

Prof. Dr. Jan Borchers Media Computing Group RWTH Aachen University Winter term 2011/2012

http://hci.rwth-aachen.de/dis



How to get the key out of BMW Series 1?

Theory

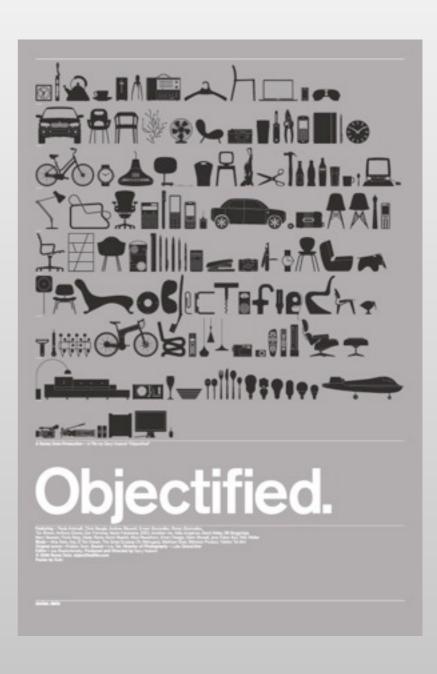
- √ Models of interaction
 - ✓ Affordances, mappings, constraints, types of knowledge, errors, feedback
- ✓ Design principles
 - ✓ Nine golden rules, responsiveness
- Human cognition and performance
- History and vision of HCI

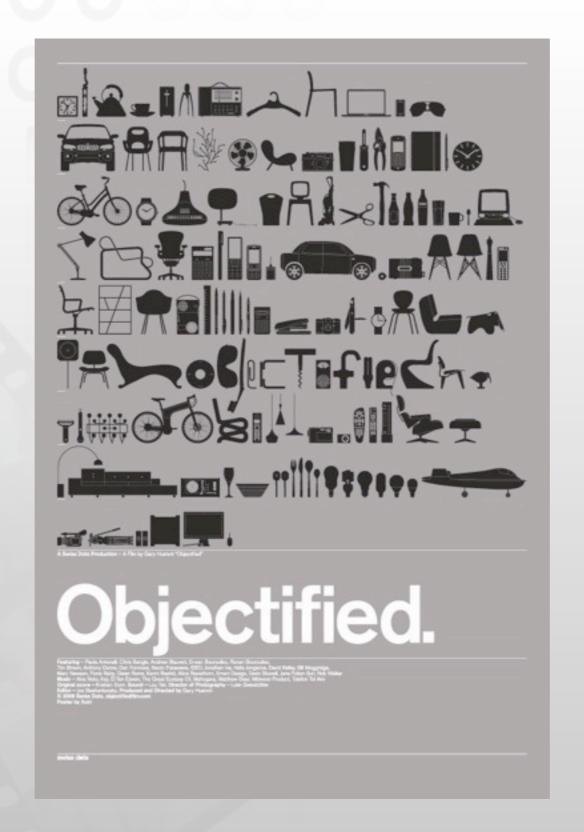
Practice

- **√** Sketching
- **√**User observation
- √ Iterative design
- ✓ Prototyping
- **√** Ideation
- User study and evaluation

