Smart Objects for Learning

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Innovation workshop Feb 2012

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What is an smart object?

“a computationally augmented tangible object with an established purpose that is aware of its operational situations and capable of providing supplementary services without compromising its original appearance and interaction metaphor”


E.g. The gorilla detector
What can you learn in the kitchen?
French and cooking lessons

Interactive kitchen
University of Newcastle
Eating habits
How to cut meat, bread ...
What can you learn in the bathroom?
Promoting correct toothbrushing practices
Well done! Fish dances
Incubation requires clean aquarium

Persuasive technology.
Thrifty faucet
What can you learn in your room?
Feedback on your behaviour

Reflecting Human Behavior to Motivate Desirable Lifestyle
Tatsuo Nakajima
What can you learn in your daily activities?
Wallet. Altering human behaviour
The more money you spend, the harder to open it
Encouraging Daily Activities with Ambient Feedback

A mirror reflects a user’s lifestyle

Persuading change of a user’s behavior through ambient feedback

Hygiene 

Cleaning

Feedback

Daily Activities

Aquarium, Picture, Foliage plant

Cooking

Sustainability
Smart objects for learning
Do not stand up before you finish your homework or ...
Thanks!