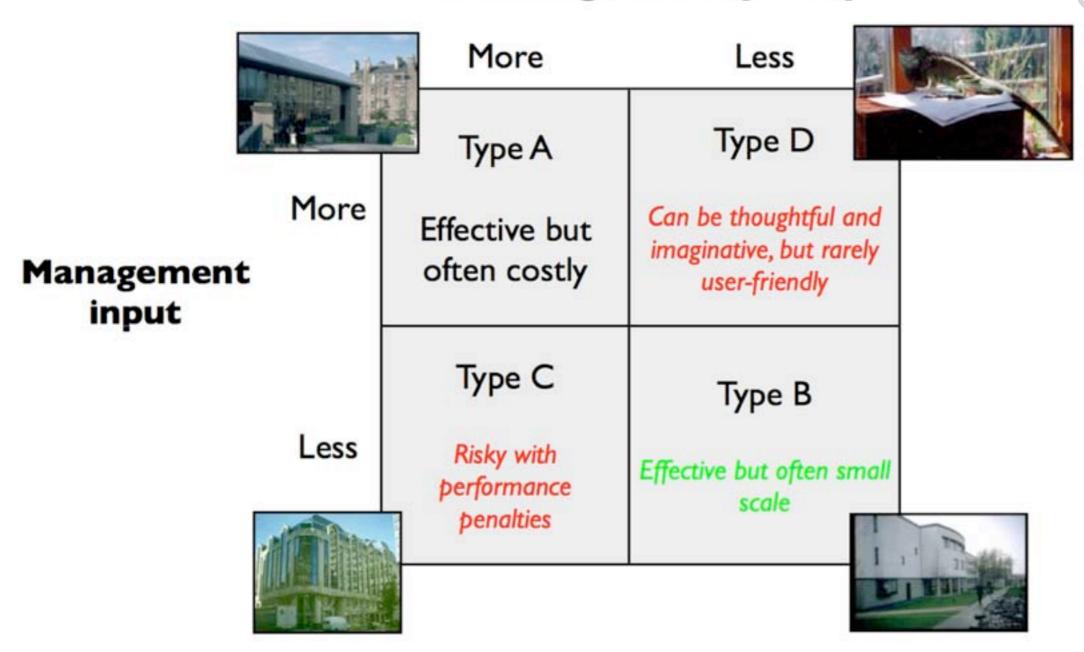


Figure two : Types of space given by degrees of freedom and potential variety

In the real world ...

Technological complexity



... but it depends on who you are and what you are doing ...

Figure 2i Complexity from the designers' point of view

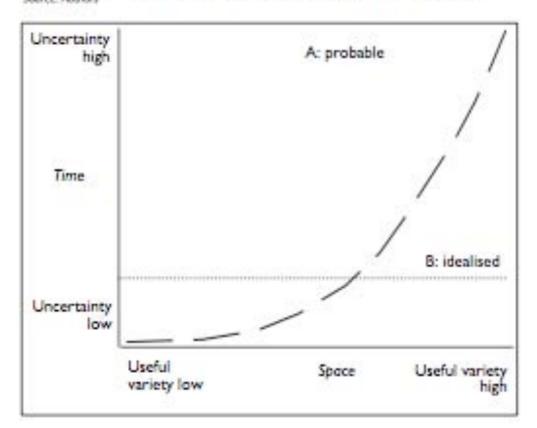
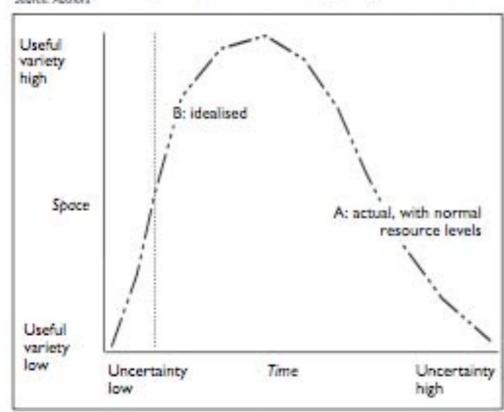


