



2006 4 1



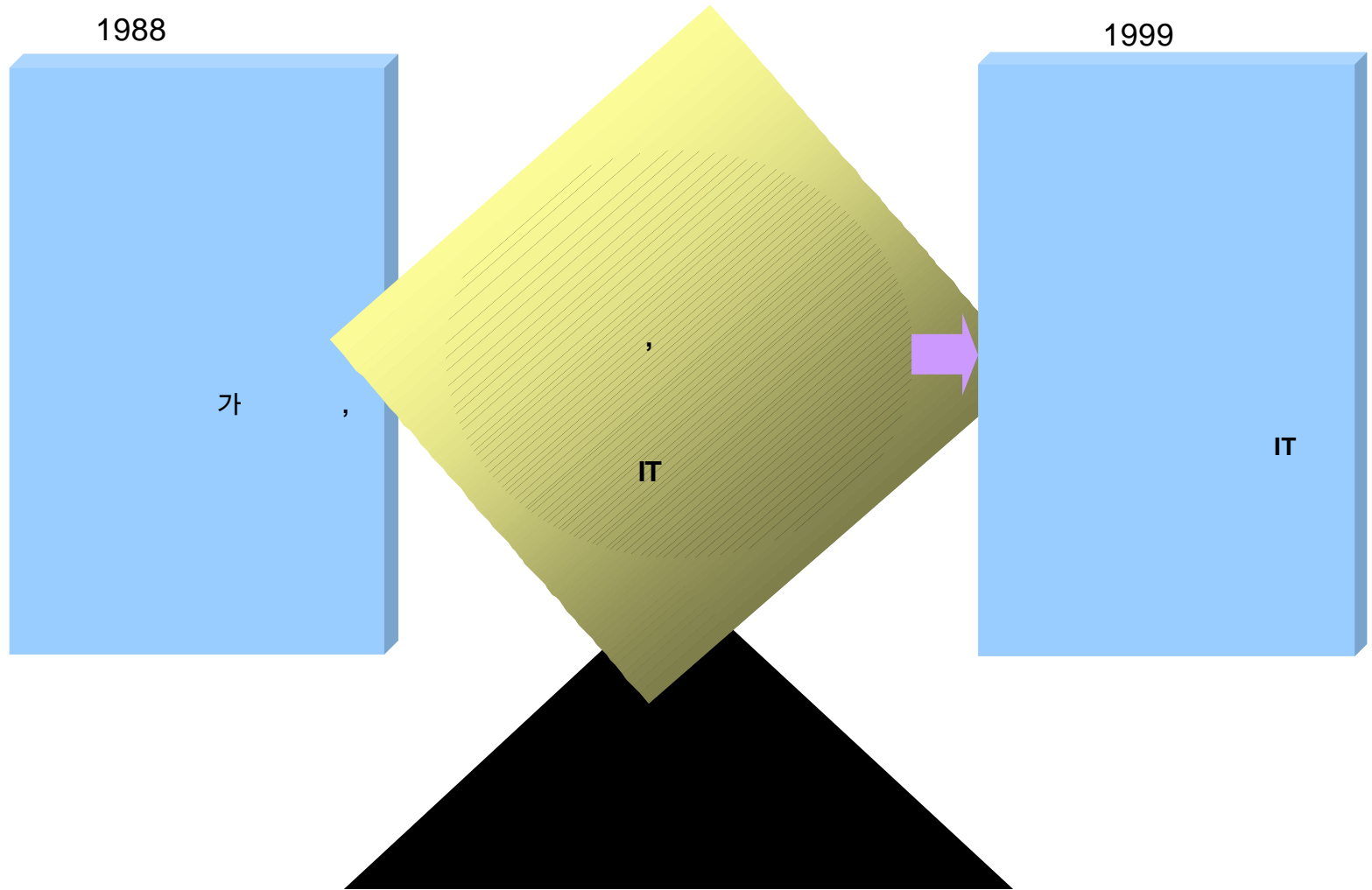
/ LG  
firehj@hanmail.net



SCA (Software Community Alliance)  
<http://www.scakorea.org>

<http://www.ubiu.net>







Mark Weiser

THE DOCUMENT COMPANY  
**XEROX**  
UNITED STATES

**parc**<sup>SM</sup>  
Palo Alto Research Center

< >  
-1952  
-  
(computer science)  
-1987  
-1988  
-1999

ubiquitous [jubɪkwɪts]  
a. 《 》  
1 , (omnipresent)  
2 < >

(<http://www.ubiu.net>)



