

Ubiquitous Computing

Henry Liou



70%



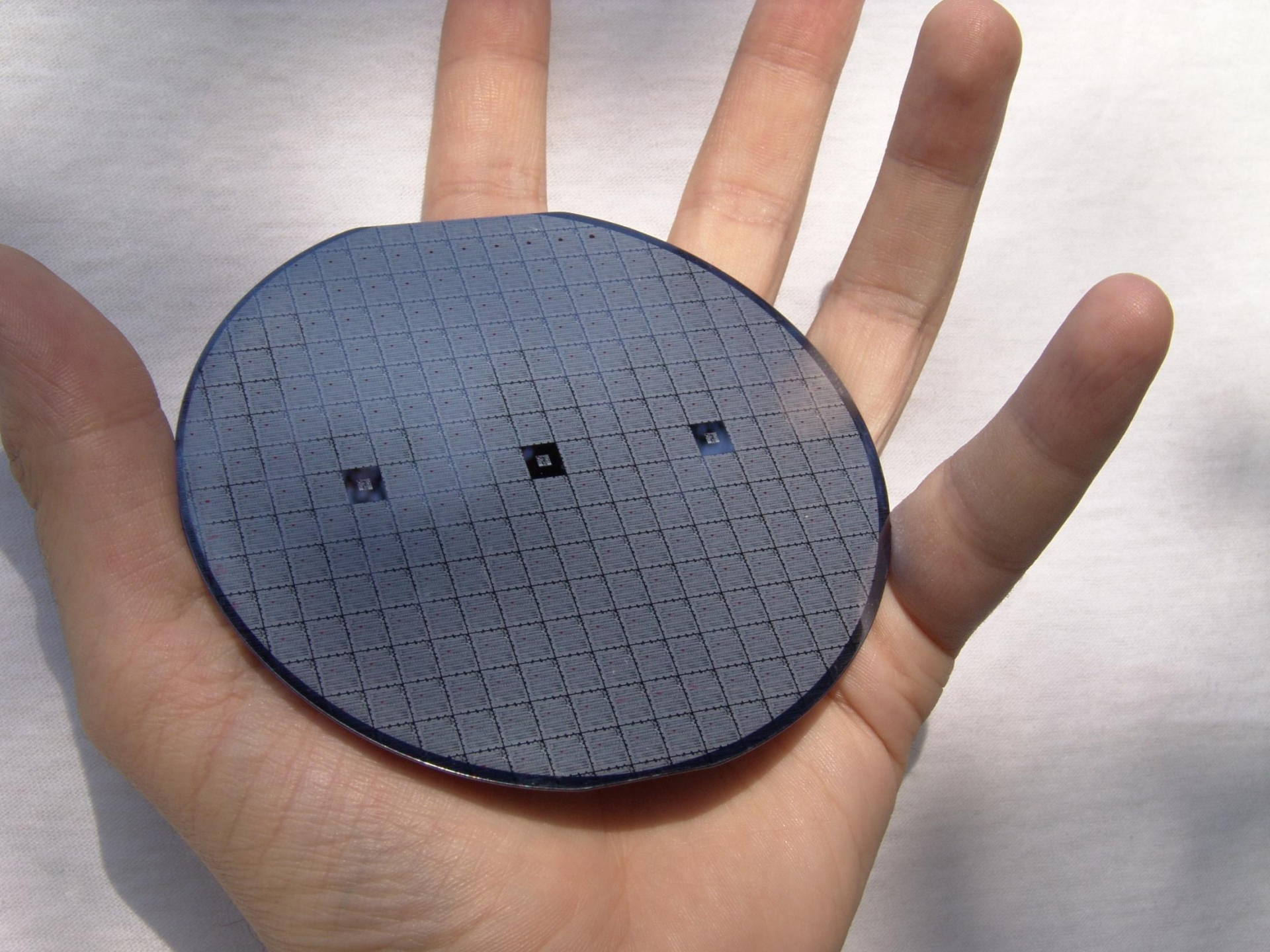
30%

Percent of grade based on participation

The Computer for the 21st Century

Mark Weiser (1991)