Figure 2ii Complexity from the managers' point of view

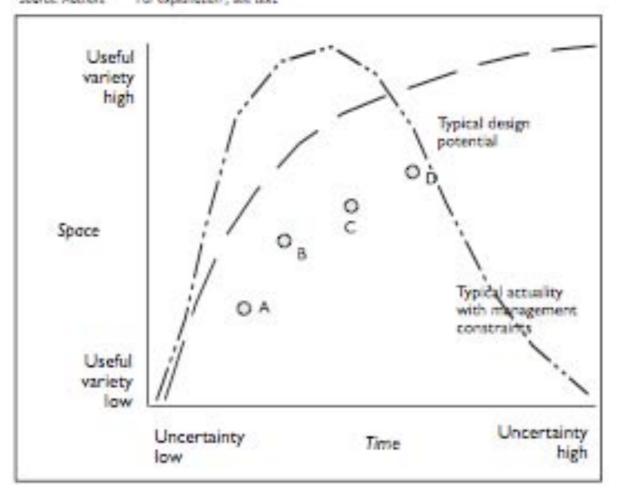


and ask on these bears are noted. For instances, one was



Figure 2iii Designers' J-curve and managers' inverted U-curve superimposed

Source: Authors For explanation , see sext.



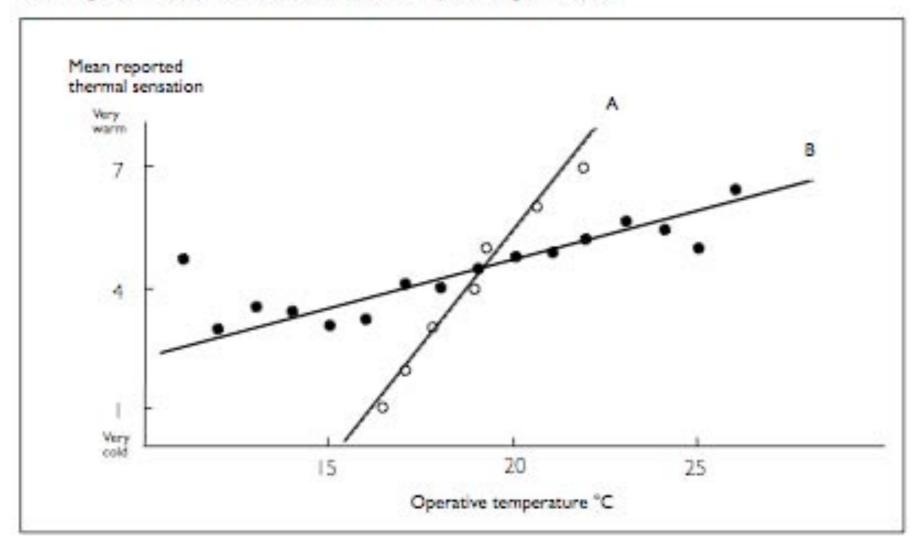
A; Cellular, naturally ventilated. B: Open plan NV; C: Open plan Mixed-mode hybrid; Open plan Air conditioned.

Source; Leaman A., and Bordass W., Comfort and Complexity, Unmanageable Bedfellows, Workplace Comfort Forum, RIBA, London, 22-23 March, 1995

Context is everything ...

Figure 4 The relationship between temperature and thermal comfort under constrained (dashed line) and unconstrained conditions in houses

Source: Nigel OSELAND Reference 10. See also De Dear et al Reference 6 Figure 3.17, p64.





Source; Leaman A., and Bordass W., Comfort and Complexity, Unmanageable Bedfellows, Workplace Comfort Forum, RIBA, London, 22-23 March, 1995

Dangers of received wisdom

You can't tell if you have a good building... unless you find out how it is working

Elizabeth Fry building

has the last laugh

The story of the Elizabeth Fry building (AJ 23.4.98) contains a number of ironies. My favourite is that it didn't even make the shortlist of the Green Building of the Year Award in 1996. DR ROBERT LOWE Leeds Metropolitan University

When natural ventilation was all the rage, a novel form of mechanical ventilation was quietly slipping into Britain: the Swedish Termodeck system. One of the first buildings to use Termodeck and other Swedish detailing was an academic facility at the University of East Anglia. How has it fared?