1984

Everywhere computer

1988

1991

The computer for the 21st Century

1993

Some Computer Science Problems  
in Ubiquitous Computing

1996

The Coming Age of Calm Technology

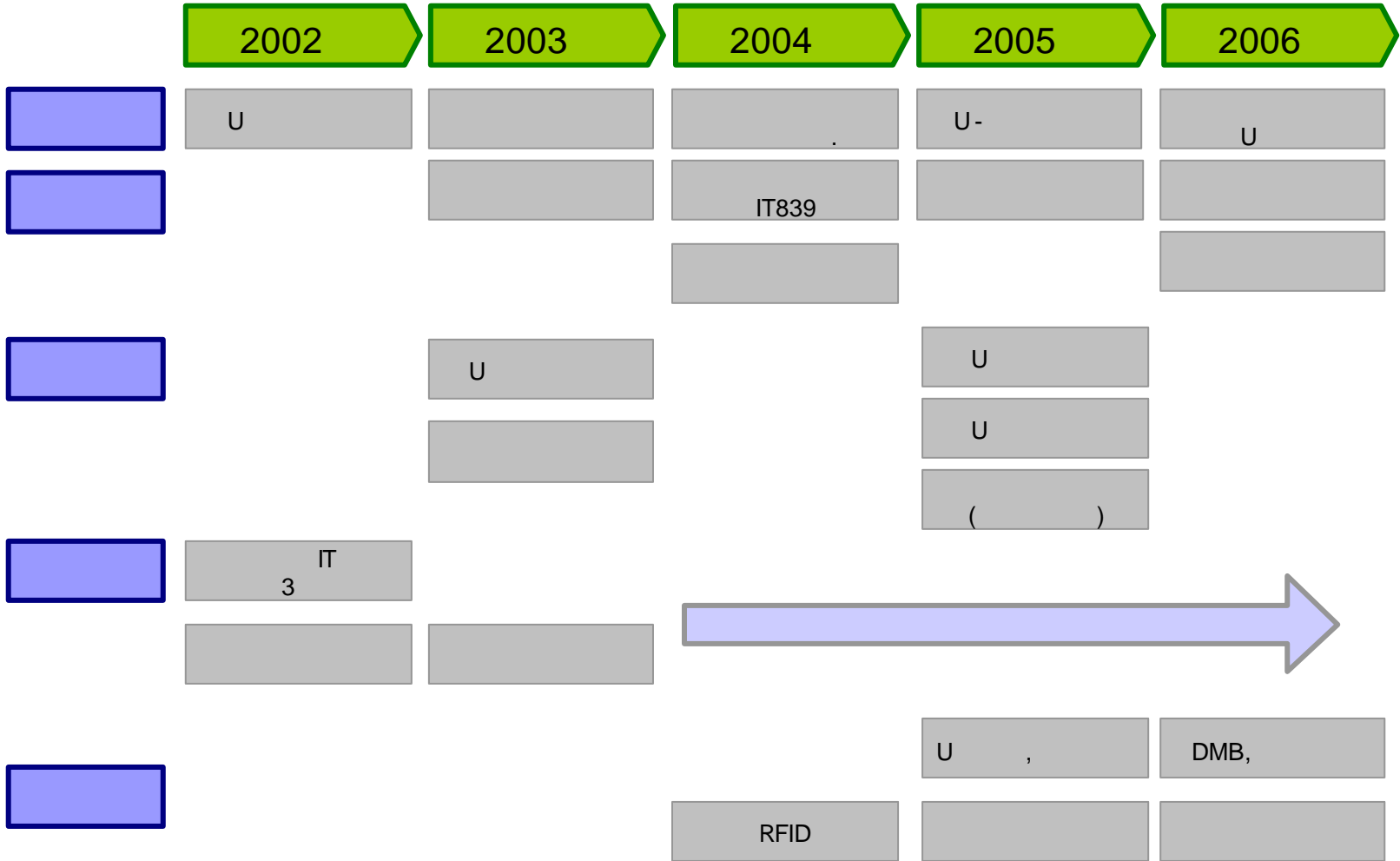
1999

2002

2003~2006



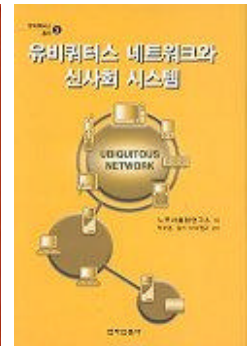
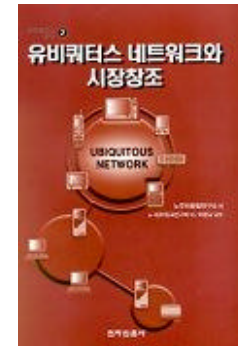
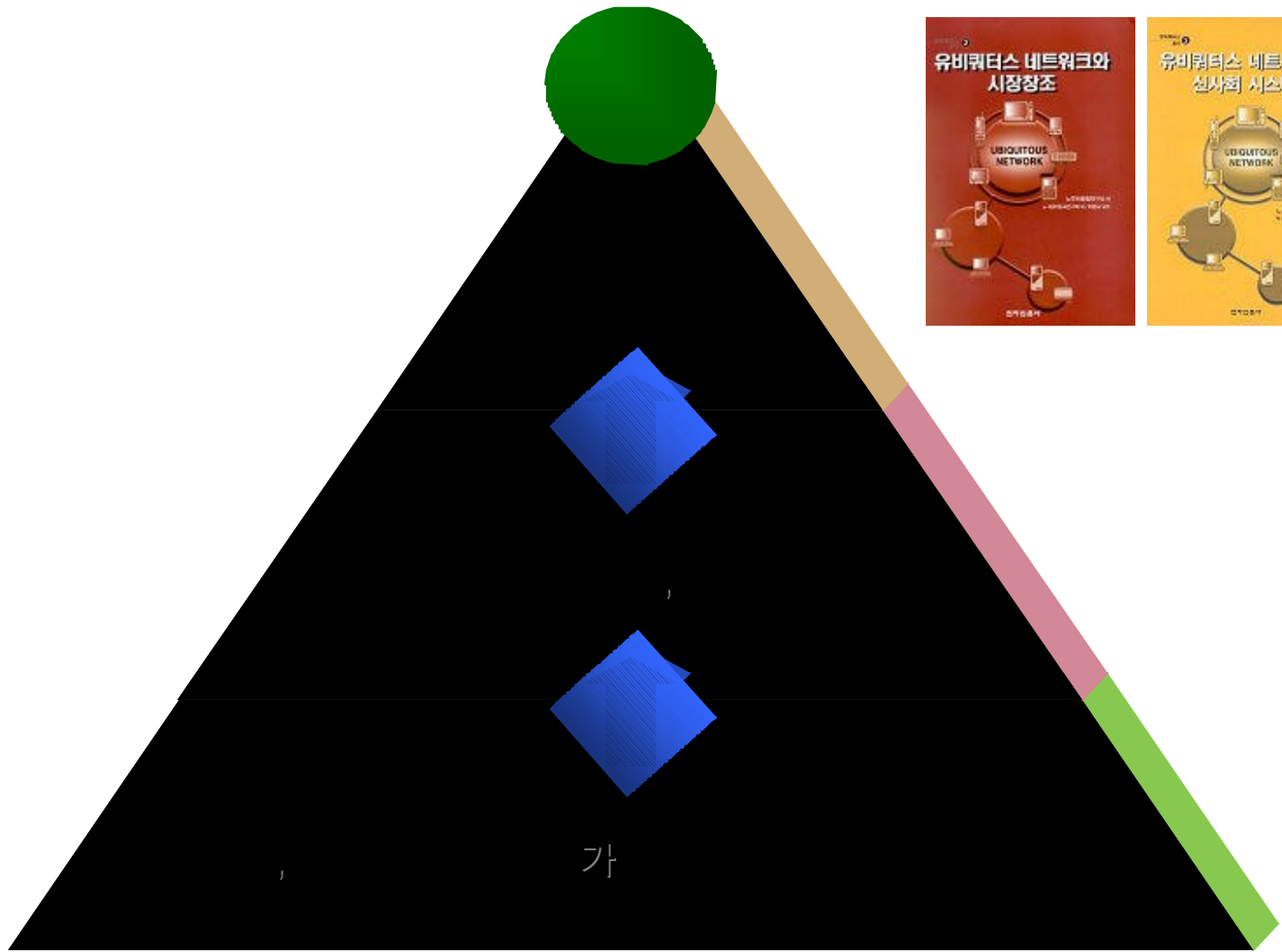
IT



< '05~'06년 유비쿼터스 주요 이슈 조사 결과 >

|                   |   |                   |   |  |  |
|-------------------|---|-------------------|---|--|--|
| 2005년<br>키워드      | 1) DMB<br>2) RFID<br>3) WiBro<br>4) USN<br>5) u-City                            | 2005년<br>이슈<br>기술 | 1) DMB<br>2) RFID<br>3) WiBro<br>4) 텔레매틱스<br>5) 홈네트워크 | 2005년<br>이슈<br>서비스   | 1) 지상파/위성DMB서비스<br>2) RFID 물류,유통서비스<br>3) 텔레매틱스서비스<br>4) 위치정보서비스<br>5) 홈네트워크서비스    |
|                   |   | ↓                 |   |  |  |
|                   |   | 2006년<br>주요<br>기술 | 1) WiBro<br>2) DMB<br>3) RFID<br>4) 홈네트워크<br>5) 센서기술  | 2006년<br>주요<br>서비스   | 1) WiBro서비스<br>2) 지상파/위성DMB서비스<br>3) RFID 물류,유통서비스<br>4) 홈네트워크서비스<br>5) 텔레매틱스,위치정보 |
| 2005년<br>주요<br>성과 | ①u-City확산과 강력한 추진<br>②DMB서비스의 본격 출시<br>③정부주도의 산업전략 및 기술 개발<br>④내비게이션 시장의 폭발적 성장 |                   | 2006년<br>당면<br>과제                                     | ①유비쿼터스사회로의 진입을 위한<br>기반 정비(정책, 법제도 등)<br>②유비쿼터스 리더로서의 위치 확립<br>③유비쿼터스 기술 및 서비스 확산<br>방안 마련 |  |

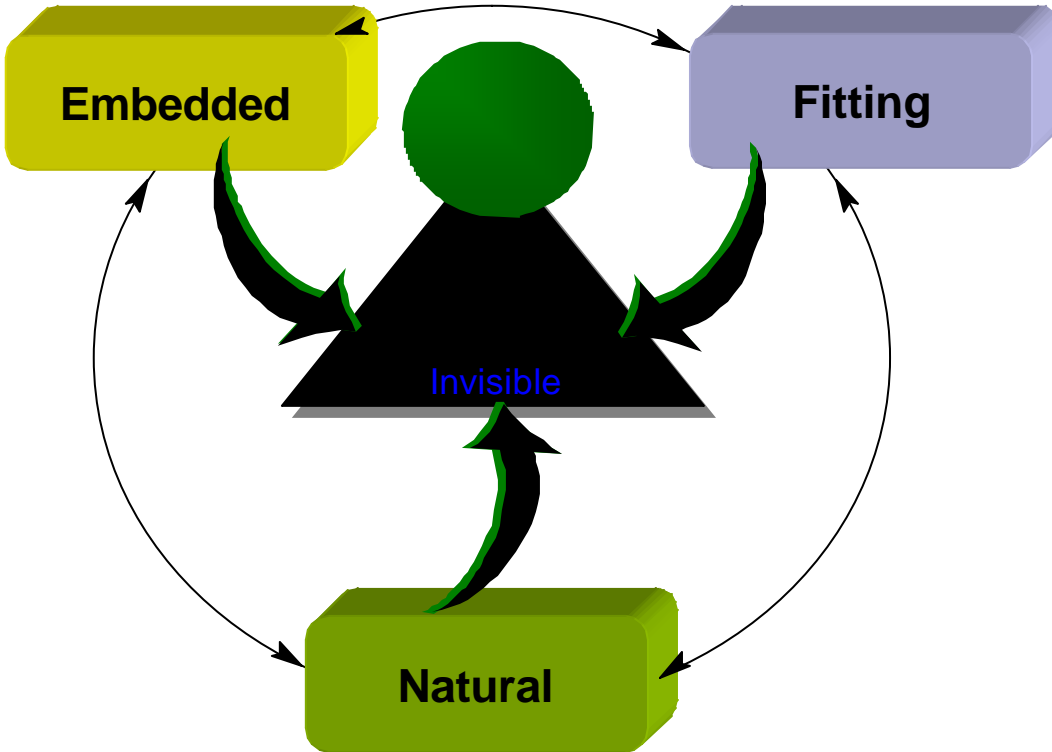
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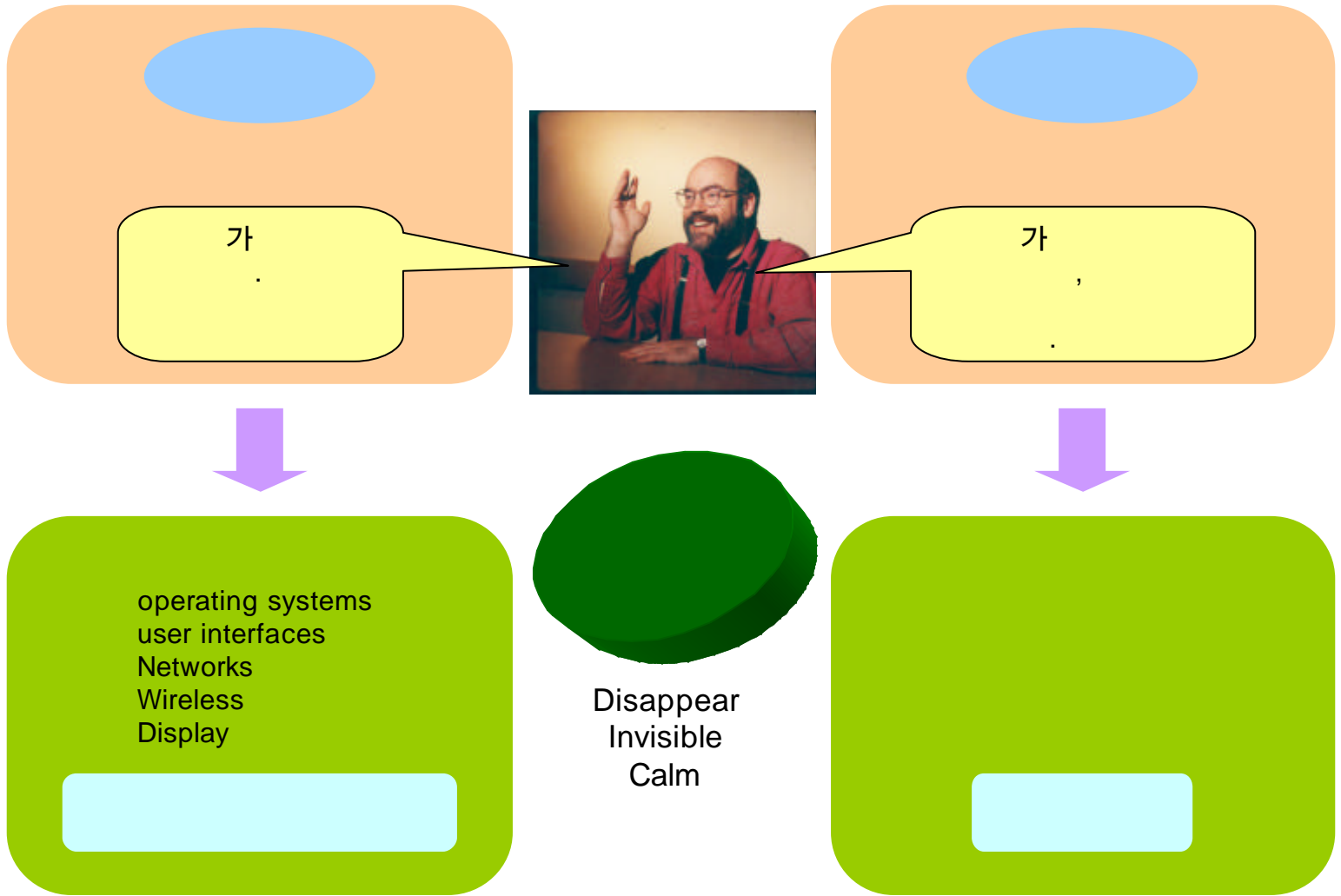
Disappear

Invisible

Calm Technology

Mark Weiser



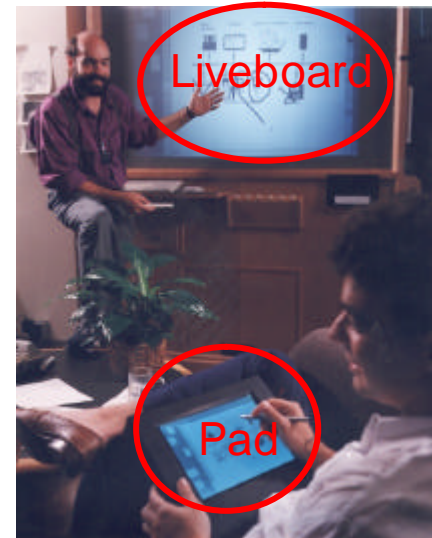


The most profound **technologies** are those that **disappear**. They weave themselves into the fabric of **everyday life** until they are **indistinguishable** from it.