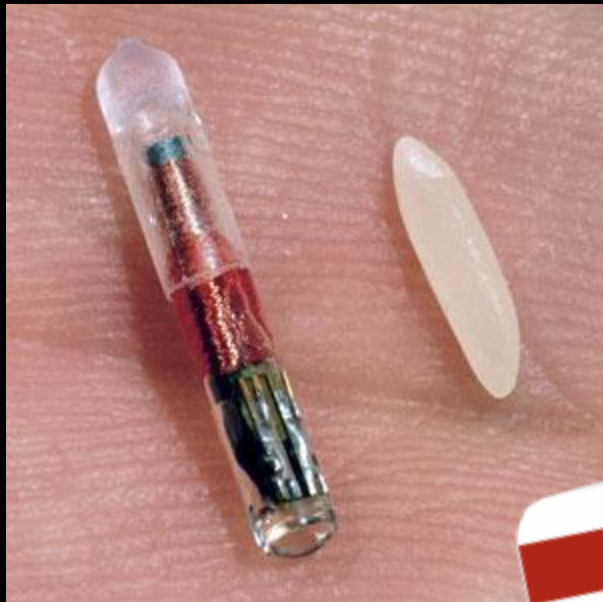
Why has **silicon-based technology**
been slow in becoming
part of our environment?

How much of Weiser's **vision**
is true today?

Ubiquitous computing
vs.
Virtual reality

“Doors open only to the right badge wearer,
rooms greet people by name,
telephone calls can be automatically forwarded to
wherever the recipient may be,
receptionists actually know where people are,
computer terminals retrieve the preferences
of whoever is sitting at them,
and appointment diaries write themselves.”

How should we handle the tradeoff
between **convenience** and **privacy**?



