

Some tools that might be useful when creating 'hybrid world applications'.

This is experience pulled from our work with tangible interactions, touch and physcomp work at the Oslo School of Architecture & Design.

Context.

Scenarios.

Rapid, low-fi and junk prototyping



Choosing a context.

As small as possible to begin, work upwards and outwards.

Here there is observation, interpretation. Ethnographic method.

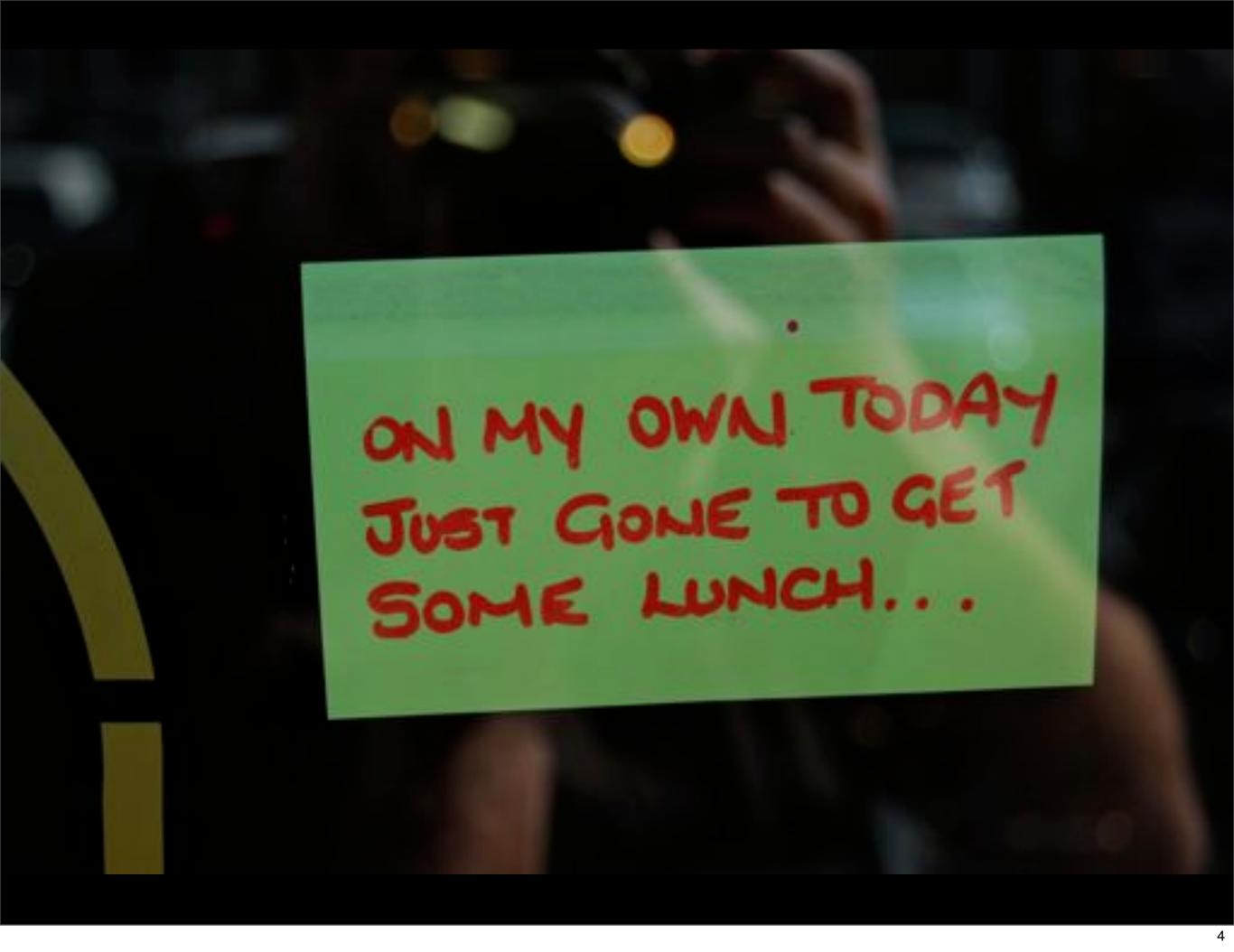
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People

Don't design for yourself.

3



In situations

Situations and context are hard to design for. The more you observe and interpret real situations the better.