Ubiquitous computing is the method of enhancing **computer use** by making many computers available throughout the physical environment, but making them effectively **invisible** to the **user**.

The important waves of technological change are those that fundamentally alter the place of technology in **our lives**. What matters is not technology itself, but its **relationship to us**.

**Calm** technology engages both the center and the periphery of our attention, and in fact moves back and forth between the two.



( )



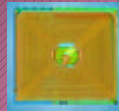
가 .



-Refrigerator-



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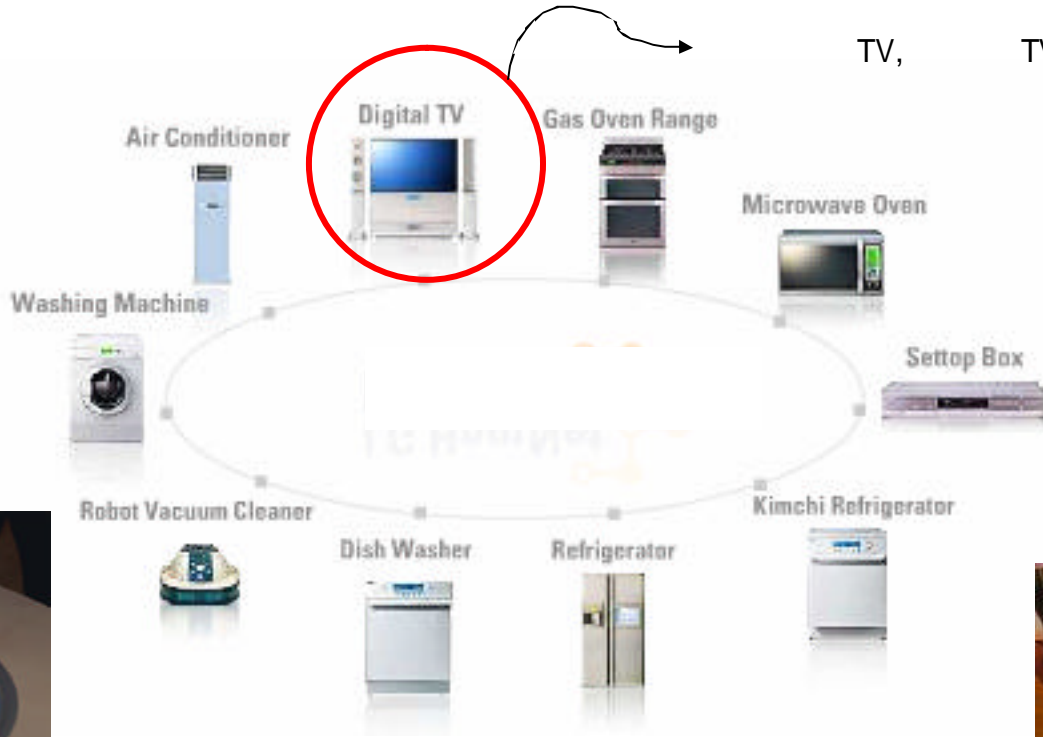
RF



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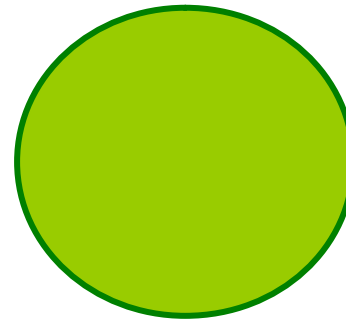
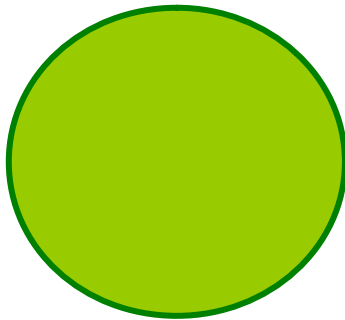
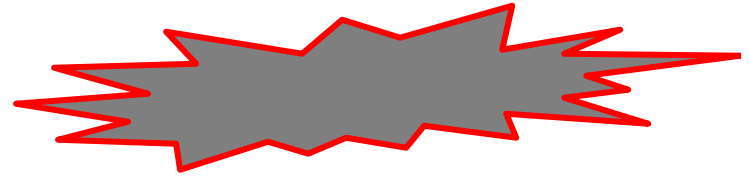
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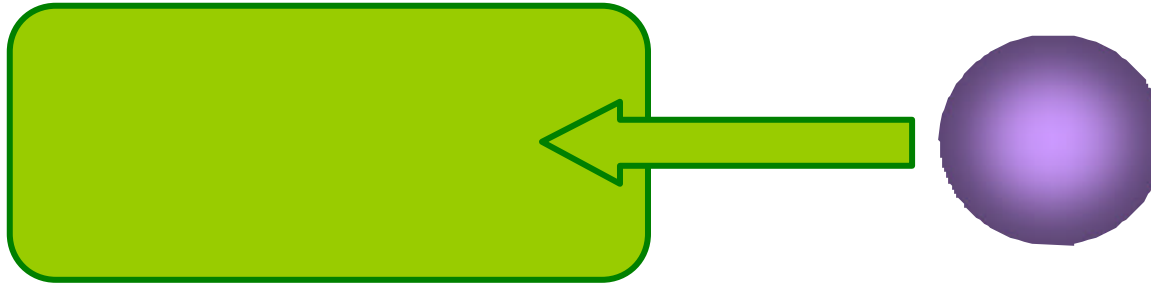
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\*  
⋮  
⋮



( , .)

RFID



가?  
가?  
가?  
가?

# 유비쿼터스 컴퓨팅

< > Pervasive computing  
Ambient computing





## 유비쿼터스는 지우개다

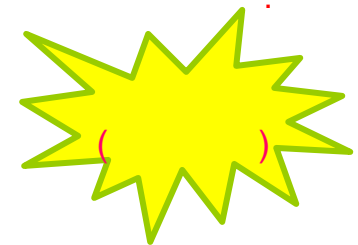
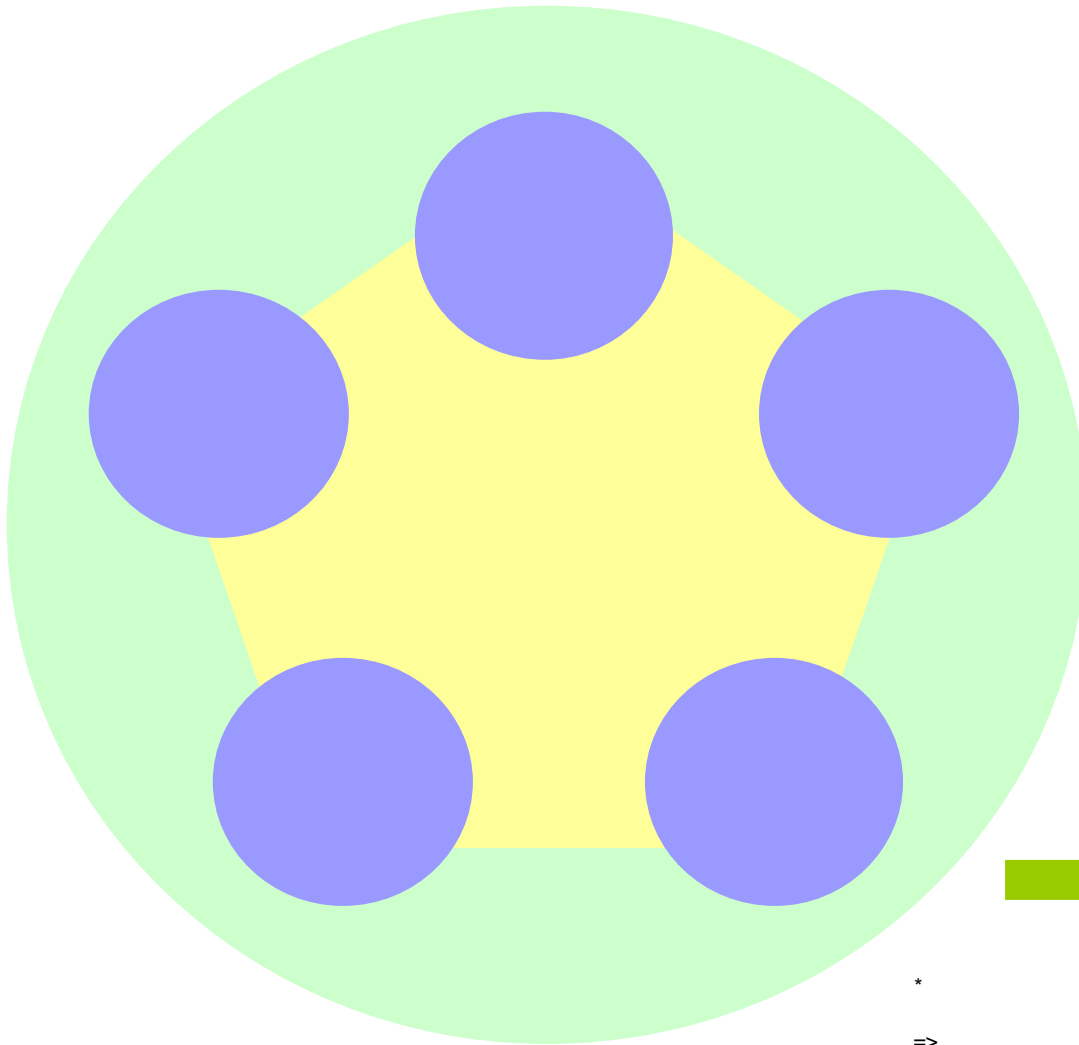
RFID시스템이 알아야 하는 바코드를 지웁니다  
 유비쿼터스 지우개는 지우고, 유비쿼터스는 새로이 글 만들어 냅니다. 유비쿼터스는 유비쿼터스 지우개입니다.  
 유비쿼터스 지우개는 유비쿼터스 지우개입니다. 유비쿼터스 지우개는 유비쿼터스 지우개입니다.





