# 1.1. HUMAN COMPUTER INTERACTION by Scott Klemmer

YOU WILL GET WHAT YOU PUT IN THIS COURSE

SKETCHNOTES BY othenextmobile

THIS IS DESIGN, IMPLEMENTATION AND EVALUATION OF USER INTERFACES >

> IMPLEMENT. DESIGN

FOCUS ON PEOPLE



O ITERATE

FAIL FAST

EVALUATION

WERS ARE JUST ONE OF THE MANY STAKEHOLDERS IN THE DESIGN PROCESS

IN pesigning FOR PEOPLE DON'T FORGET OTHER PIECES OF THE PUZZLE

(development cost, support ... )

73600D

- · bring people joy
- · helps do things
- · helps to connect people that he care about
- · impact on society

BAD C design

· contr lives, money and time

Fixing these problems requires following just basic principles: like consistency and

causes problems & degrades people's quality of life

10 min of frustration 300,000,000

3 BIN person-min



## DESIGN FOR PEOPLE

· people's tanks goals and values drive development

· WORK with USERS throughout the process

assess decisions from the vantage point of wer, their work a environment

· pay attention to people's abilities and situation

· talk to the actual experts

**CP COURSERA** 

# 1.2 THE POWER OF PROTOTYPING

by Skott Klemmer

KODAK 1905

1080

early consumer digital camera

KODAC DCZIO

BIG COMPUTATION

BIGGEST CHANGES EARLY

(fonts, colors)

SE SKETCHAOTES BY

@4HE

NEXT MOBILE

DOSSIB ILITIES

broad I DEAS

IDEA THAT YOU SHOULD GET OUT OF THIS CLASS

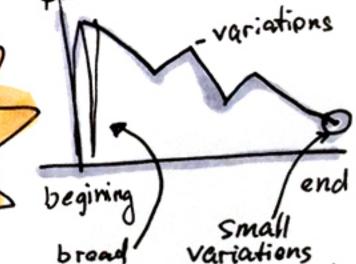
FEEDBACK

COAL

PROTOTYPES ARE

OUGHT TO BE

INCOMPLETE



PROTOTYPING IS A TREMENDOUSLY

VALUABLE STRATEGY

FOR EFFECTIVE

DESIGN

IS A STRATEGY FOR EFFICIENTLY PEALING WITH THINGS THAT ARE HARD TO PREDICT

FORM FACTOR !!

\**\** Crazy' JEFF DALM HAWKINS

DILOT'S PROCESS

• takina notes

checking calendar

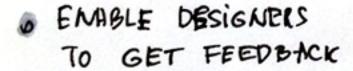


block of wood ?!

FEBL

· WHAT'T MICKT

LOOK LIKE

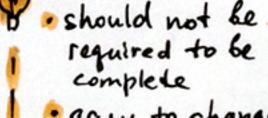


- ENBODY DESIGN HYPOTHE SES
- BY TRYING THINGS OUT and LEARNING YOU ARE ABLE TO IMPROVE

Known unknowns



UNKNOWN UNKNOWNS



- · easy to change
- · gets to retire



. WHAT IT MIGHT WORK LIKE

RO LE

WHAT EXPERIENCE



WALTER DORWIN TEAGUE

BOEING IMERIOR PROTOT.



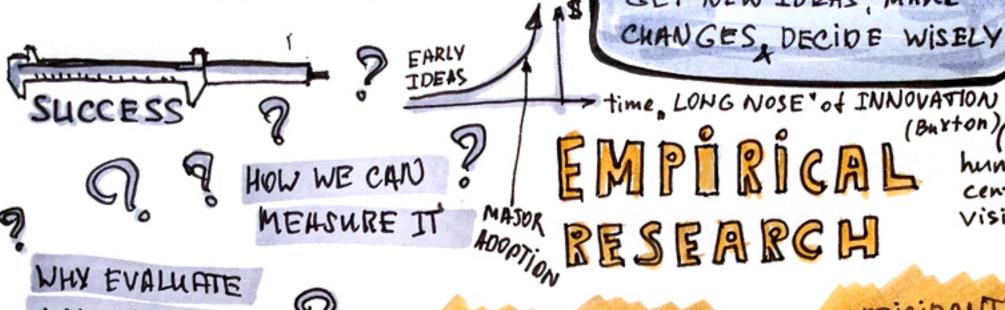
## 13 EVALUATING DESIGN by Scott Klemmer.

THE INSIGHTS THAT YOU WILL GET PROM TESTING DESIGN CAN HELP TO GET NEW IDEAS, MAKE

1.4 THE & thorest mobile BIRTH OF HCI

JULY 1945, VANNEVAR BUSH CHANGES, DECIDE WISELY

u As we may think , Atlantic monthly



centered vision

# MEMEN ACTIVE DESK

oinformation storage & retrieval

tech. could CADTURE wrote how augment STUFF numan intellect





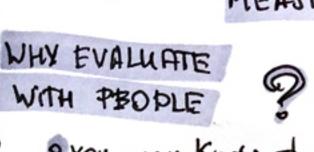
MIT A TUNN SUTHERLAND

GUI, PERFORMED ON
TOP OF THE OUTPUT

THE MOUSE & HYDERTEXI (radar tech) 1968

ALAN KAY -> STANFORDS

SUI, icon STAR JUNABOOK TO STAR TO STA



- You may Know to much about UI
- you may acquire blindence through designing 42



USABILITY STUDY

tasks, goals, motivations

in the real world ppl may have different

(=) , please me bias

## SURVEY & FOCUS GROUPS

- Equickly to get feedback from the large # of people
- difference between what people say & What they do
- ppl inclined to say

o heuristics evaluations

# COMPARATIVE EXPERIM.

### SIMULATION & FORMAL MODELS

\*ASSUMPTION => results (theory & predictions)

PARTICIPANTS

actual work

# gaining insights

OBSERVATION

environment

by discovering

people's actual

practicer

alternatives Monte Catlo optimisat.

(shape writer system, Shuman Zhai) Pete Pirolli at PARC

· actual behaviour

polite things

FEEDBACK FROM EXPERTS