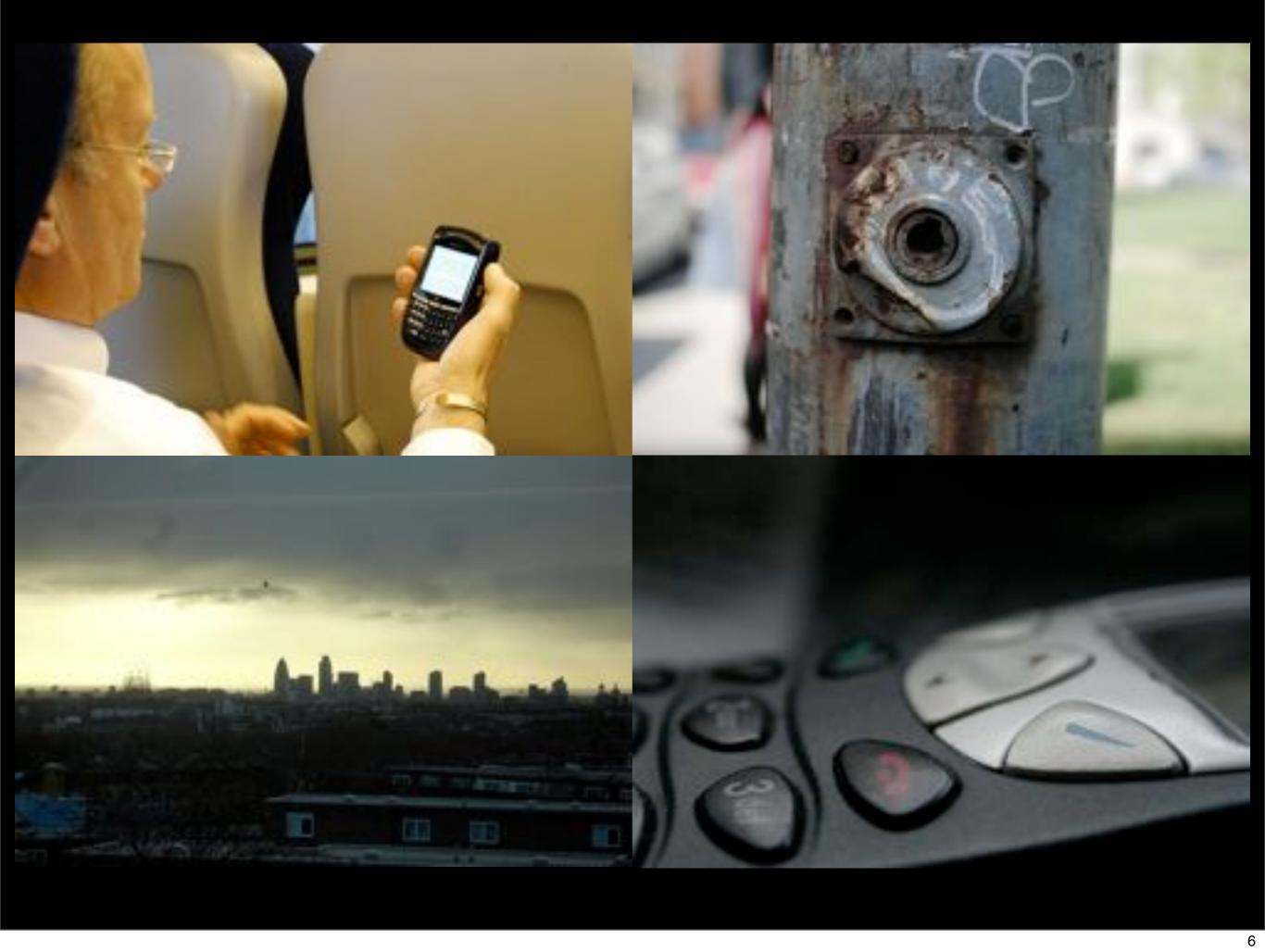
Technologies will be adopted in different ways to you design.



And behaviours

Observe people's detailed behaviour.

5



Scale: important for both scenarios and context.

Choosing and switching between scales, altering scales.

Design as exploration: too many people see it as a linear process. It should be multi-linear, stranded, exploring the extremes.

Scale also frees you from the constraints of critical mass, infrastructure or network effects. Small networks can work in smaller spaces.

See examples of situated software: http://www.shirky.com/writings/situated_software.html

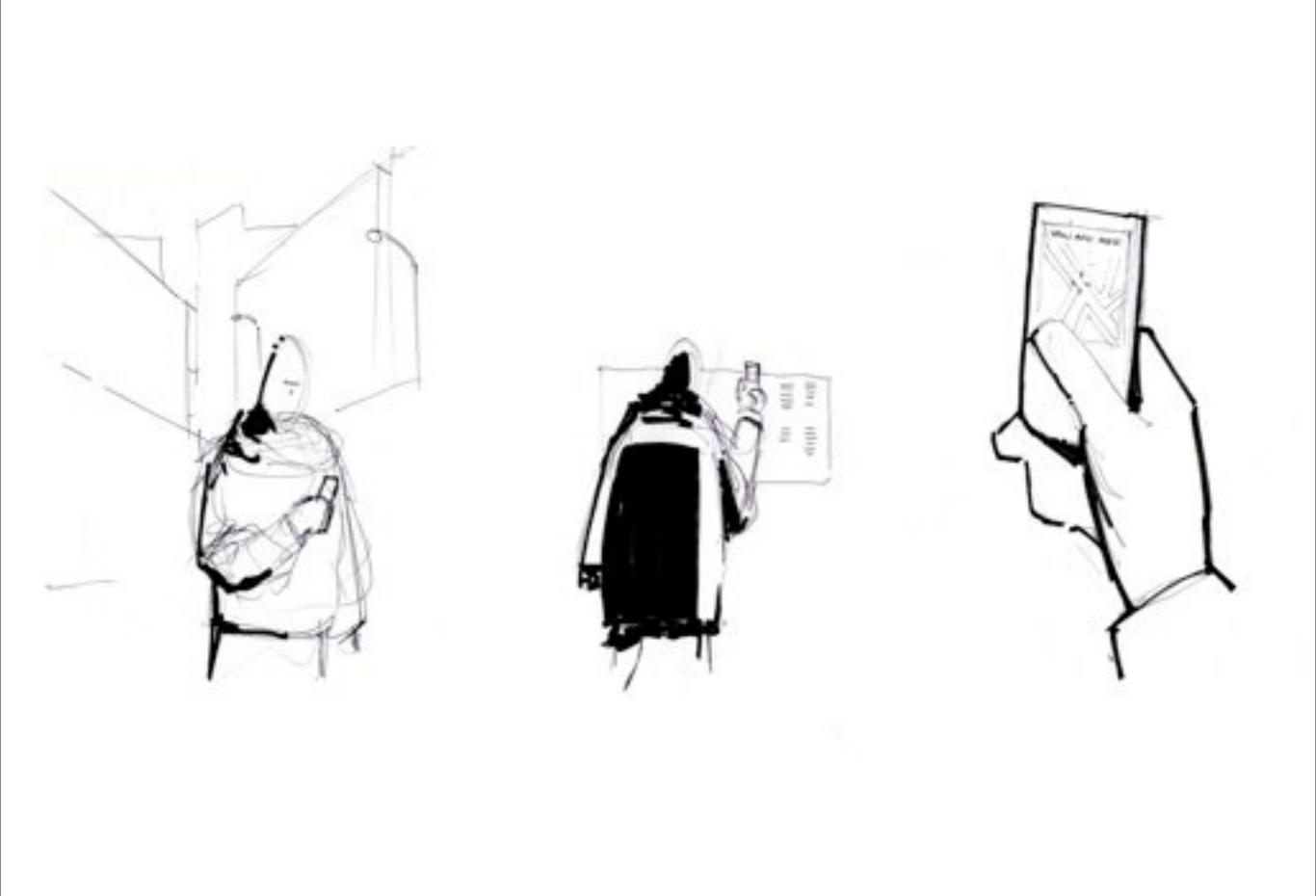


Scale also relates to people: is it for 1 or 100 people?

