

EVOLVING RFID DEVICES

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dorkbot gent - 23rd of june 2006



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rfid graduation project

evolving rfid devices



RFID

privacy issues

tracking products - tracking people

positivity?



APPLICATION

rfid in existion projects

no supply chain

what added value?

evolving rfid devices



ART RELATED

we-make-money-not-art

rfid in japan

over 100 projects

evolving rfid devices



ADDED VALUE

good / bad

new / old

what role does rfid play?

evolving rfid devices



Binary identification

evolving rfid devices





BINARY IDENTIFICATION

friend or foe?

enemy / friendly airplanes WW II

no unique instances

0/1 binary identification

evolving rfid devices



Binary identification

Unique identification

evolving rfid devices



UNIQUE IDENTIFICATION

basic identification

dealing with who or what?

evolving rfid devices





UNIQUE IDENTIFICATION

smart cards

check privileges and allow access

evolving rfid devices





UNIQUE IDENTIFICATION

condom vending machine - shanghai

10.000 rfid coupons

1-time id needs unique id

evolving rfid devices



Binary identification

Unique identification

Descriptive

evolving rfid devices



DESCRIPTIVE

without is just 'being'

add properties

retrieve object info





DESCRIPTIVE

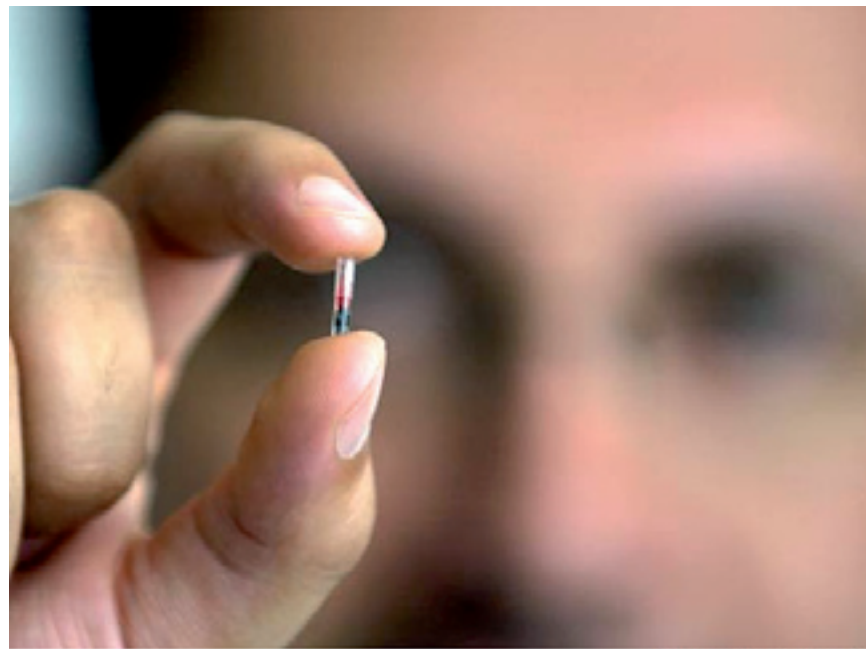
sushi info

type, cooking time, serving time

cook, price etc

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AP / Jose Luis Magana, file

DESCRIPTIVE

human description

age, name, sex

VIP access, creditcard

payments

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Binary identification
Unique identification
Descriptive
History

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HISTORY

collect: what was bought
then charge total

evolving rfid devices





HISTORY

location tracking

one of most used application rfid

public transport cards

kids, elderly

evolving rfid devices





HISTORY

plant as symbol for human relation
controlling light, water supply
meeting people

evolving rfid devices



Binary identification
Unique identification
Descriptive
History
Patterns

evolving rfid devices



PATTERNS

predict that history
monitor behaviour

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PATTERNS

intel's monitoring glove, tagged home
one item - item order

waterboiler - tap - tea bags - sugar jar - spoon drawer
toilet

evolving rfid devices





PATTERNS

home reminder

wallet before doorknob

prevent forgetting items

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Binary identification
Unique identification
Descriptive
History
Patterns
Masses

evolving rfid devices



MASSES

mass instead of individuals

whole groups

majority

evolving rfid devices





MASSES

majority decides

rfid version kinoautomat

evolving rfid devices





MASSES

railway system improvement
patterns passenger movement

evolving rfid devices



Binary identification
Unique identification
Descriptive
History
Patterns
Masses
Medium

