Confidence in Privacy through End User Programming

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Facebook’s Privacy UI

The direct manipulation style results in a UI that is highly \textit{Diffuse} and \textit{Viscous}.

The UI has poor \textit{Role Expressiveness} and support for \textit{Abstraction}, high \textit{Hidden Dependencies} and \textit{Premature Commitment}.

This gives a questionable User Experience.

(Terminology, technique from [2])

Privacy Stories UI

Reconceptualise as programming, an example of [1]

A programming-like UI, with explicit support for \textit{Abstraction}, visualisation to provide feedback and testing tools to enhance confidence.

The pilot study showed higher self-reported confidence, but some residual difficulties with abstraction handling.

The interface does approximately as well as Facebook’s but scales better. The attentional cost is still too high.

A positive indicator: one technically naïve user repurposed the security tool for presentation of self.

More work remains to be done, but first indicators are encouraging
