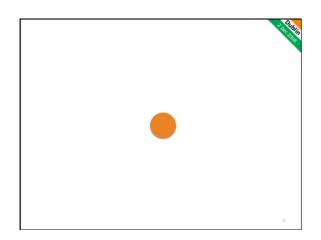
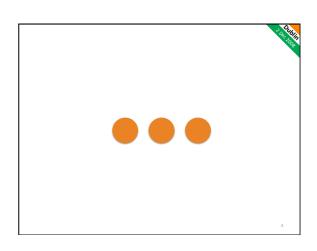


wot I'll say

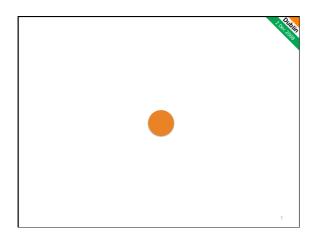
"state of the nation"
where is HCI
how can it develop
bit of my own stuff
and how they fit together











21 years ago at Interact '87

Brian Shackel asked is HCI a discipline?

yes!

a community defines a discipline

but science goes beyond community or academic discipline

from acceptance of knowledge to assurance of truth

(c.f. John Long craft, engineering or science)

are we getting there?

2nd generation HCI researchers, teachers & practitioners

good for community ...

but maybe loosing disciplinary roots have we found our own?

strength of HCI research and practice close

danger

we confuse the two

evident in papers, reviews etc.

three challenges to develop the academic discipline of HCI

methodology

knowledge

rôles

three challenges to develop the academic discipline of HCI

methodology

knowledge

rôles

new roots need new methods

need to think methodologically

not just adopting methods but understanding why but it is hard!

a little story ...

- BIG ACM sponsored conference
- 'good' empirical paper
- looking at collaborative support for a task X
- three pieces of software:
 - A domain specific software, synchronous
 - B generic software, synchronous
 - C generic software, asynchronous



experiment



- reasonable nos. subjects in each condition
- · quality measures
- significant results p<0.05
 - domain spec. > generic
 - asynchronous > synchronous





• so really want asynchronous domain specific

what's wrong with that?

interaction effects

- gap is interesting to study
- not necessarily good to implement



more important ...

if you blinked at the wrong moment ..

NOT independent variables

- three different pieces of software
- generic domain spec.
- sync async

 B < C
- like experiment on 3 people!say system B was just bad

can we fix it?

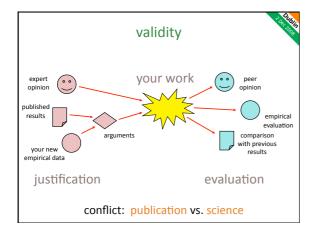
- · borrowed psych method
 - ... but method embodies assumptions
 - single simple cause, controlled environment
- HCI needs ecologically valid exp.
 - multiple causes, open situations
- what to do?
 - understand assumptions and modify
- · both and ...
 - quantitative what is true end to end phenomena
 - qualitative and anecdotal why mechanism

three challenges to develop the academic discipline of HCI

methodology

knowledge

rôles



three challenges to develop the academic discipline of HCI

methodology

knowledge

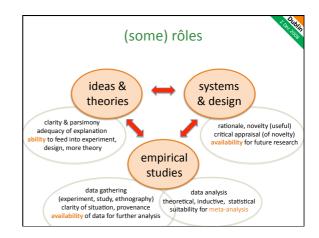
rôles

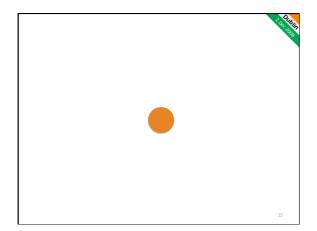
HCI is a diverse discipline

different genres of work
need different criteria of judgment

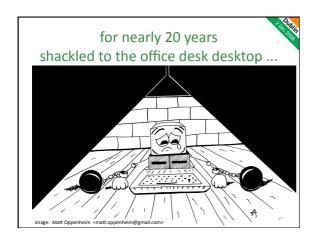
✓ recent CHI sub-committees

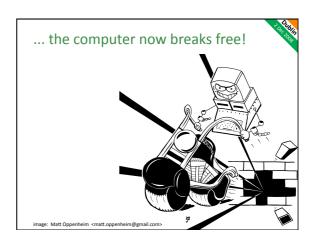
different rôles for people
we don't all need to do everything

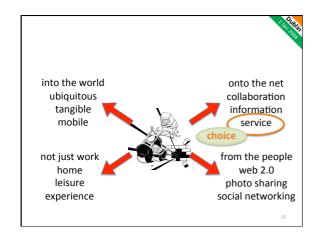


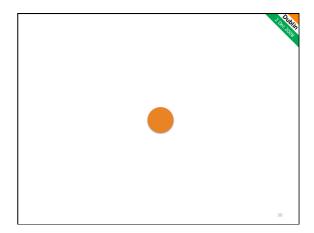












PhD student, Fariza Hanis Abdul Razak looking at mobile experience

initial study – one user was 'odd' ... so looked further at just her

learning from the extremes

studying a single person ... initial diary study

the first text ...

Dear God Don't need lots of frens! As long as real ones stay with me, so bless them all, especially the sweetest one reading this.

and subject's comment:

this SMS MADE MY DAY!

John Rooksby: messages that need no reply

changed our view of use of mobile

research

- very rich empirical data reveals new issues using personal understanding
- novelty only needs one example (e.g. new species)
 different person different place would find different phenomena
 equally explorer in different place would find different species
- generalisation through reasoning
 abduction and deduction rather than induction

generalisation

never comes (solely) from data always through understanding

design & practice

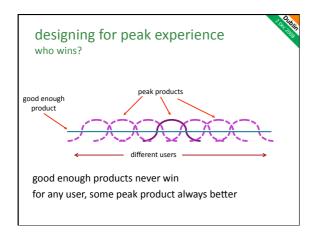
design for a single person not even five users!

get to know him/her intimately what would be perfect for that person

designing for peak experience ...

baked bean vs. mars bar design





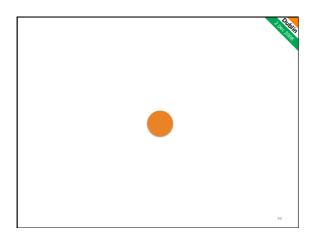
designing for peak experience

how to do it:

- traditional interface design user profiles, central personas, average and typical, process and methods, from need to solution
- design for peak experience individual user, niches, extreme personas, specific and eclectic ideas and inspiration, from concept to use

when to do it:

 individual choice, user experience, the long tail: many applications for smaller groups



single person study flouting community conventions but understanding methodology

prompted by changes in HCI what is the same and what changes

the lens of unfamiliarity helps us explore the heart