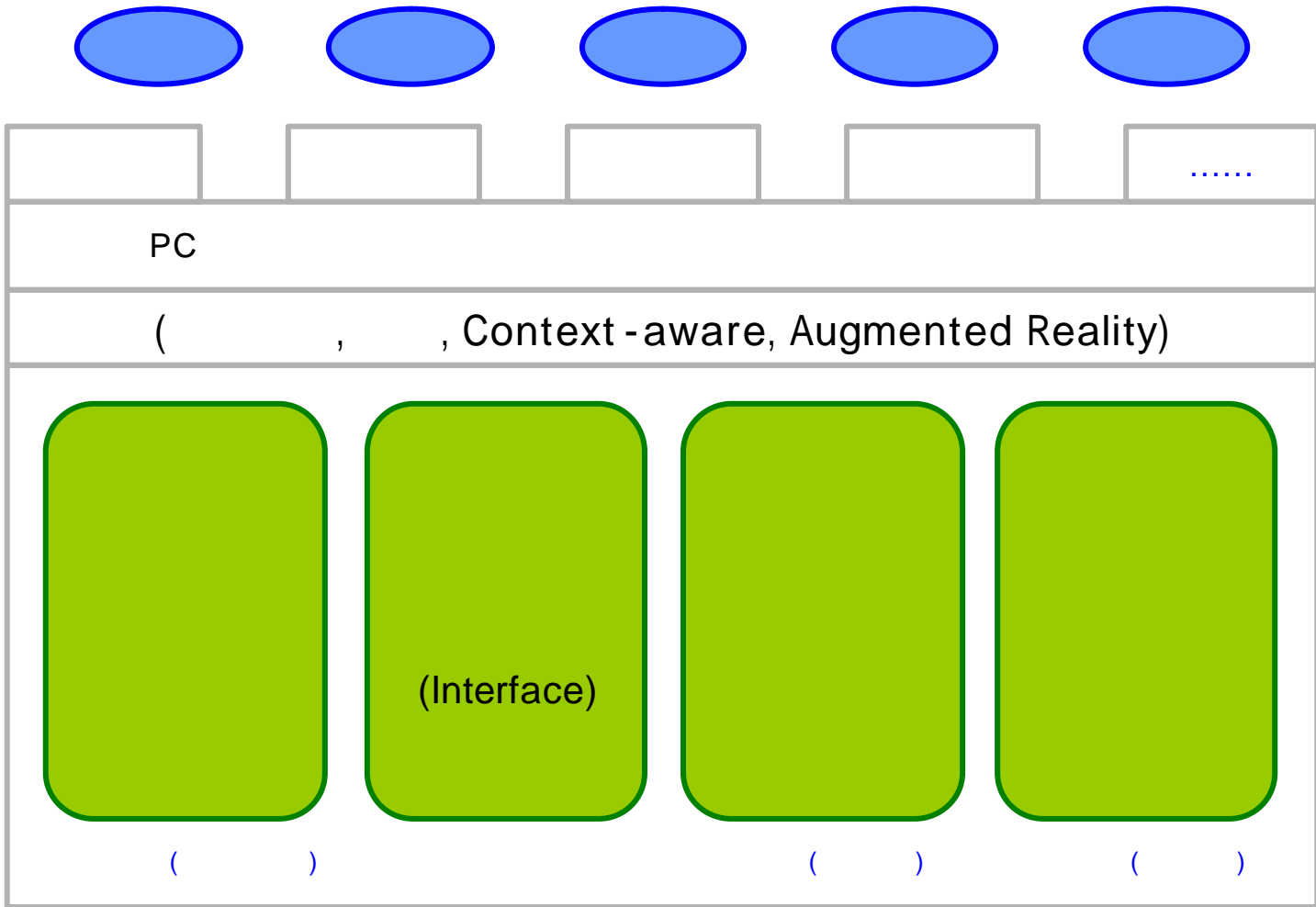
## 유비쿼터스는 지우개다

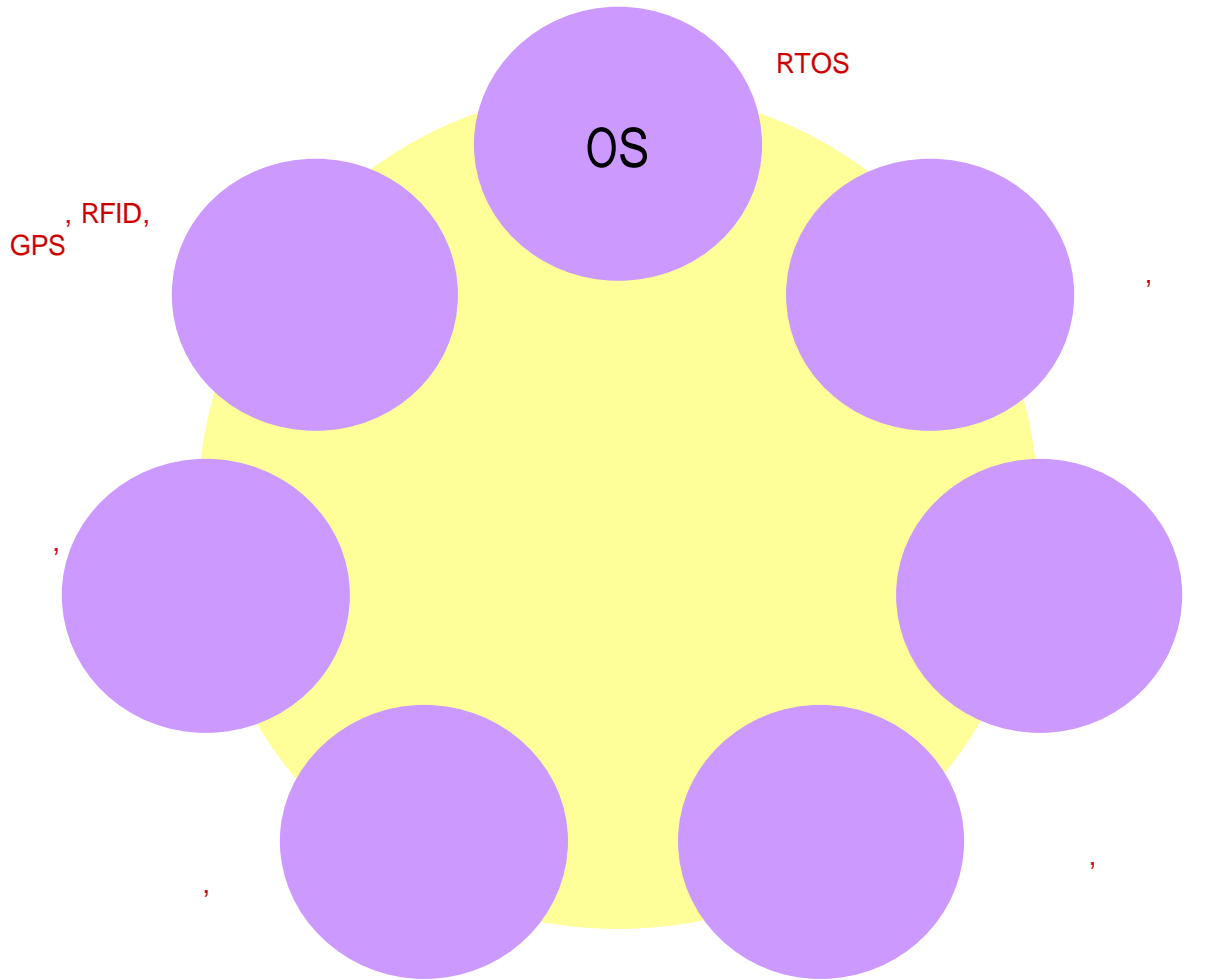
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PDA



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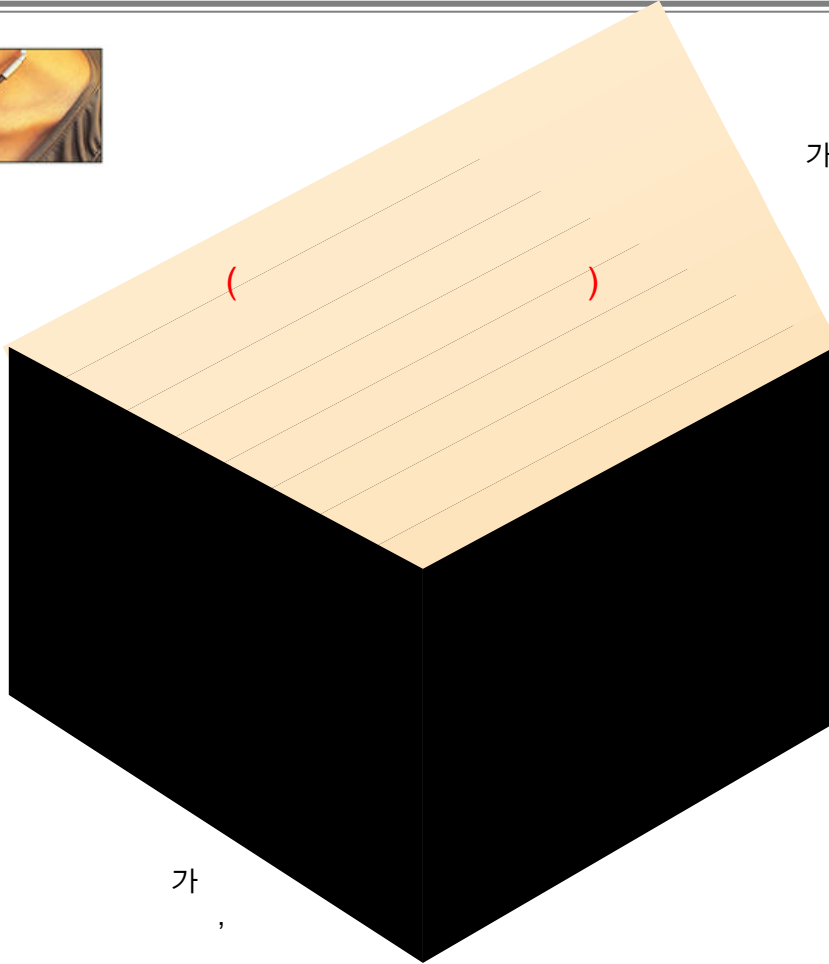
MP3