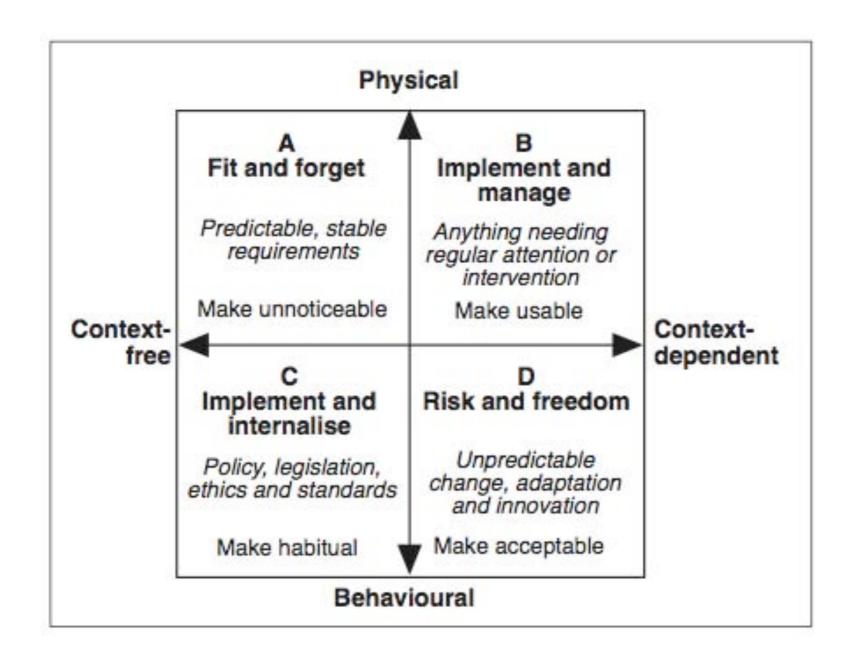
14: Elizabeth Fry Building

LETTER TO ARCHITECTS' JOURNAL

The good performers don't necessarily impress the judges

Think through the strategy ...

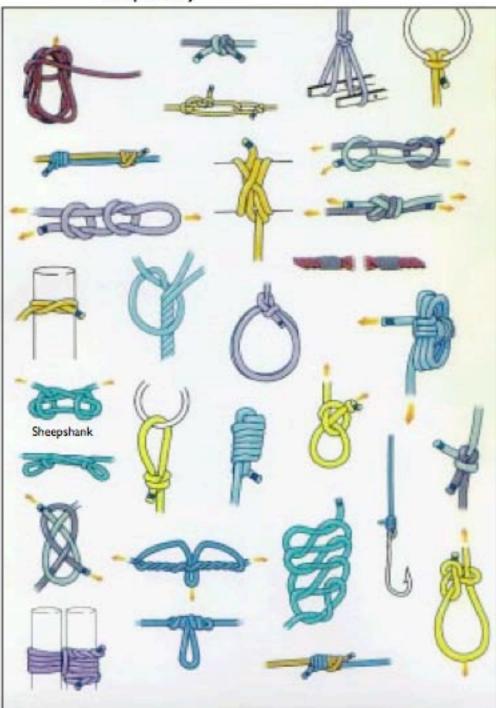




Source; Leaman A., Bordass W., and Cassels S., Flexibility and Adaptability in Buildings: the "killer" variables, Unfinished draft, 1998

Be wary of good intentions ...

Figure I Types of knot - literal examples of flexibility and adaptability

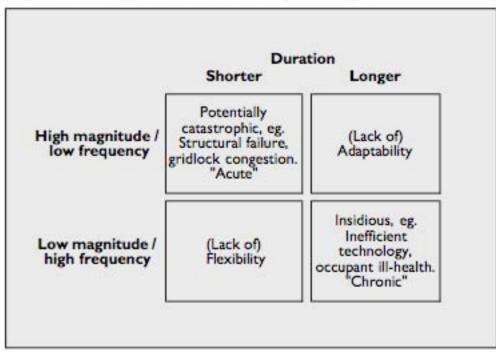


Source: Reference I Rope is obviously flexible and useful within governing parameters such as length and tensile strength. Its adaptability comes through how knots are applied and utilised.