Stanford University

Student

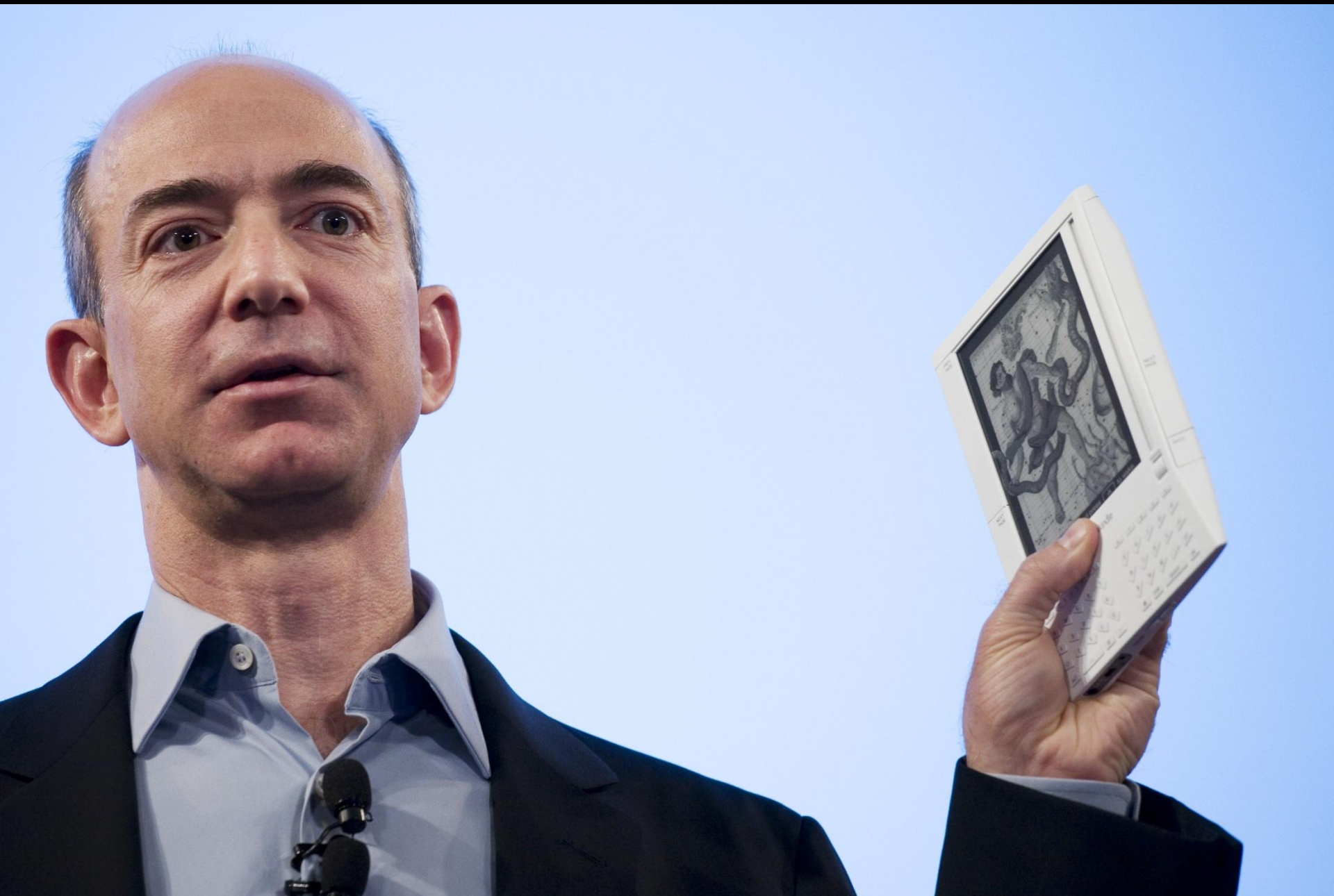
Stanford, Jr., Leland
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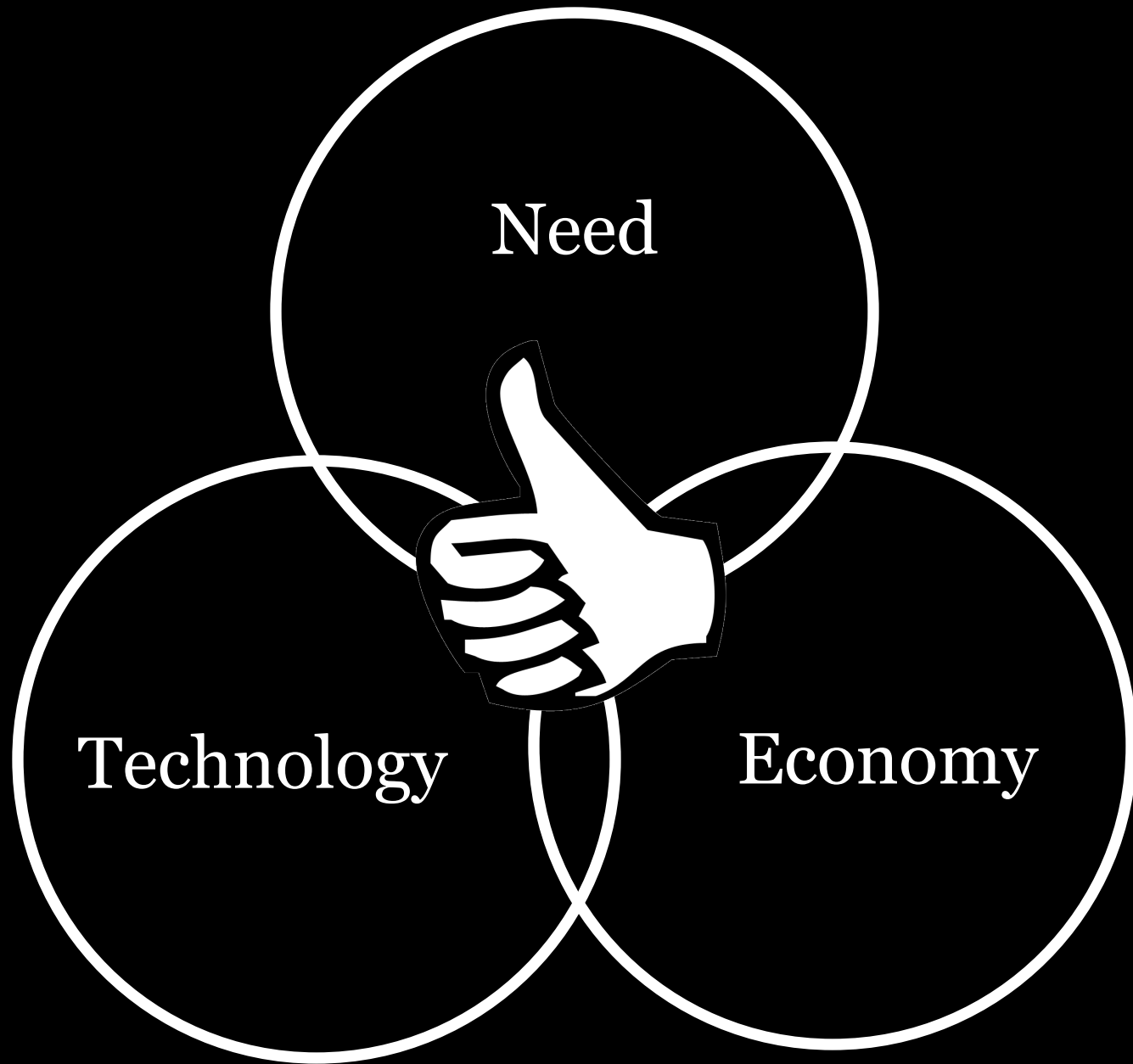