가







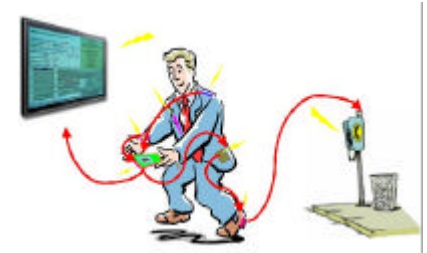
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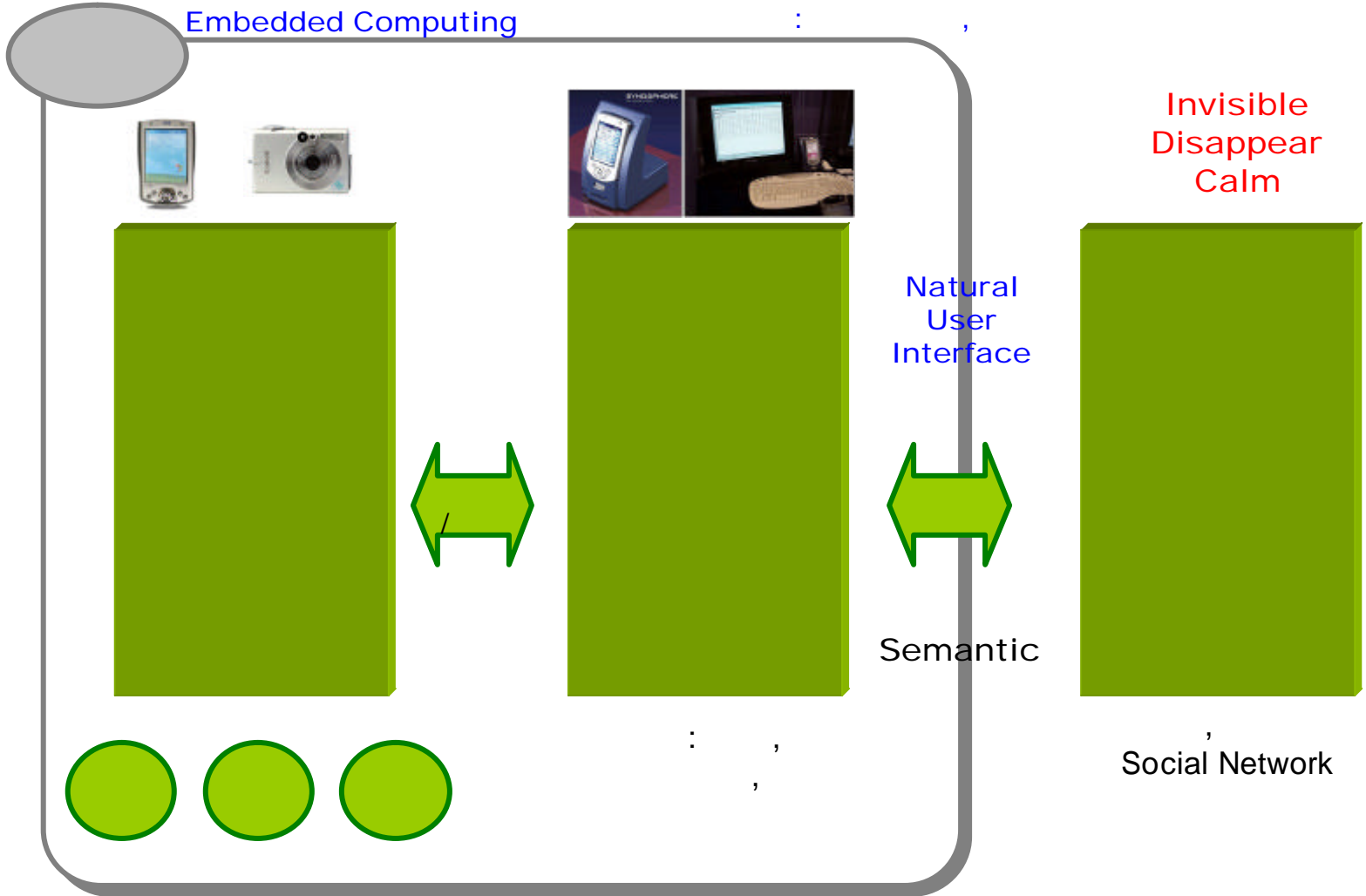
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가

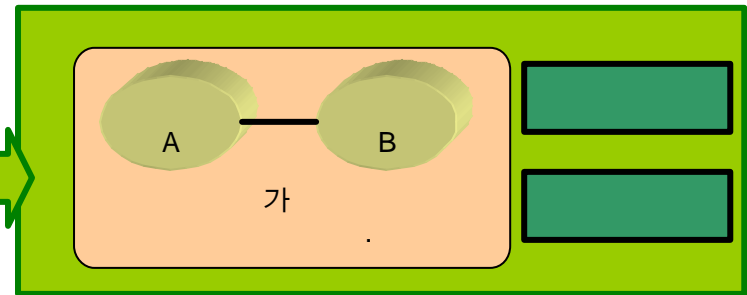
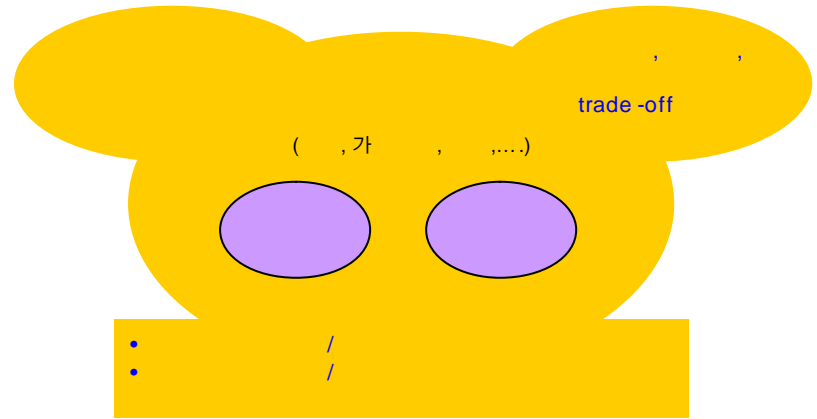
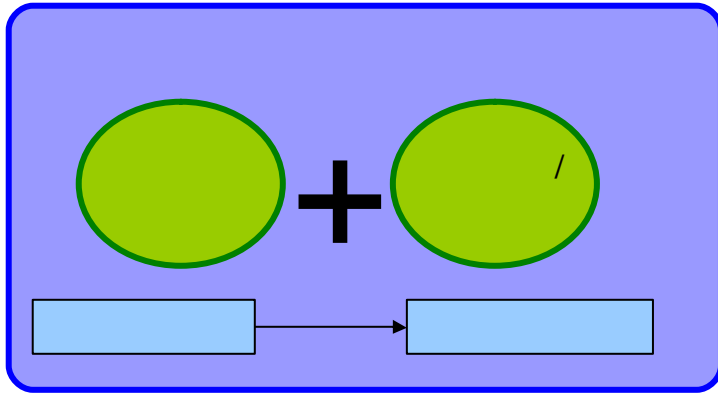
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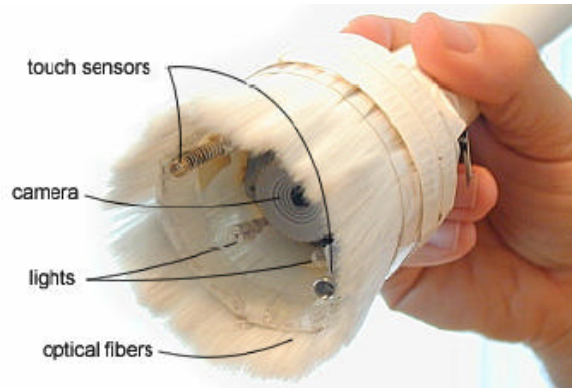


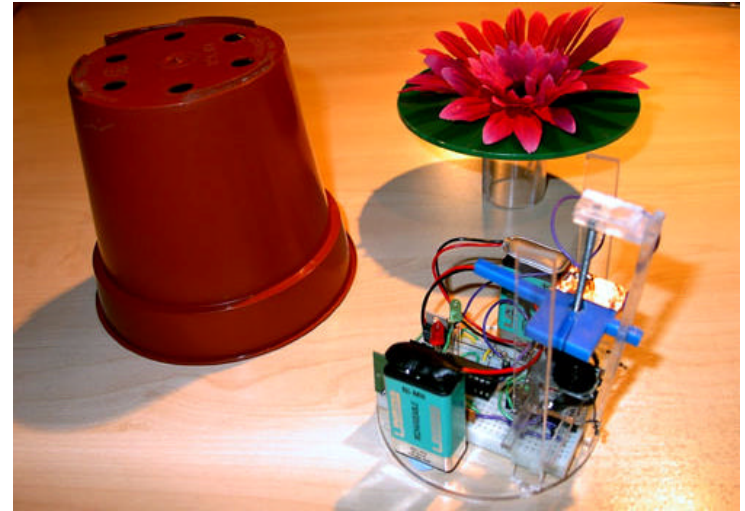
# Embedded Computing











Haromatherapy  
Designed by BANDAI

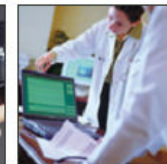
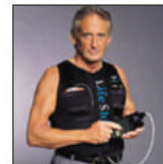
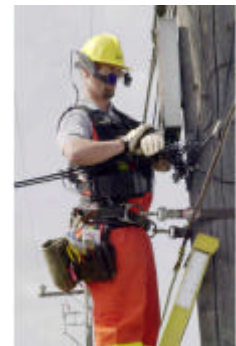
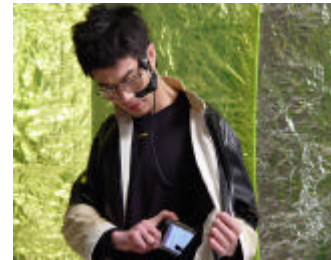
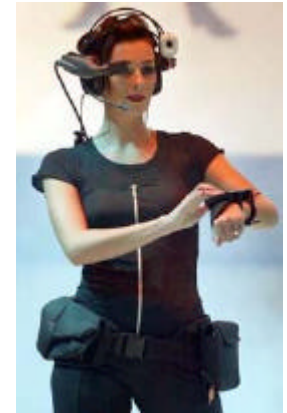
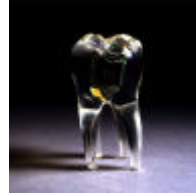