This really changes the nature of systems.

This is important for both context and Scenarios or Storyboarding.

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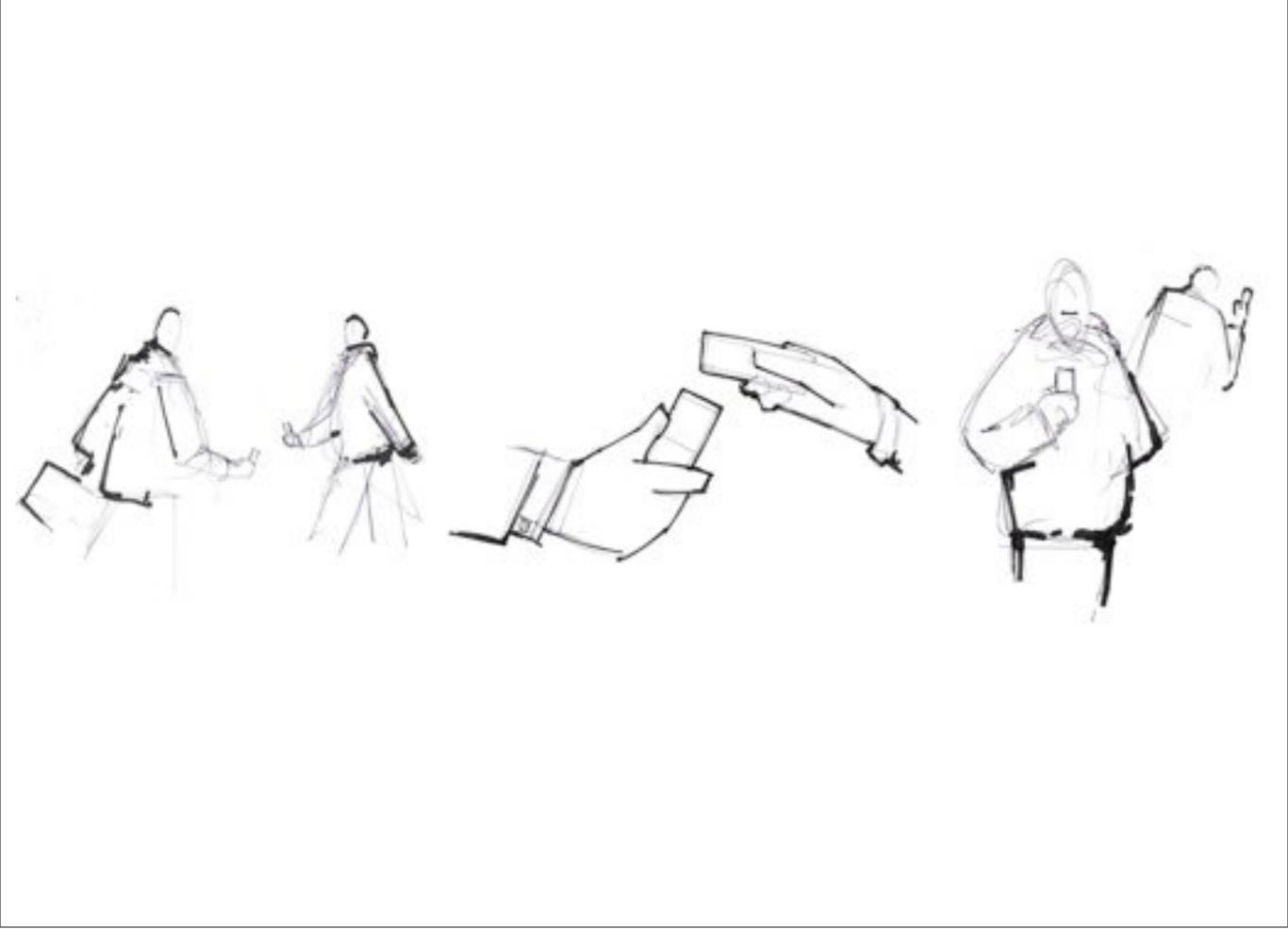


Sometimes a series of three sketches work really well.

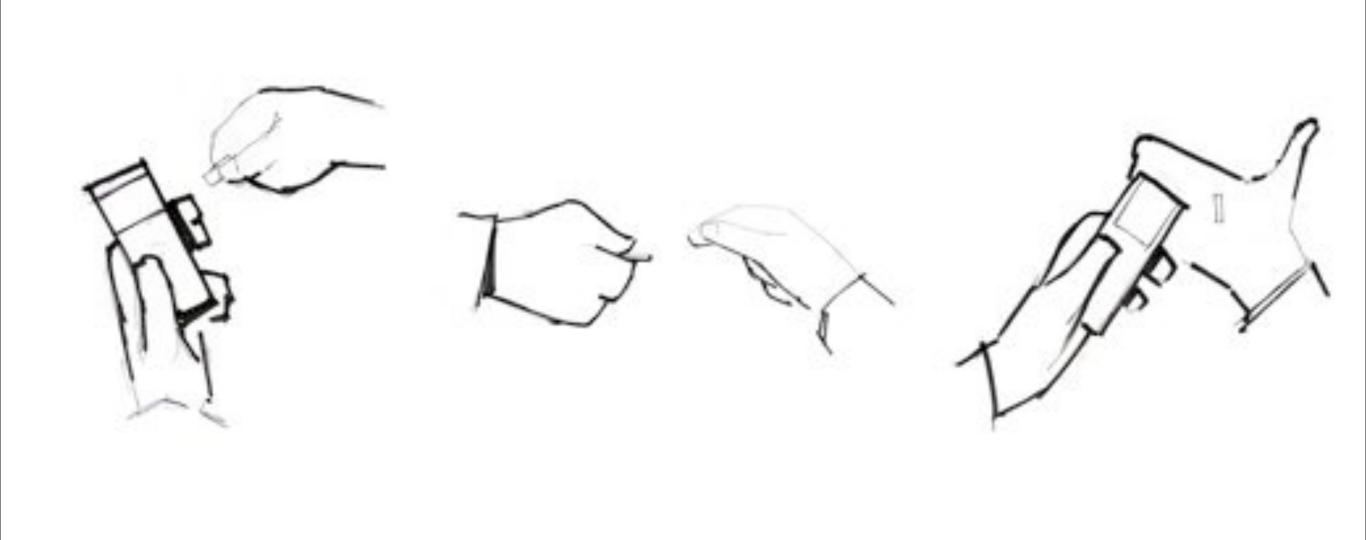
Some situation is set up, an action happens and a result is achieved.