Some knots, such as the sheepshank, are non-intuitive. The sheepshank allows a weak point in a rope to be bridged, but only works properly when under tension. So when climbing down a cliff on a rope it is possible to tie a sheepshank in the top end, cut through the rope (at a point between the "ears" of the sheep) while you are still attached to the rope, climb down, shake the rope free when you have reached the bottom, and retain the majority of the rope!! (p 64 "Sheepshank secrets").

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Figure 2 Types of event affecting buildings

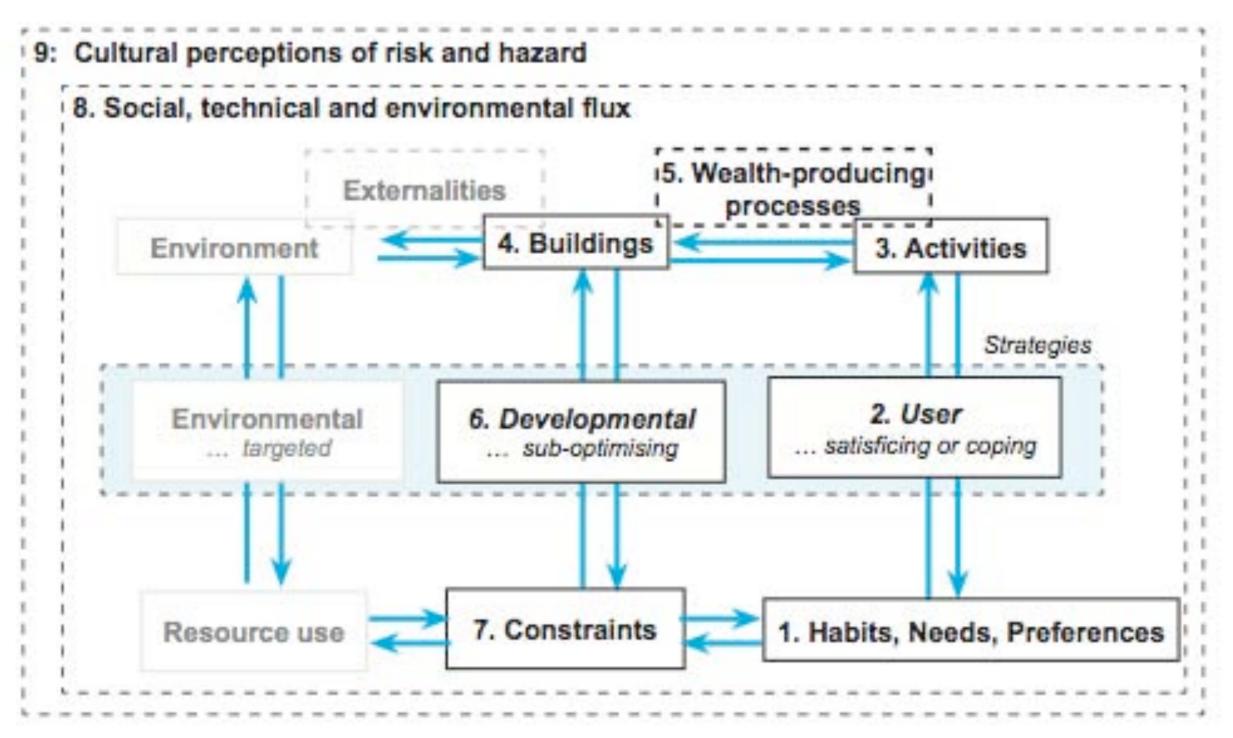


Source: Authors

Leaman A., Bordass W., and Cassels S., Flexibility and Adaptability in Buildings: the "killer" variables, Unfinished draft, 1998

A wider world view ...





... and make it all open source ...



... for feedback and strategy

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The Usable Buildings Trust (UBT) is an independent charity, registered in the United Kingdom. UBT promotes better buildings through the more effective use of feedback on how they actually work. It spreads the results through its website, user groups, collaborative working and input to postgraduate courses. UBT is also a home for approaches which are not quite ready for widespread application and an incubator for their development. Aims Background

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