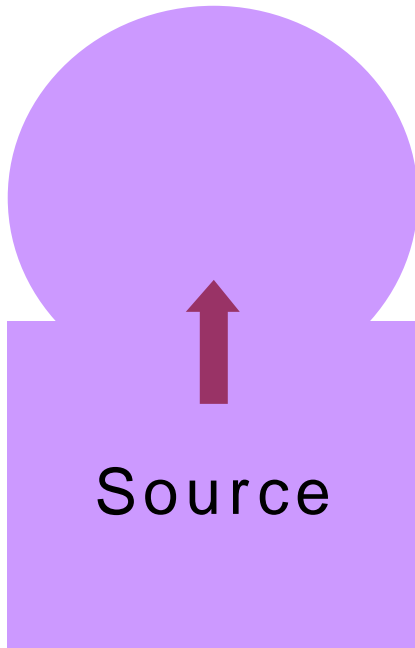


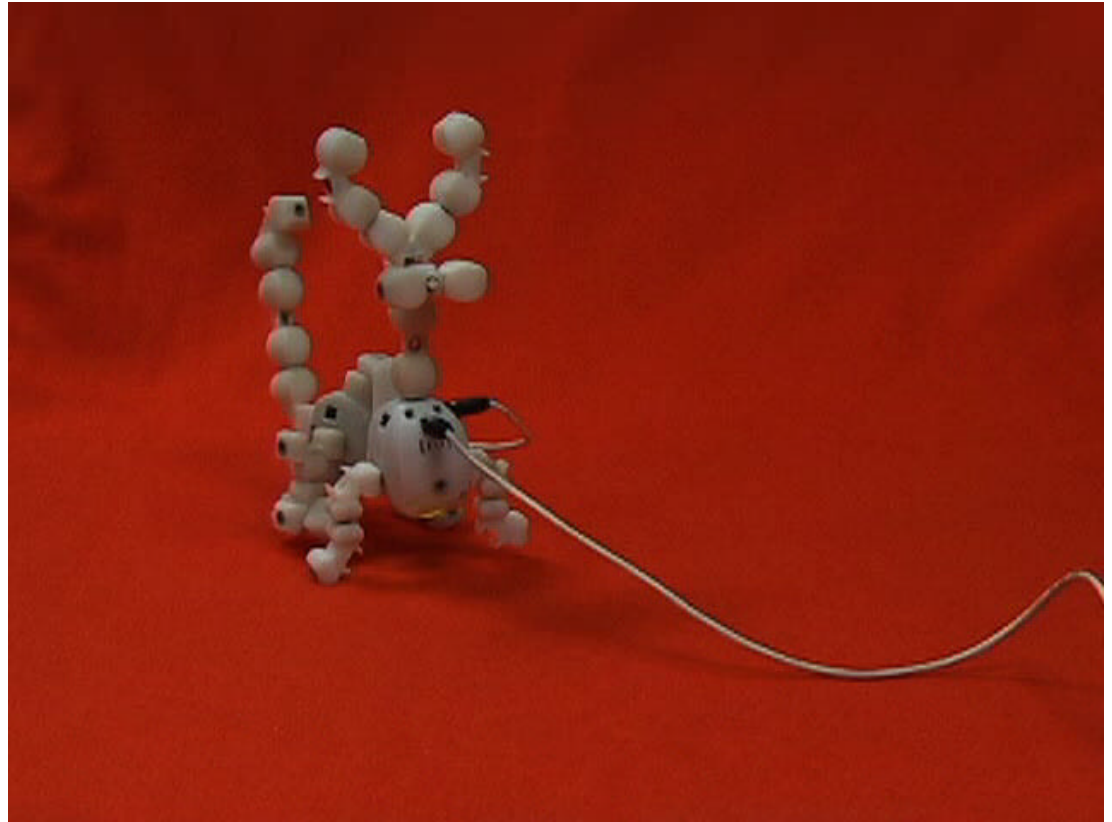
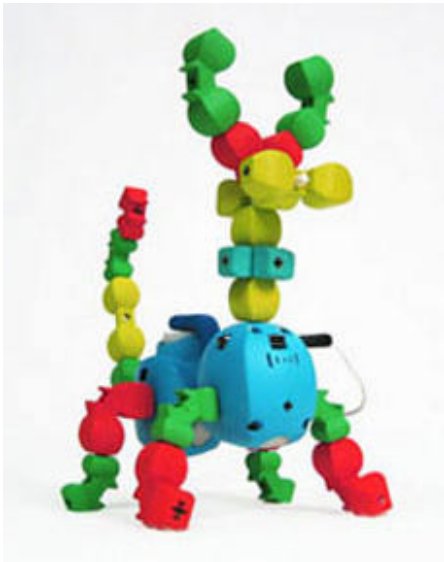
# Wearable

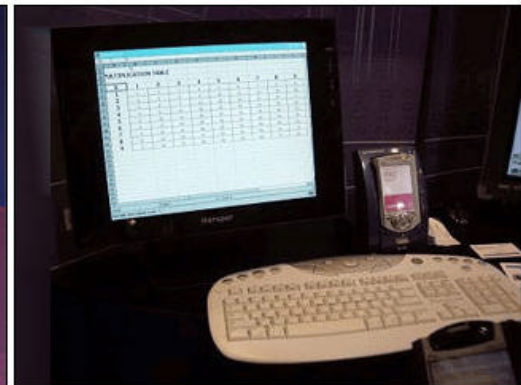
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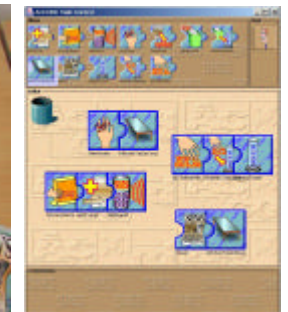
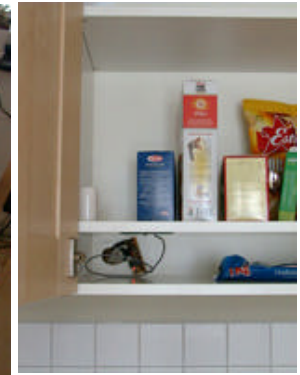
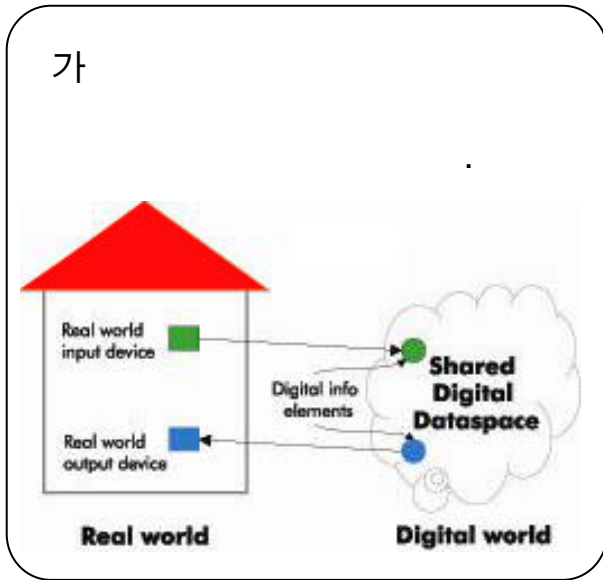






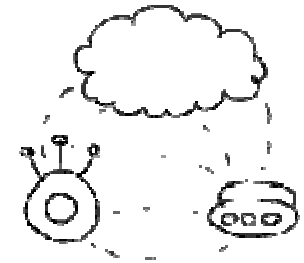
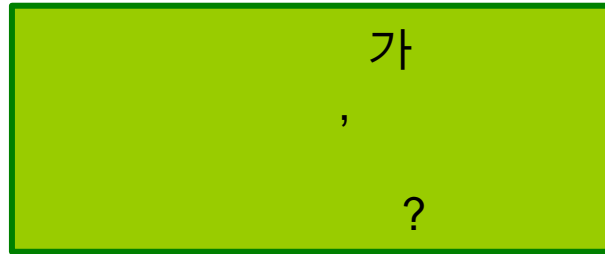
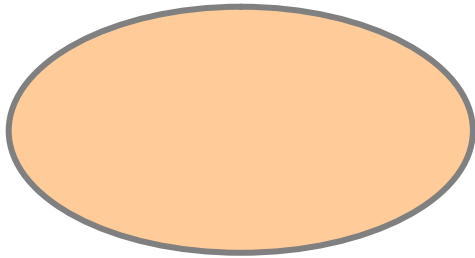