In the Touch project we use very simple scenario sketches to look at concepts.

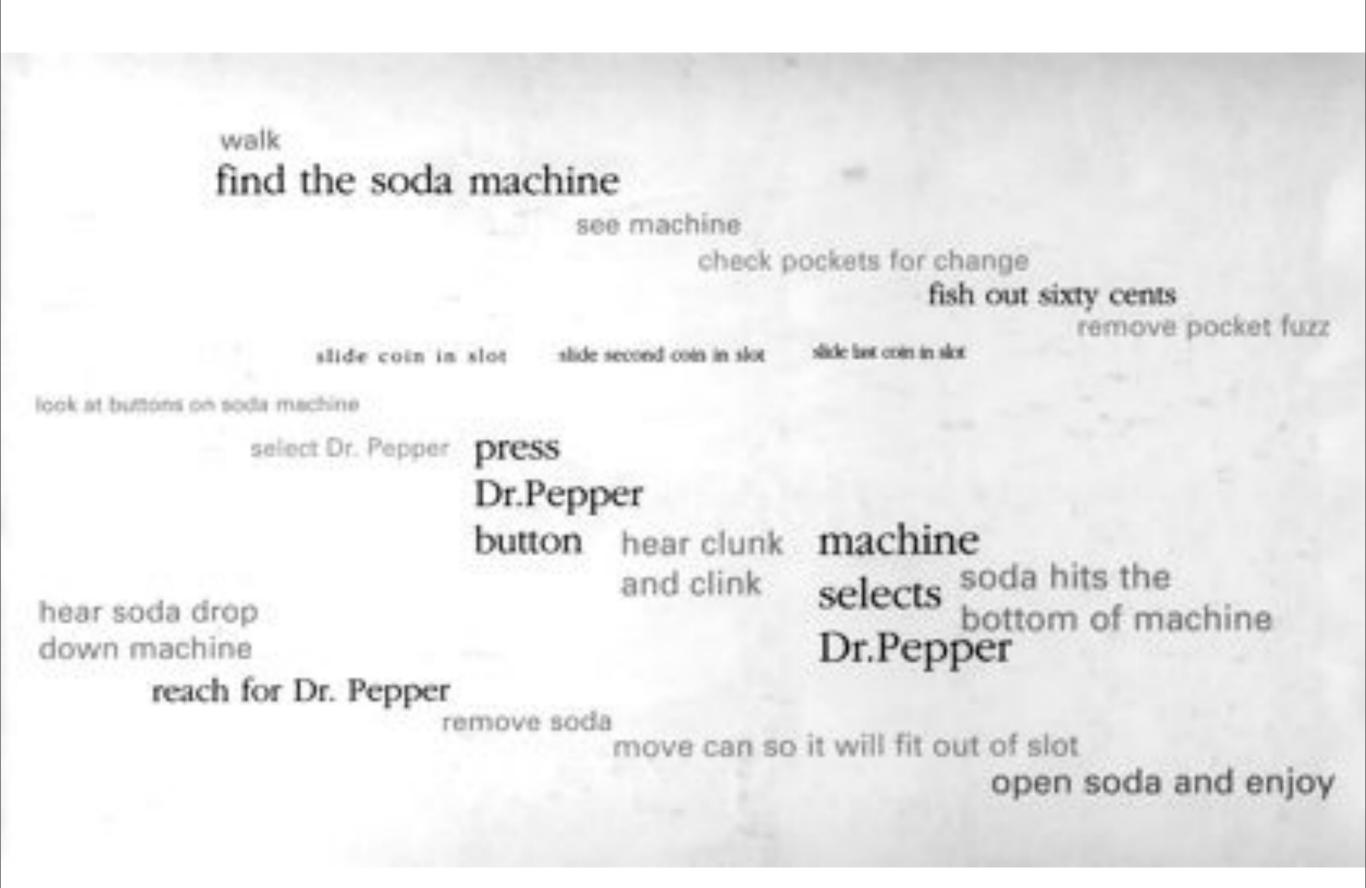
Drawings by Lars Haaland.