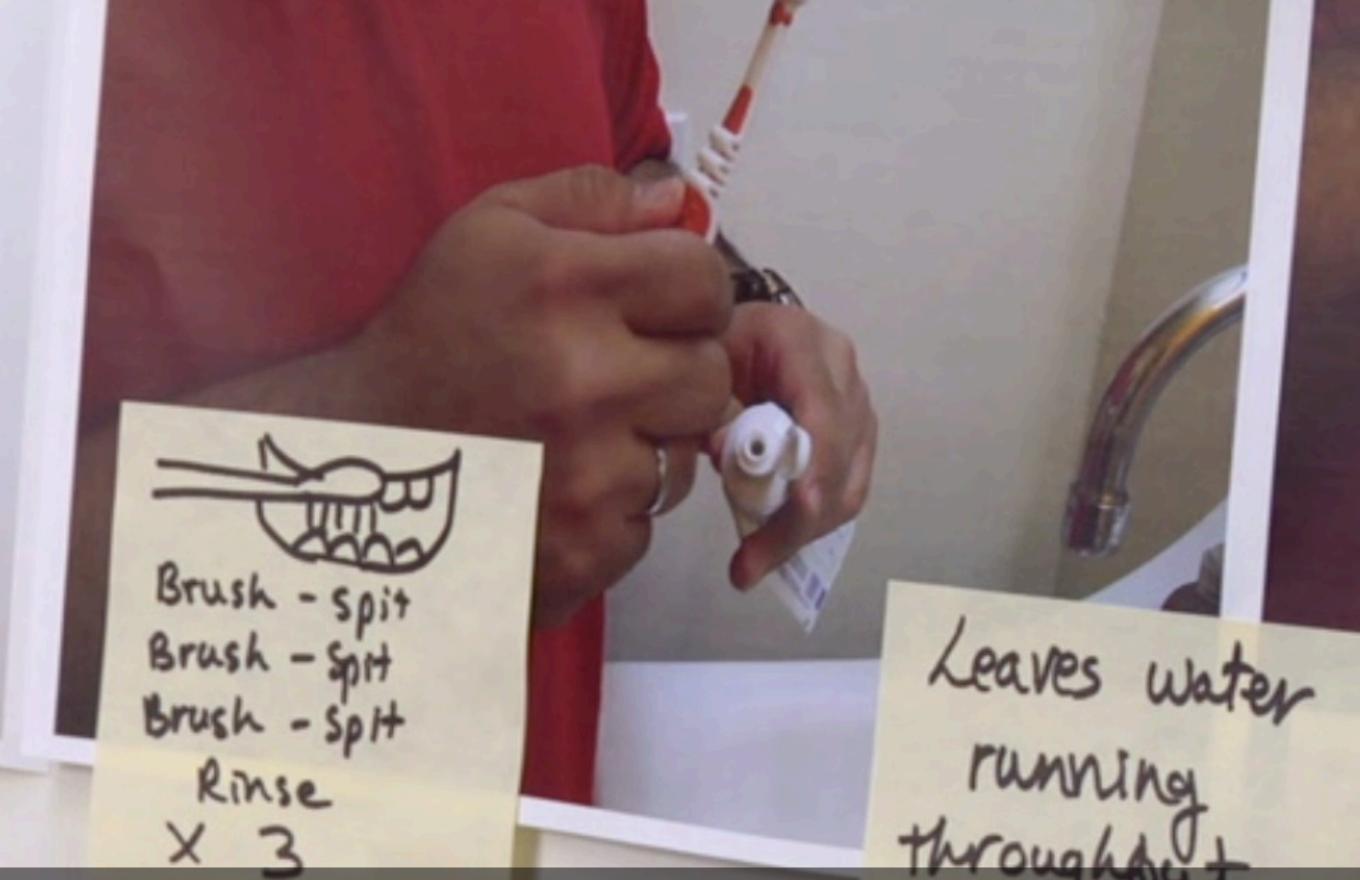
Objectified

- A documentary by Gary Hustwit
- Our complex relationship with manufactured objects and designers
- Broader context of design focused on industrial design
- Why
 - Because you may have to work with people from these disciplines
 - Trace another root of HCI
 - Different points of view of design





Objectified: Processes



"...looking at people and go through steps that people are going through as a source of inspiration."