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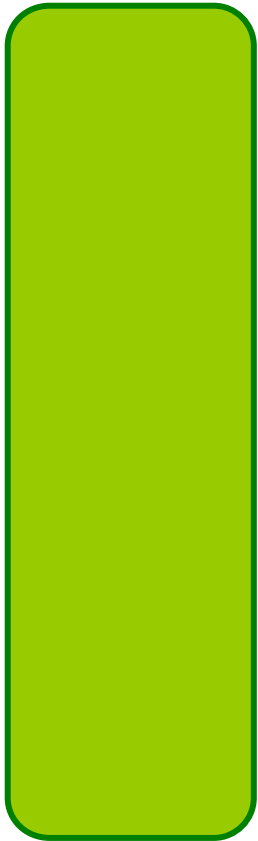
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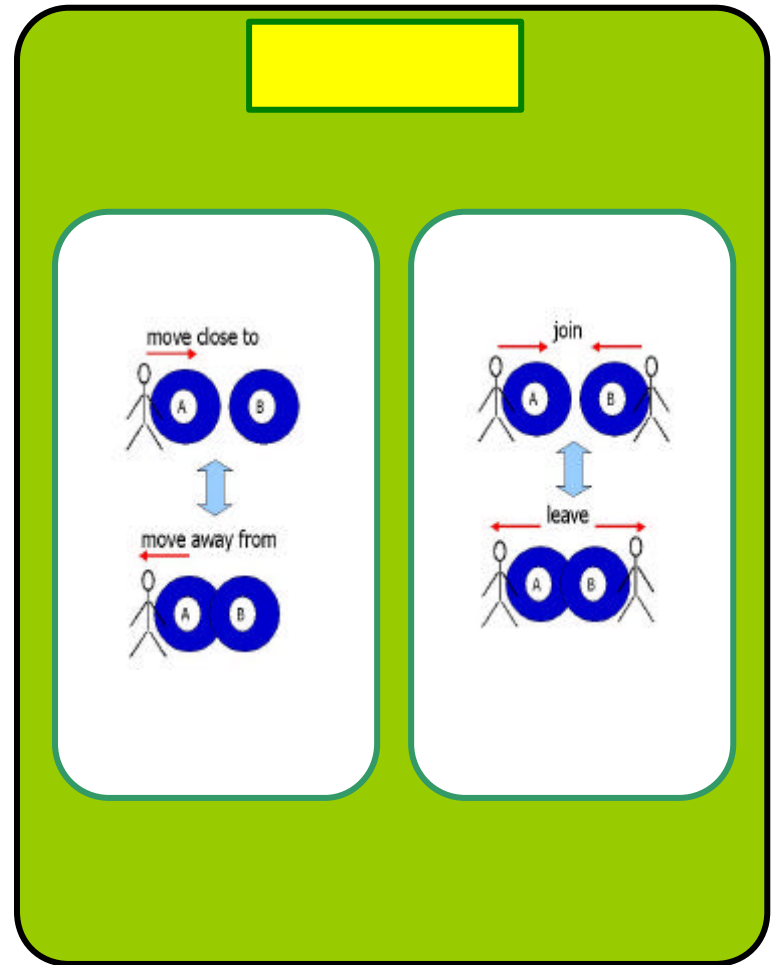
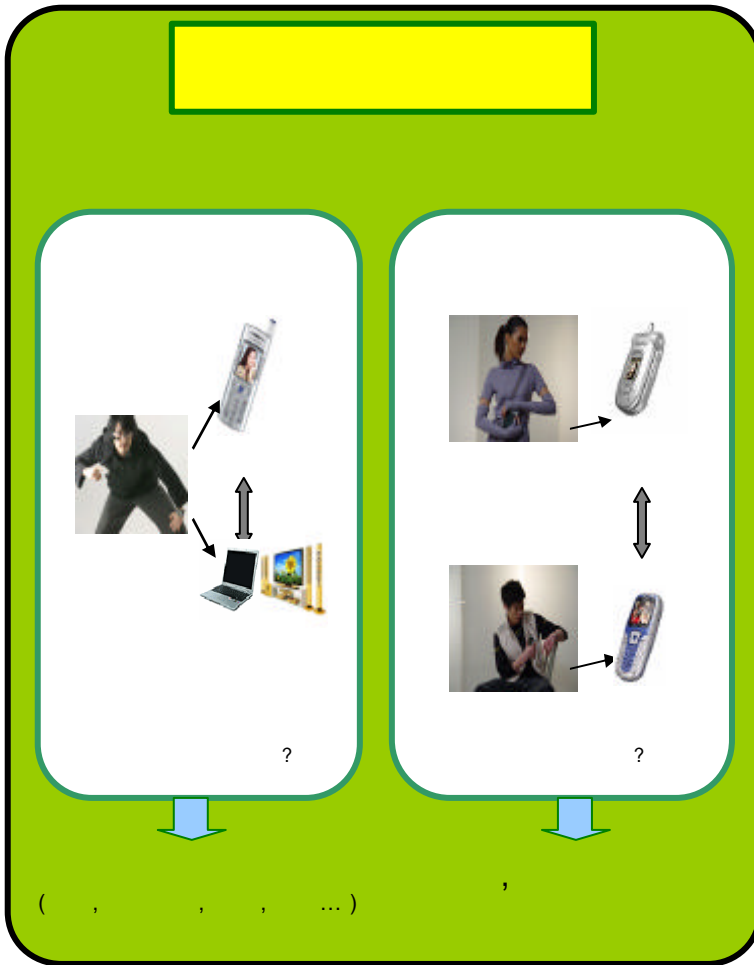
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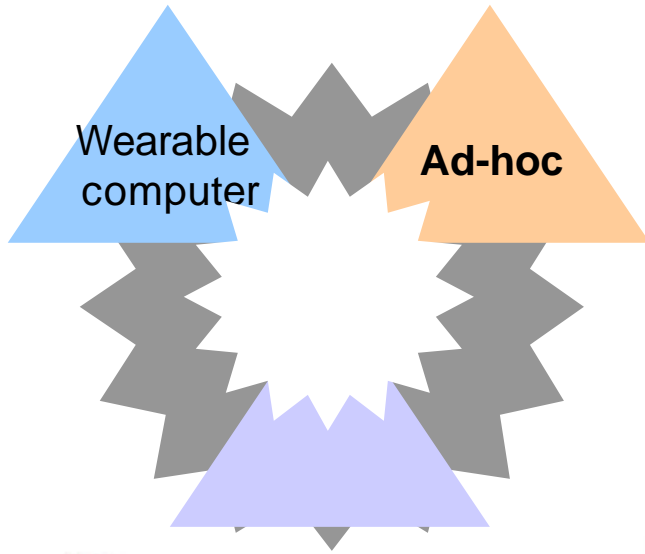


\* (metaphor):

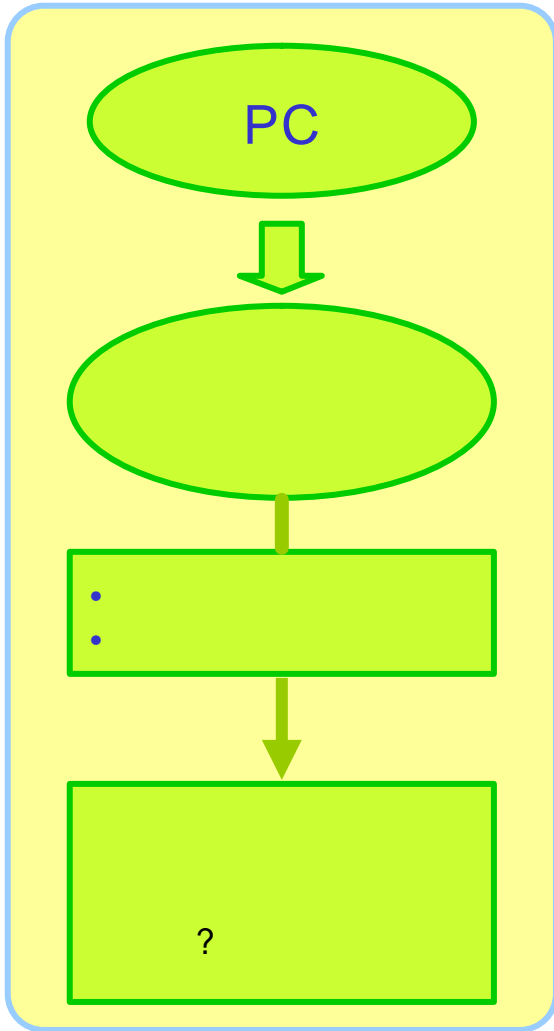
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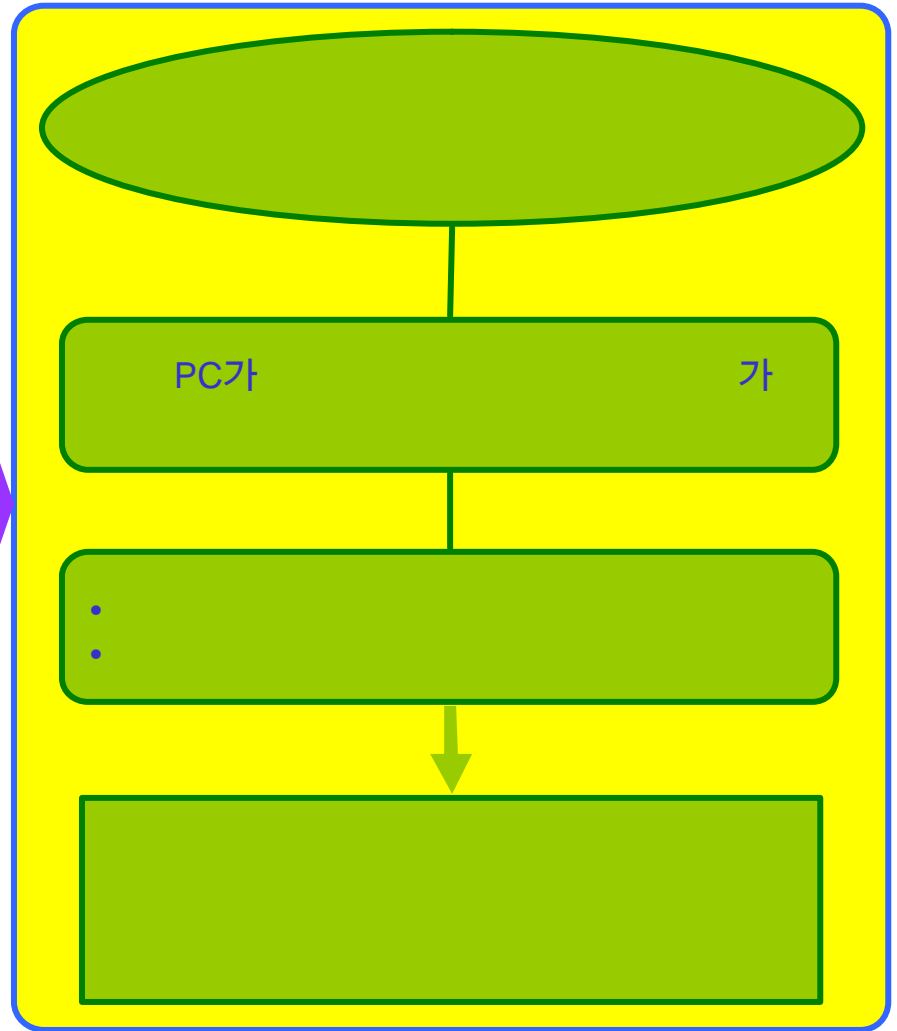