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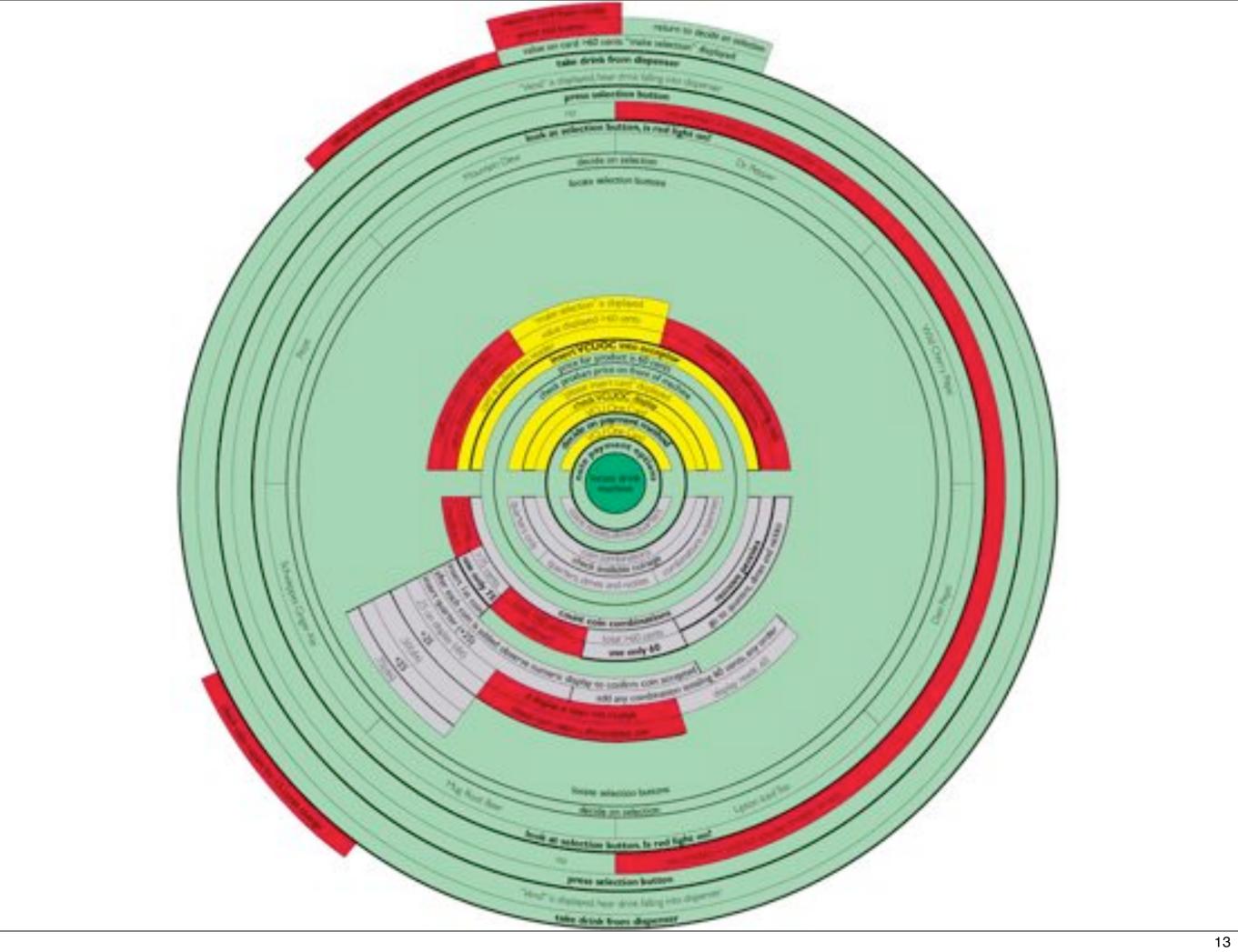


Uncovers failure, problems

Interaction design of a soda machine, from Illinois Institute of Design: http://loop1.aiga.org/



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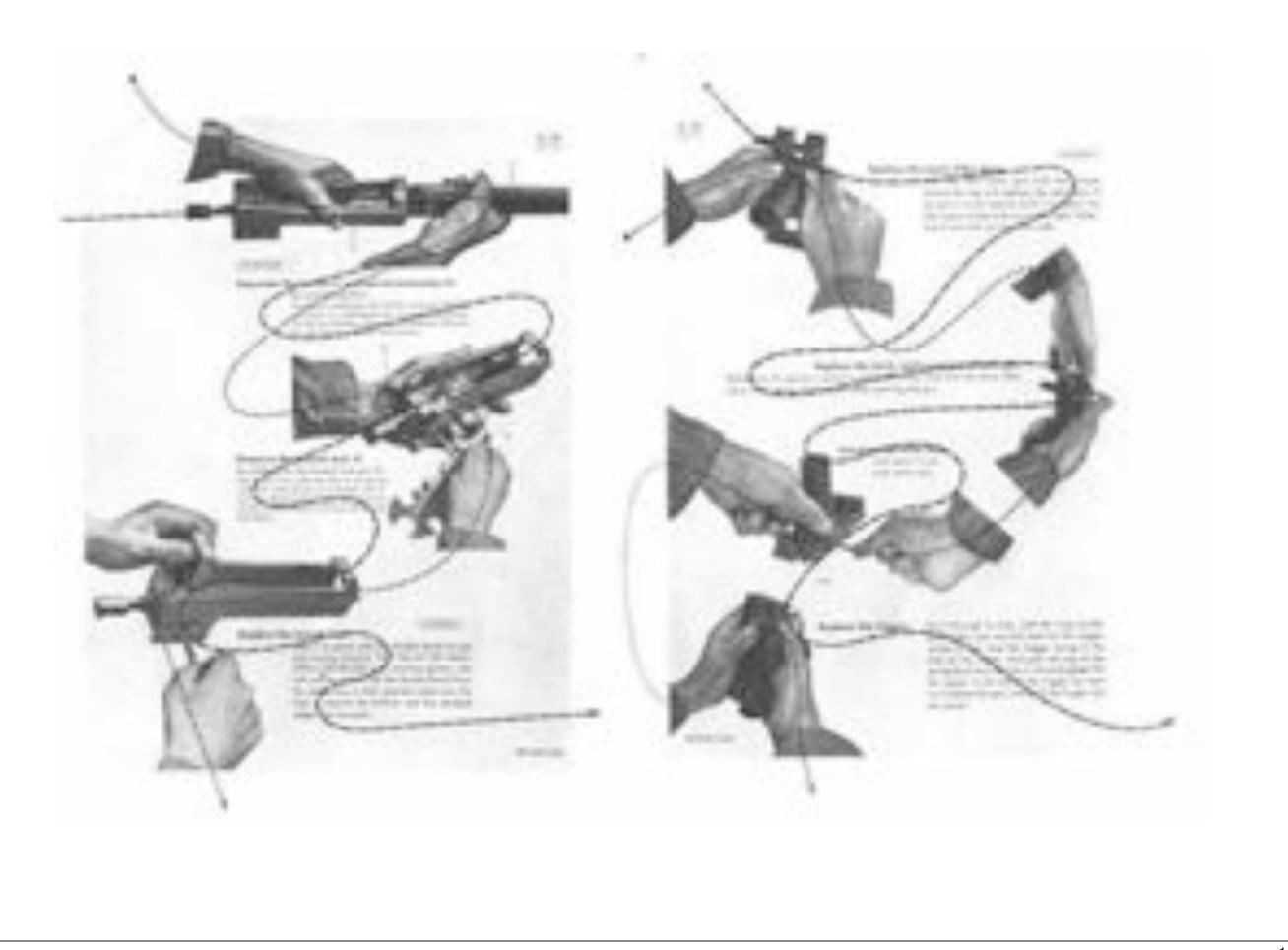
Interaction design of a soda machine, from Illinois Institute of Design: http://loop1.aiga.org/