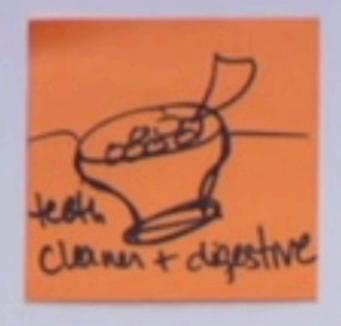
Jan Fulton Suri (IDEO) from Objectified



Discarded prototypes of a peeler From Objectified

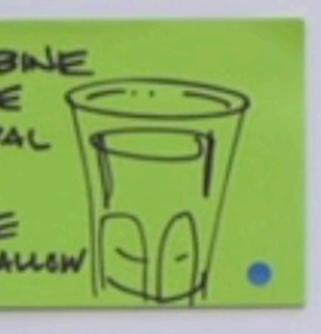


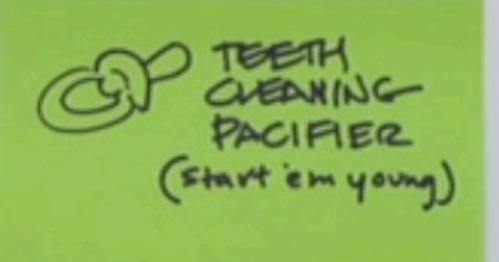
Drawing the pressure points on the glove From Objectified





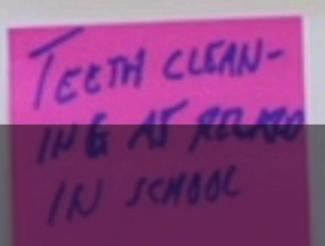






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GOTT-INSTITUTED FLOSSING NOMEST
IN PUBLIC SCHOOLS









Objectified: Food for Thought



"...without thought" Naoto Fukasawa (MUJI) from Objectified



"A calm and considerate solution that speaks of how you are gonna use it, not the terrible struggle that we designers and engineers had" Jonathan Ive from Objectified



Increasingly immaterial culture \Rightarrow enormous conflict within design

Alice Rawsthorn (International Herald Tribune) from Objectified





"...why do we keep visiting archetypes again and again?"

Karim Rashid (New York) from Objectified





"...[companies] want more stuff and want more people to buy it"

Rob Walker (The New York Times Magazine) from Objectified



Good design should be innovative.

Good design should make a product useful.

Good design is aesthetic design.

Good design will make a product understandable.

Good design is honest.

Good design is unobtrusive.

Good design is long-lived.

Good design is consistent in every detail.

Good design is environmentally friendly.

Last but not least, good design is as little design as possible

Dieter Rams

Interviews with: BILL ATKINSON DURRELL BISHOP BRENDAN BOYLE

DENNIS BOYLE PAUL BRADLEY DUANE BRAY

SERGEY BRIN

STU CARD

CHRIS DOWNS

TONY DUNNE

JOHN ELLENBY

DOUG ENGELBART JANE FULTON SURI

BILL GAVER

BING GORDON

ROB HAITANI

JEFF HAWKINS

MAT HUNTER HIROSHI ISHII

BERT KEELY

DAVID KELLEY

BRENDA LAUREL

DAVID LIDDLE

LAVRANS LØVLIE

JOHN MAEDA

PAUL MERCER

TIM MOTT

JOY MOUNTFORD

TAKESHI NATSUNO

LARRY PAGE

MARK PODLASECK

FIONA RABY

CORDELL RATZLAFF

BEN REASON

JUN REKIMOTO

STEVE ROGERS

RIKAKO SAKAI

FRAN SAMALIONIS

LARRY TESLER

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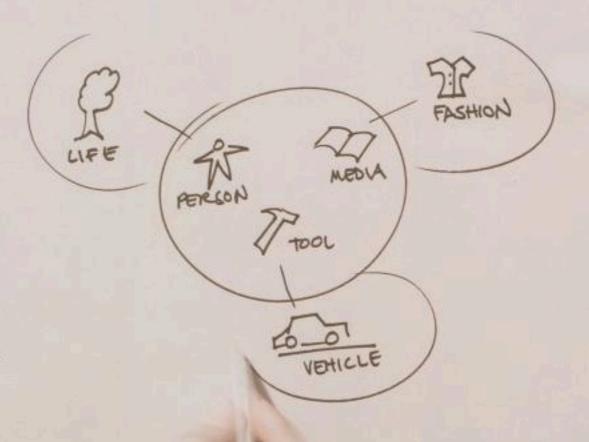
TERRY WINOGRAD

WILL WRIGHT





DESIGNING INTERACTIONS BILL MOGGRIDGE



Foreword by **GILLIAN CRAMPTON SMITH**

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