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27040, WA
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Two Mountain Winery
2121 Cascade Rd.
2500, WA
(360) 828-0100

Quilceda Creek

Microsoft Surface



Need

Technology

Economy

Charting Past, Present, and Future Research in Ubiquitous Computing

Abowd and Mynatt (2000)

Natural Interfaces



Gregor Hinstie Callista age 47/48
born 1950?

younger brother - Georges
Greg age 3 when born

Gwen
Georges - byff
Former
Corp

twin sister - Gwendolyn Emily Quirida - born 1950
older

Gwen - 32/7 when married Robert - age 24

30 when had Rose

died @ 20247 by DE-AK?

42 when Francis died 77

Mae -
Robert - byff

Gregor met Mae @ age 29 Mae was 24
married 6 months after

Violet born when age 32/27
Ashton born when age 36/31

Violet died age 15 - AK

Robert Quirida died age 34 of malaria

Robert +
Georges
best friends

Frank + Mahria - 32/31 when married

Gwen + Greg born @ ages 35/34

George born @ ages 38/37

Mahria died age 65 - AK by Voldemort

Gwen +
Mina
best friends

Georges - married Mina ages 23/26

Jason born @ age 24/27

Georges - 44
Mina - 47
Killed some
rights
Gwen

Greg works @ Ministry - Auror

Frank born 1915
Mahria 1916

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Context-Awareness



Capture and Access

Stanford Center for Professional Development
STANFORD UNIVERSITY

CS143: Introduction to Compilers
Instructor: Jim Chow

Bookmarks Display Hide Imported Auto-Sort

- 80-13-35 Non-quasi static effect
- 80-17-45 Fluctuation dissipation theorem
- 80-20-10 Final model that incorporates intrinsic noise contributions
- 80-20-49 Extrinsic noise sources
- 80-21-35 Gate electrode material not being super-conductive
- 80-22-23 Reduce Rg using an important layout arrangement - Make parallel versions of the transistor so that w is small enough that end to end resistance is neglected.

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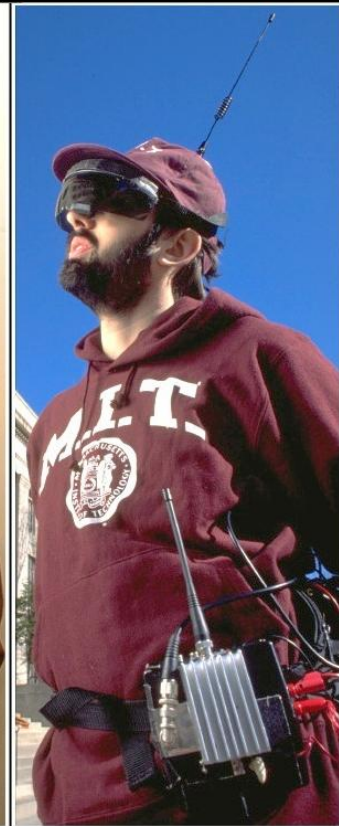
Video Time Hrs: 00 Min: 13 Sec: 33

Hard to build wireless networks at much higher than 5-10 GHz since it begins to look more like light with its path losses and scattering

Save Bookmark

Source: Homebrew | Source: Videos | Discussion: Forums | Send feedback





What challenges will need to be solved before ubiquitous computing can truly succeed?

Everyday Computing



No clear beginning or end

Interruptions are expected

Multitasking is the norm

Time is relevant

Associative models are needed