A spread from Desolation Jones by Warren Ellis and J.H. Willliams III.

Thanks to Schulze & Webb for the link: http://schulzeandwebb.com/blog/2006/11/29/burtin-vs-elliswilliams/

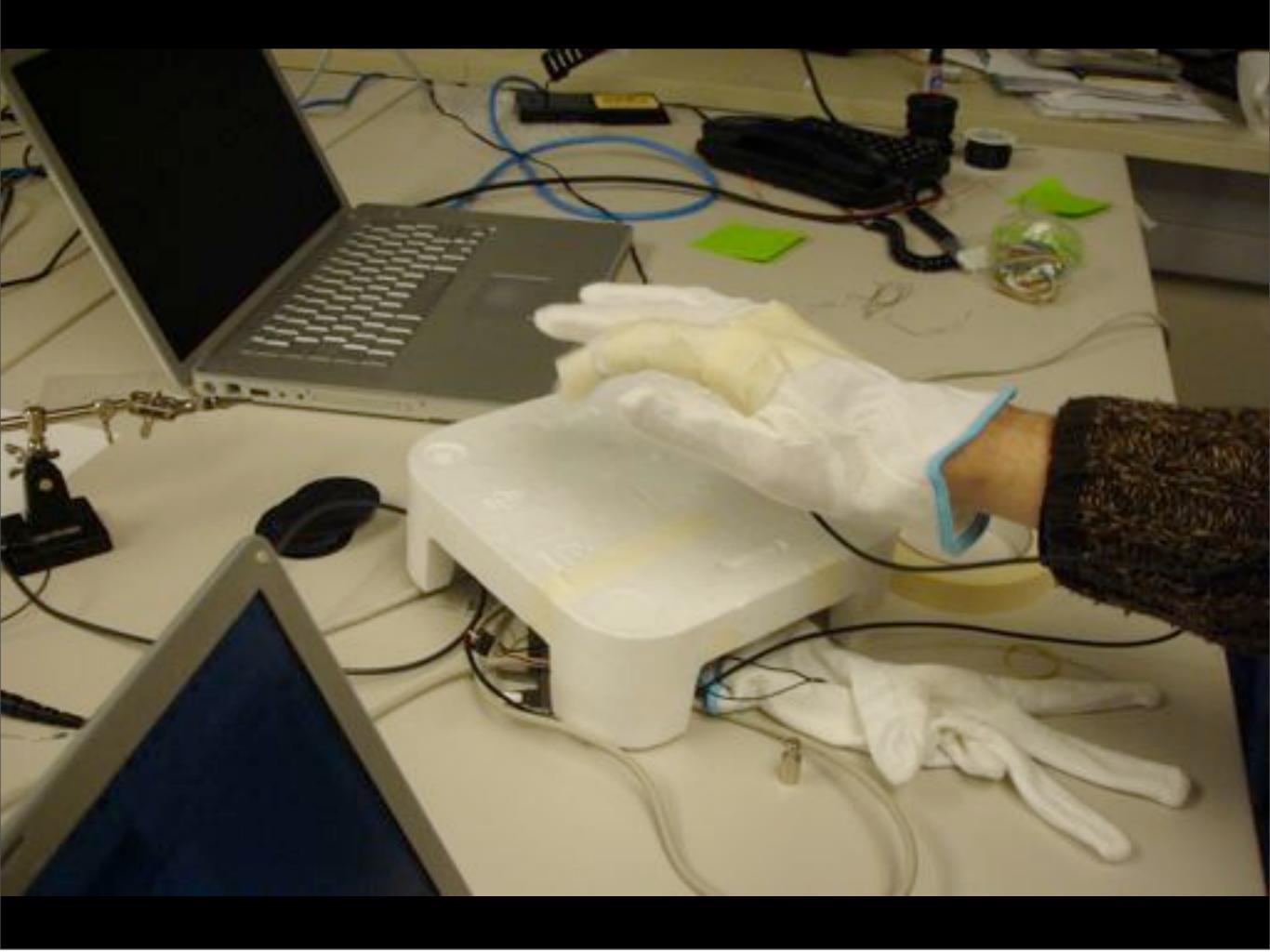
Scenarios to show the non-obvious



Will Burtin

Designing for the U.S. Army. A manual illustrating how to disassemble a rifle.