evolving rfid devices



MEDIUM

info on tag not describing object
unlink content from object





MEDIUM

moo-pong japan

capture video

associate to balls

physical body for digital content

evolving rfid devices



Binary identification
Unique identification
Descriptive
History
Patterns
Masses
Medium
Symbolic medium

evolving rfid devices



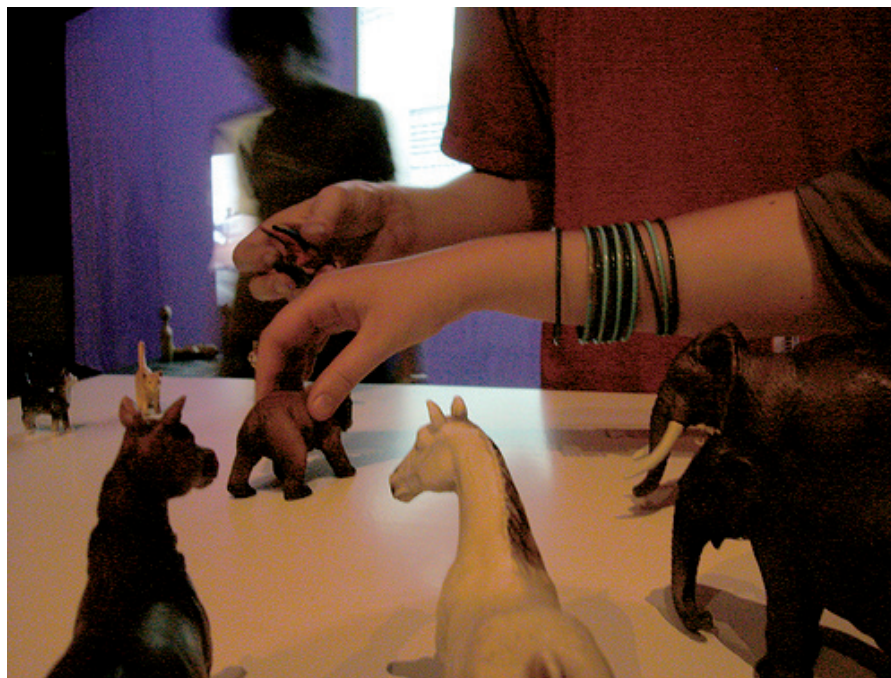
SYMBOLIC MEDIUM

relation content

appearance object

evolving rfid devices





SYMBOLIC MEDIUM

symbolic table

media associated objects

evolving rfid devices





SYMBOLIC MEDIUM

interface to advance
'deal me in' simone pia
placement objects

evolving rfid devices



Binary identification
Unique identification
Descriptive
History
Patterns
Masses
Medium
Symbolic medium
Interface

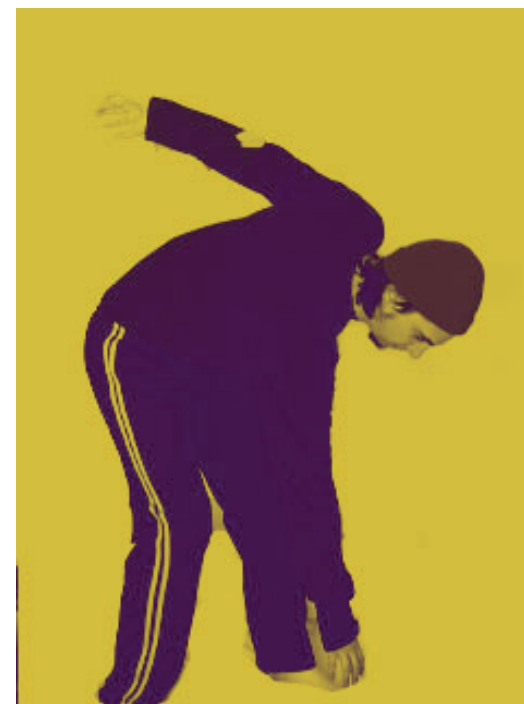
evolving rfid devices



INTERFACE

unlink object and appearance
sensors / actuators
function for object





INTERFACE

vj tool

allow vj to dance floor
gestures replace buttons

evolving rfid devices





INTERFACE

Sony's DataTiles
perspex rfid tiles
what to display where

evolving rfid devices





INTERFACE

‘murder in the living room’
monitors looking for clues
scanning objects
scanning space

evolving rfid devices



Binary identification
Unique identification
Descriptive
History
Patterns
Masses
Medium
Symbolic medium
Interface