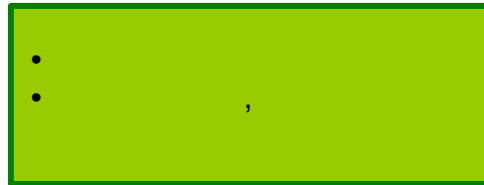
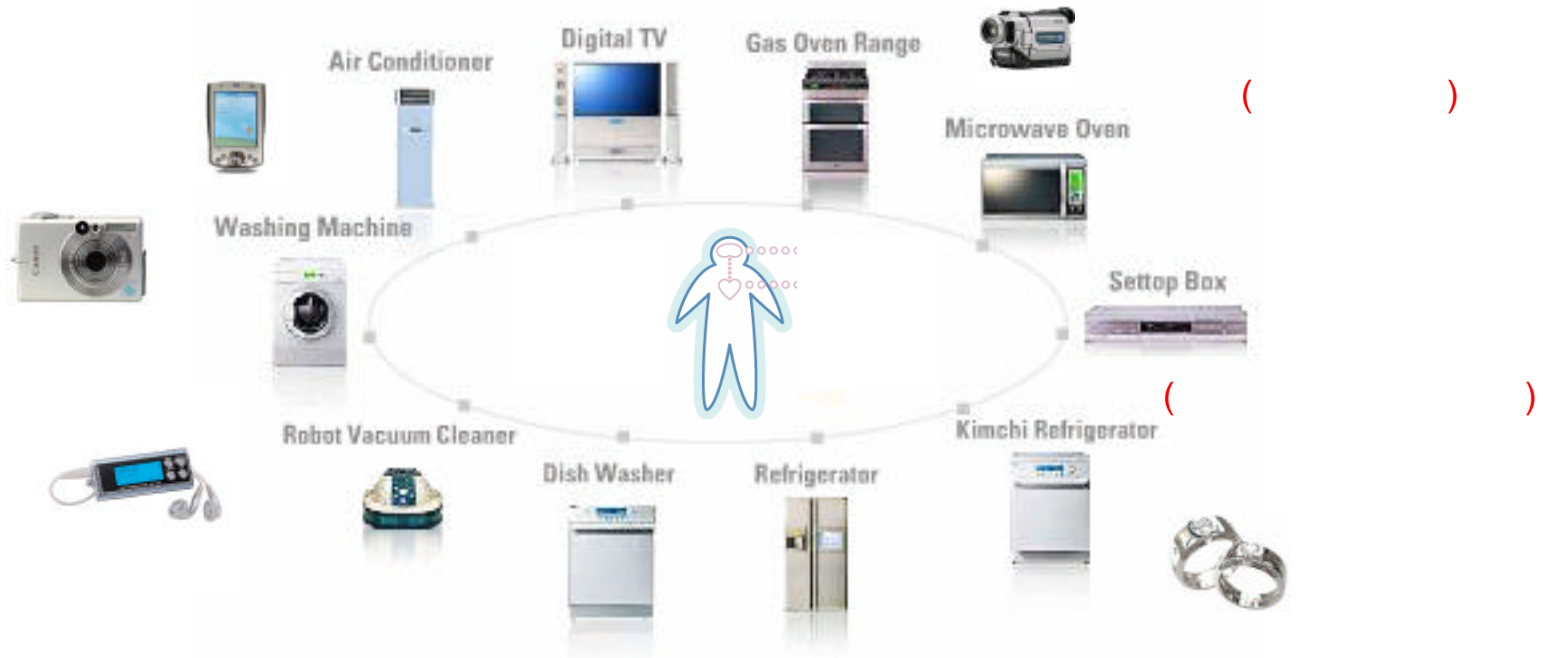


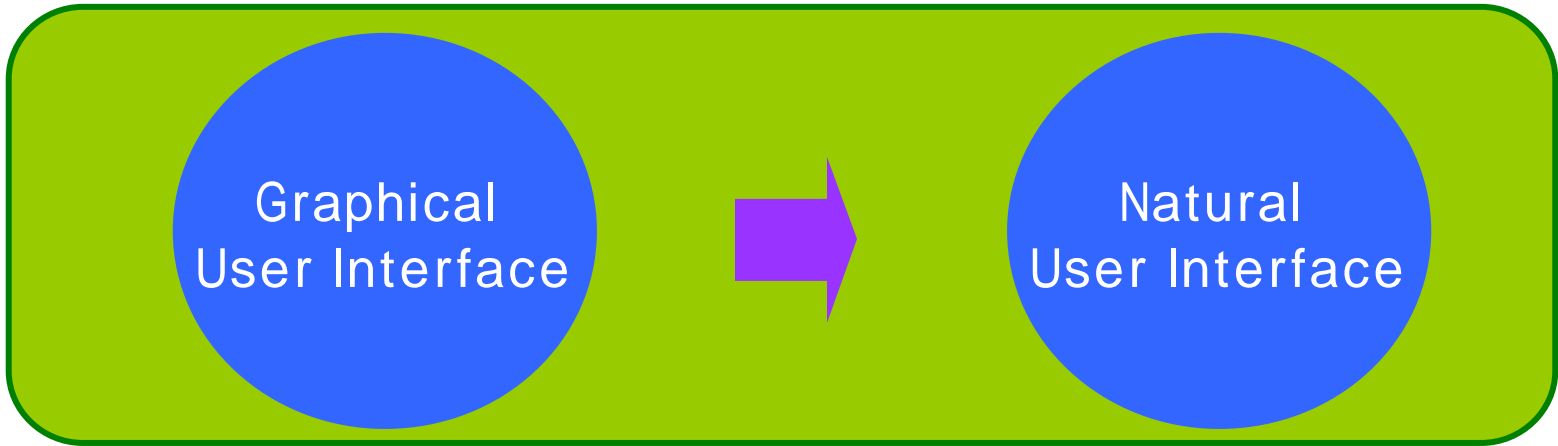
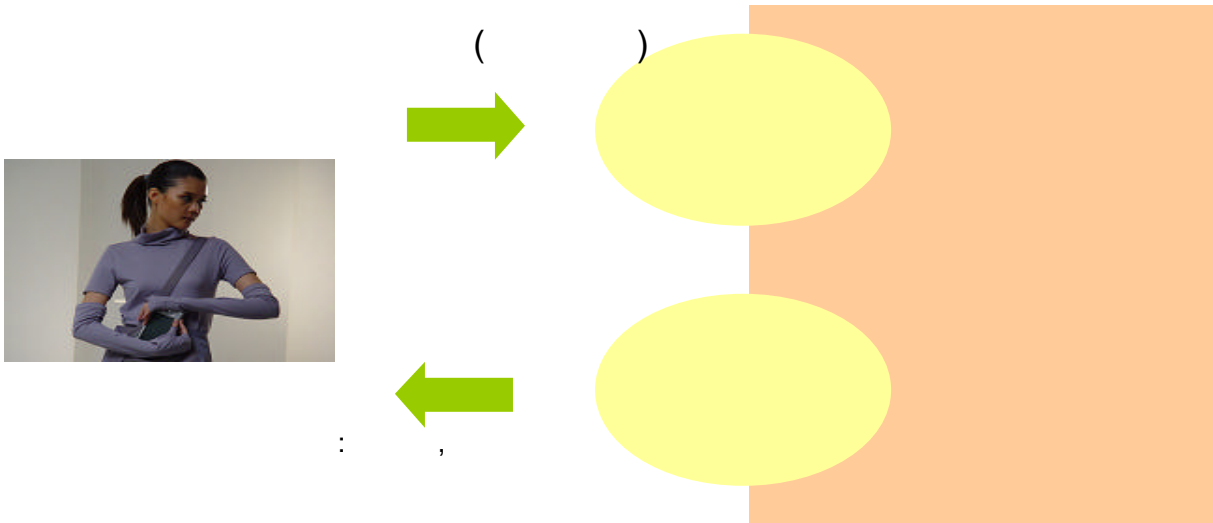
(<http://www.ubiu.net>)

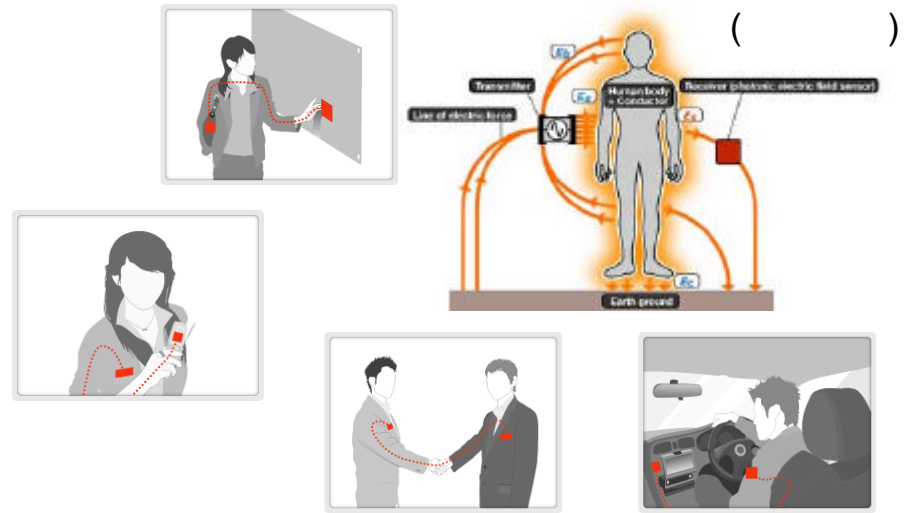


PC

가 .







## Touch



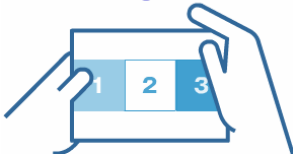
## Roll



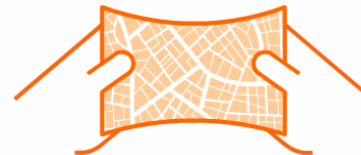
## Build



## Throw



## Bend



■ ■





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