http://schulzeandwebb.com/blog/2006/11/29/burtin-vs-elliswilliams/

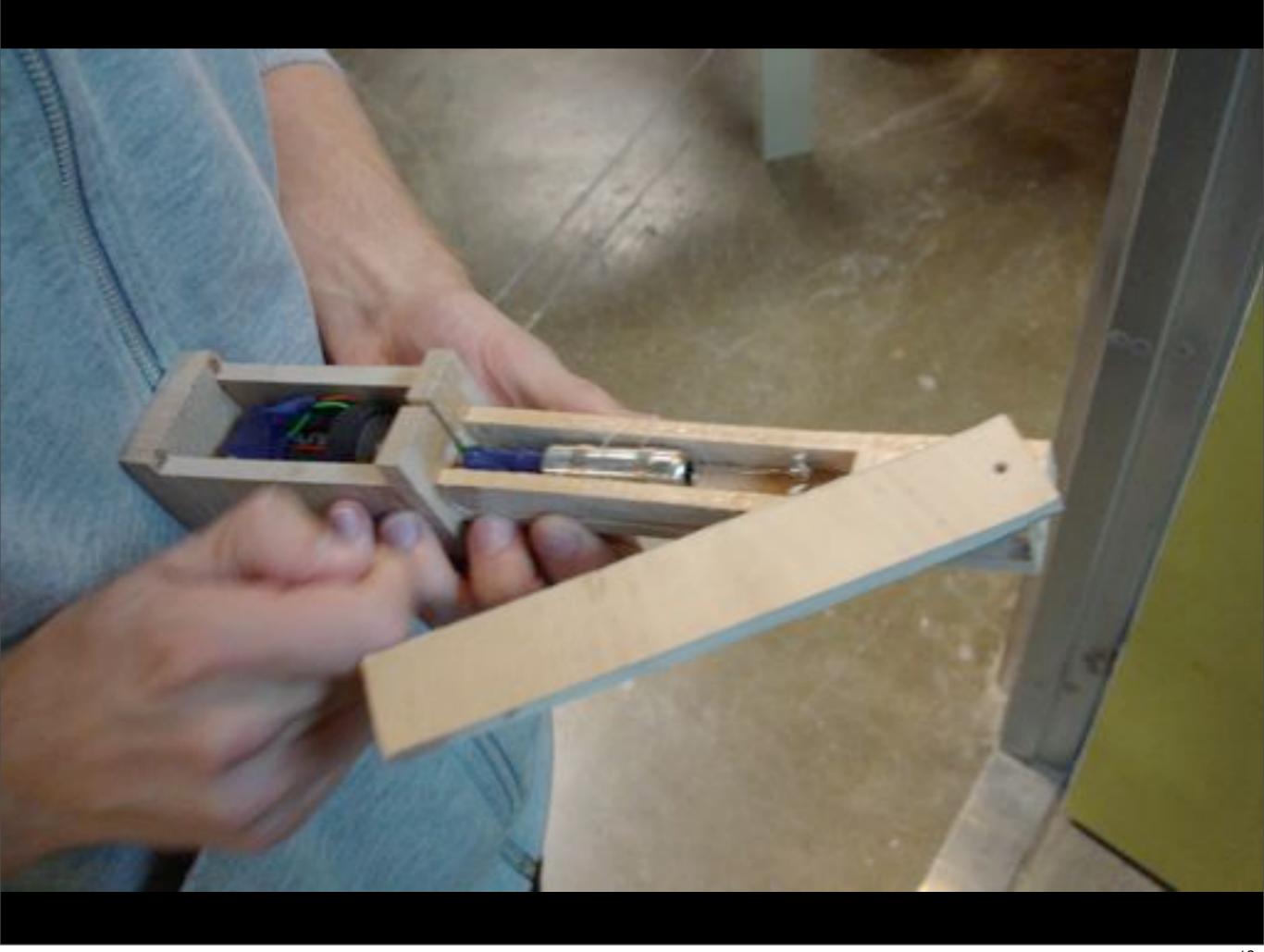


Prototype early.

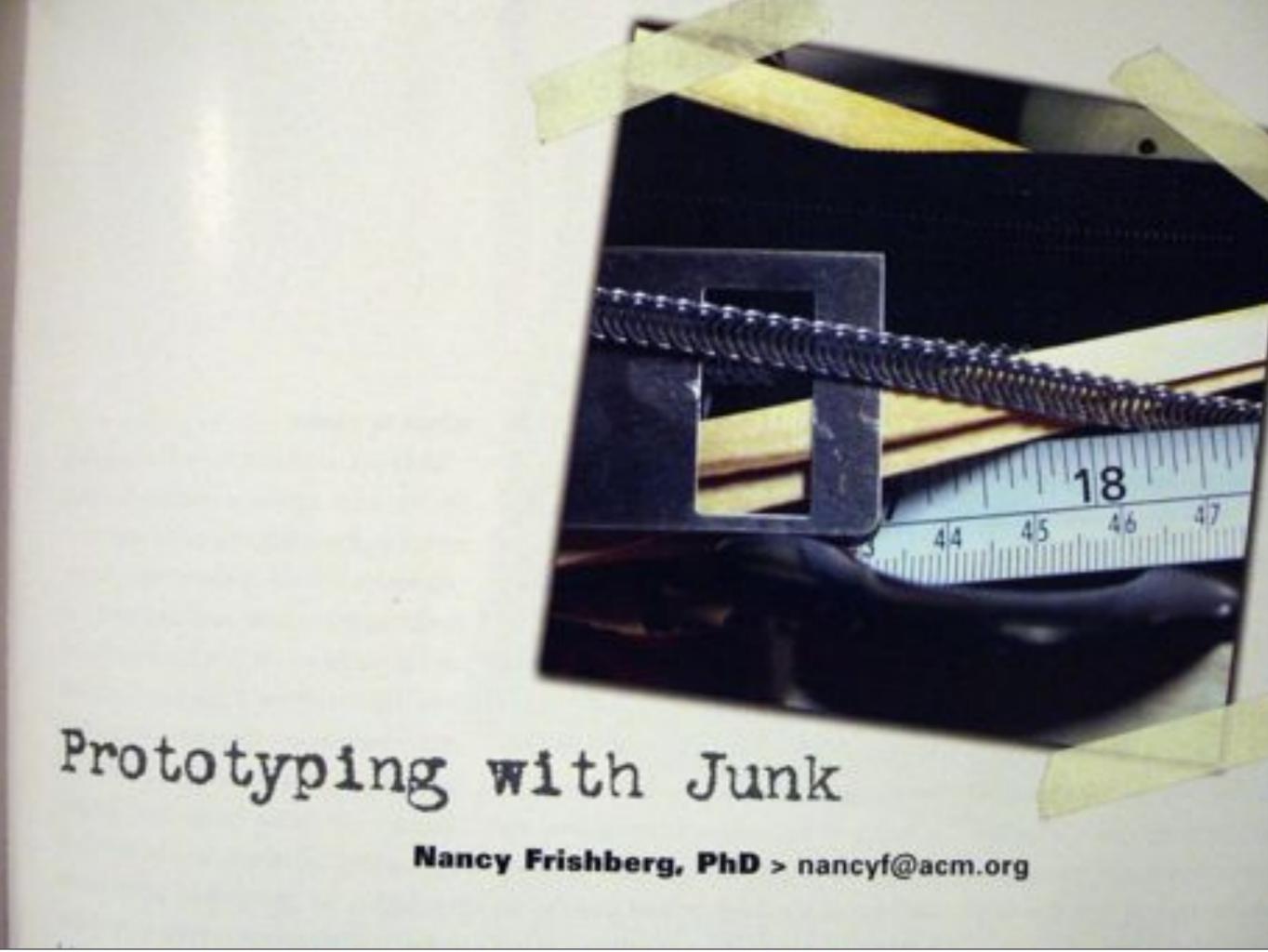
Thinking too much can be more damaging than building too much.