Sensors

evolving rfid devices



SENSORS

active tags with sensors

temperature, heartbeat

humidity, light, vibration





SENSORS

julian bleecker's blogjects

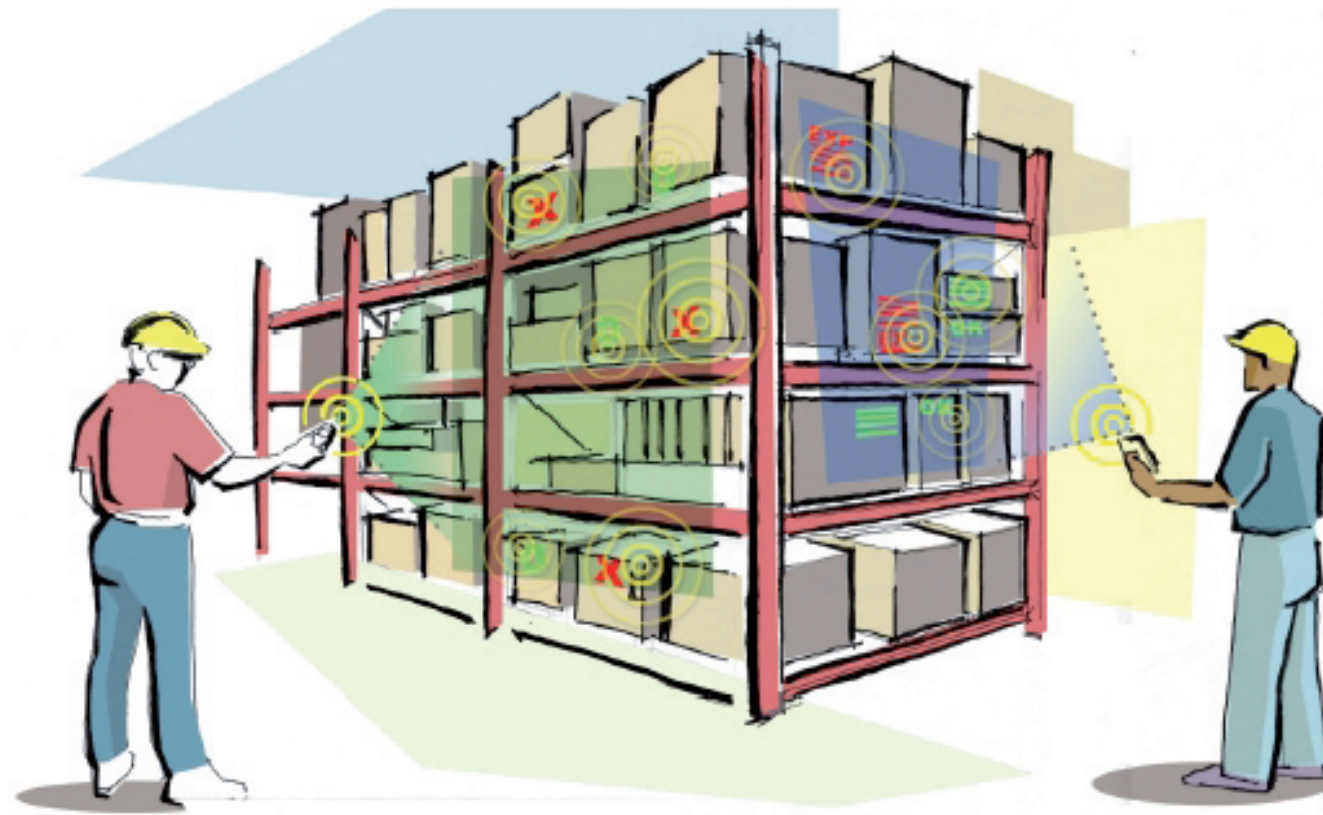
data collection

more habitable worlds

pidgeons, poultry, cars

evolving rfid devices





SENSORS

mitsubishi research (merl)

light sensor

rfig - geometry

evolving rfid devices



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Sensors

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