Design with Intent Architectural Lens

The Architectural Lens draws on techniques used to influence user behaviour in architecture, urban planning, traffic management and crime prevention through environmental design (see also the Security Lens).

While most techniques have been developed in the built environment, many can also be applied in interaction and product design, even in software or services; they are effectively about using the structure of systems to influence behaviour, while some of the patterns, such as Simplicity, Feature deletion and Hiding things are really fundamental to design itself.



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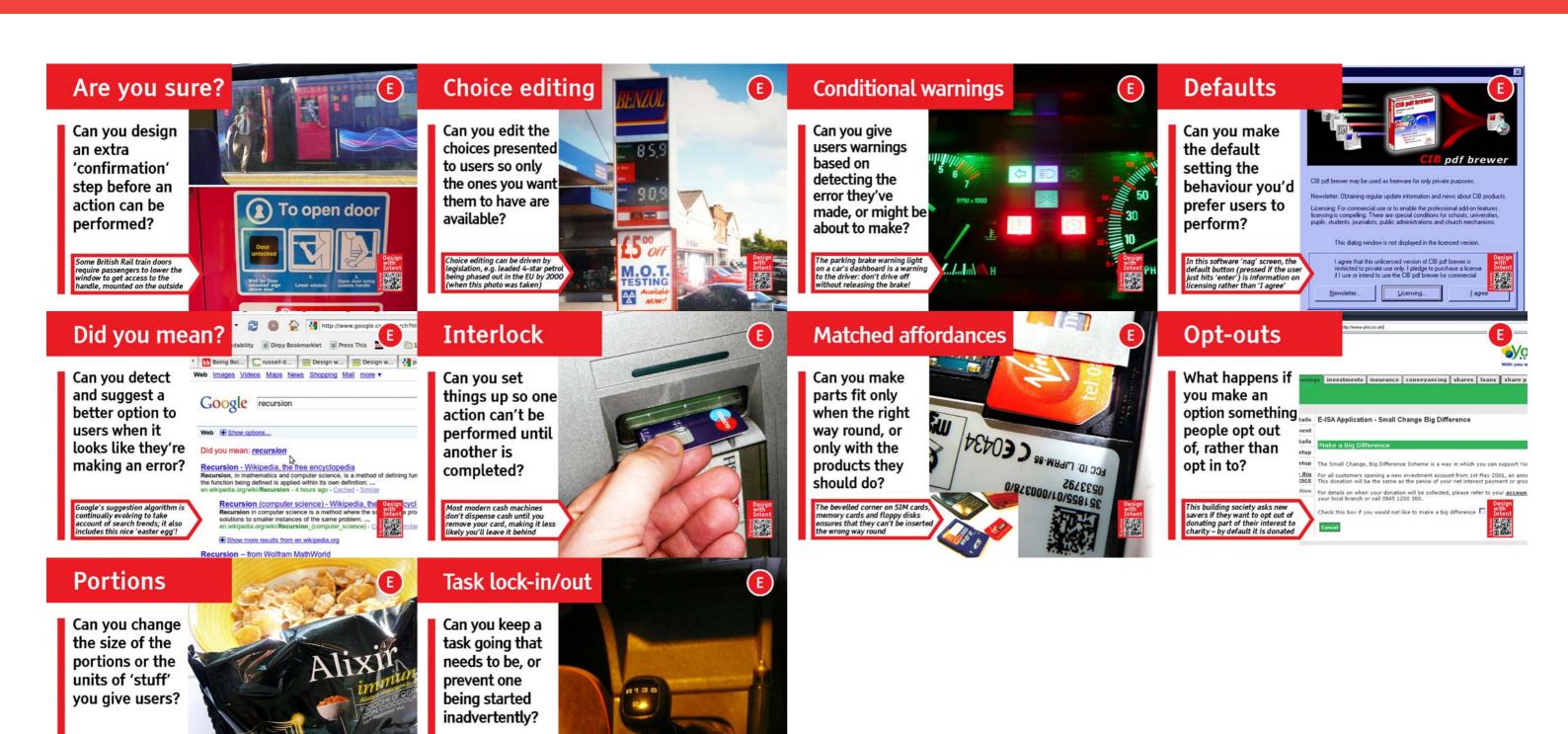
Design with Intent Errorproofing Lens

To prevent accidentally engaging reverse gear, most gearboxes include a 'gate' over/under which the stick must be lifted or pressed

'Portion packs' for snacks give

The Errorproofing Lens treats deviations from the 'target behaviour' as 'errors' which design can help avoid, either by making it easier for users to work without making errors, or by making errors impossible in the first place. It's often found in ergonomics, health & safety-related design, medical device design and manufacturing engineering (as poka-yoke): where, as far as possible, one really doesn't want errors to occur at all.