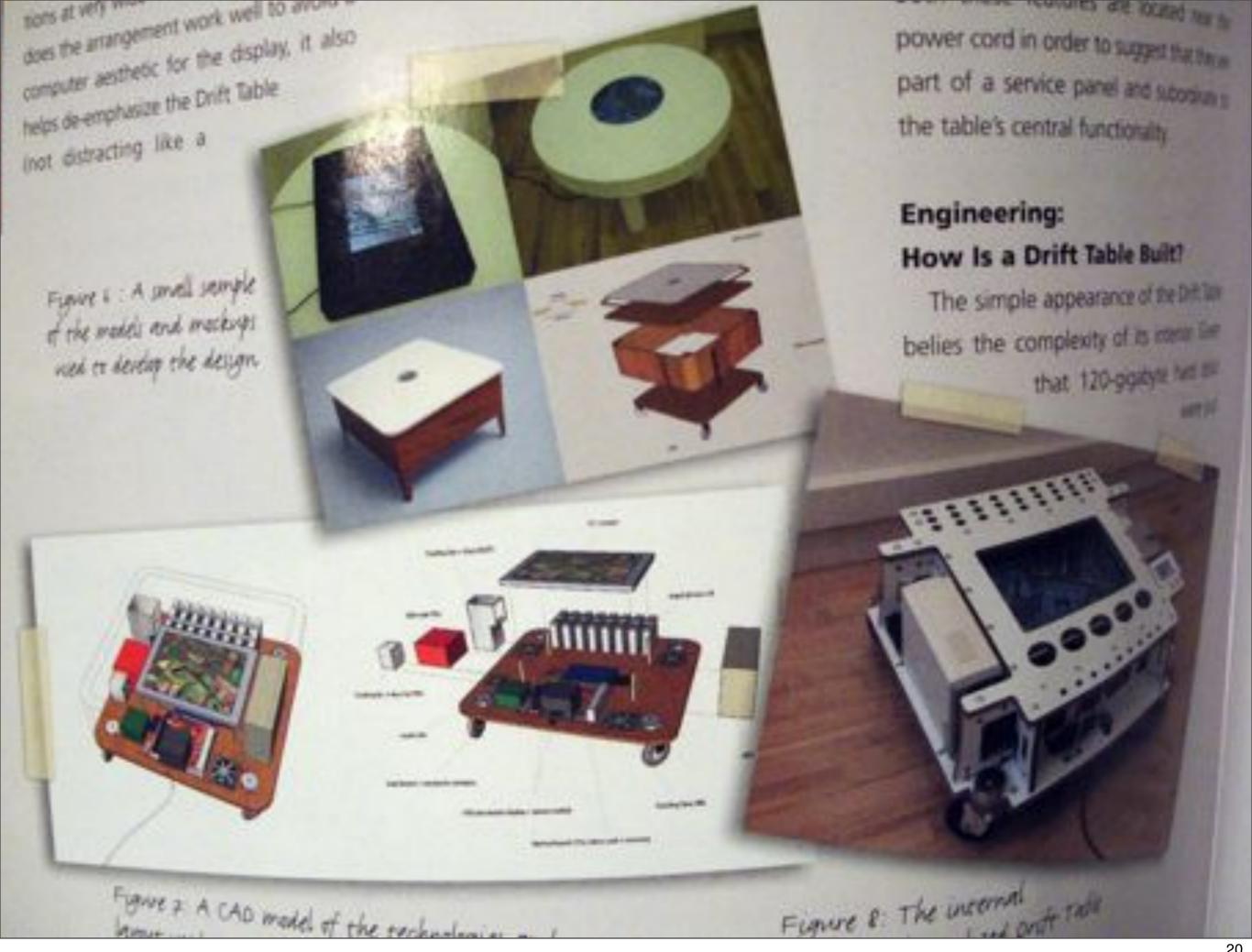
Making things frees you from the constraints of concepts.



Low-fi and middle-fi prototypes.



Junk prototyping, an article from Interactions ACM magazine.



Taking inspiration from already existing objects. A way of introducing lots of cultural and social elements into your design.

"no ideas but in things": http://www.noideasbutinthings.com/ixd/



Everyday objects as interfaces.

From "Experience Prototyping" by Marion Buchenau, Jane Fulton Suri



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Figure 6: Digital camera interaction architecture prototype. The prototype used a desk-top computer's processing power to manipulate the dynamic qualities of the control system and screen behavior.



Figure 5: Picture-communicating prototype. Despite heavy backpacks containing batteries and drivers for the prototypes, the children were happy to integrate picture-sending and receiving into their daily activity.



Figure 4: Bodystorming layouts for an airplane interior. Ideas were generated and evaluated rapidly by the team as they directly experienced physical and social issues in this full-scale environment.



Reflection and letting go.

We need more 'lightness' in interaction design. Less attachment to ideas and ability to change and throw away.