A key difference between errorproofing and some other views of influencing behaviour is that errorproofing doesn't care whether or not the user's attitude changes, as long as the target behaviour is met. Attitude change might be an effect of the errorproofing, but it is not required.



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Design with Intent Interaction Lens

The Pam personal activity monitor

All the patterns are really about interaction design in one form or another, but the Interaction Lens brings together some of the most common design elements of interfaces where users' interactions with the system affect how their behaviour is influenced. So there are some core Human-Computer Interaction patterns here, such as kinds of feedback, progress bars, and previews, and some currently less-used such as feedforward.

This lens also includes patterns from the growing field of Persuasive Technology, where computers and phones influence behaviour through contextual information and guidance. Among these are kairos, tailoring and tunnelling, identified in BJ Fogg's seminal book Persuasive Technology: Using Computers to Change What We Think and Do.



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users to 'choose' to install additions (and irrelevant) software by presentin them as default parts of the process

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Design with Intent Ludic Lens

Games are great at engaging people for long periods of time, getting them involved, and influencing people's behaviour through their very design. Yet this potential has (so far) been underexplored in application to other kinds of situations outside 'recreation'.

The Ludic Lens includes a number of techniques for influencing user behaviour that can be derived from games and other 'playful' interactions, ranging from basic social psychology mechanisms such as goal-setting via challenges & targets, to operant conditioning via unpredictable reinforcement and rewards, to common game elements such as scores, levels and collections.



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Design with Intent Perceptual Lens

'owns' or has

something?

responsibility for

perceptions and

behaviour?

The Perceptual Lens combines ideas from product semantics, semiotics, ecological psychology and Gestalt psychology addressing how users perceive patterns and meanings as they interact with the systems around them, and puts them into forms which invite the designer to think about how they might influence people's behaviour. Most are predominantly visual, but they need not be: sounds, smells, textures and so on can all be used, individually or in combination.

These techniques may often applied by graphic and interaction designers in the course of a job or project without necessarily considering explicitly the influence thay can have on users' perceptions and behaviour.



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Design with Intent Cognitive Lens

The Cognitive Lens draws on research in behavioural economics and cognitive psychology looking at how people make decisions, and how this is affected by 'heuristics' and 'biases'. If designers understand how users make interaction decisions, that knowledge can be used to influence interaction behaviour. Equally, where users often make poor decisions, design can help counter this, although this may lead to a 'we know what's best for you' attitude.

Dozens of cognitive biases and heuristics have been identified which could potentially be applied to design. The patterns detailed in these cards are some of the most commonly used; this selection draws particularly heavily on the work of Robert Cialdini, Dan Ariely, Richard Thaler and Cass Sunstein.



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Design with Intent Machiavellian Lens

The Machiavellian Lens comprises design patterns which, while diverse, all embody an 'end justifies the means' approach of the kind associated with Niccolò Machiavelli. These will often be considered unethical, but nevertheless are commonly used to control and influence consumers through pricing structures, planned obsolescence, lock-ins and so on, and are central to work by authors such as Vance Packard and Douglas Rushkoff, revealing the 'hidden' structures which shape our everyday behaviour. In technology contexts, Benjamin Mako Hill and Chris Nodder have both done great work exploring this area. Elements of game theory are present in some of the patterns, and this is worth further investigation.



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Design with Intent Security Lens

The Security Lens represents a 'security' worldview, i.e. that undesired user behaviour is something to deter and/or prevent though 'countermeasures' designed into products, systems and environments, both physically and online, with examples such as digital rights management.

From a designer's point of view, this can often be an 'unfriendly' – and in some circumstances unethical – view to take, effectively treating users as 'guilty until proven innocent'. However, taking inspiration from the the patterns, it's possible to think of ways that they could be applied to help users control their own habits or behaviour for their own benefit – encouraging exercise, reducing energy use, and so on.



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