

CHI2017 Workshop Sunday 7th May 2017



Outline

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09:00 Welcome and Introductions
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10:00 Focus Session 1: Values Findings

11:00 – 11.15 Coffee Break

11:15 Focus Session 2: Values Ensembles

12:15 Quick Synopsis: Emerging Themes

12:30 – 14.00 Lunch Break

14:00 Focus Session 3: Values in Action

15.00 – 15.15 Coffee Break

15:15 Synopsis and Discussion

16:00 – 16.15 Break

16:15 The Denver Manifesto & Dissemination Plans

17:00 End

long lunch => we went straight
to Synopsis & the Manifesto



Introductions!

(4 + 1 min)

- M. Brandão
- I. Johnson
- M. Van Mechelen
- S. Dodier-Lazaro
- A. Dix
 - Quote Summary

B. Towne <= =>

<= =>

<= =>

<= =>

<= =>

Future work

Team VIC

C. Sas

G. Cockton

C. De Souza



Values Survey Findings (N=151)

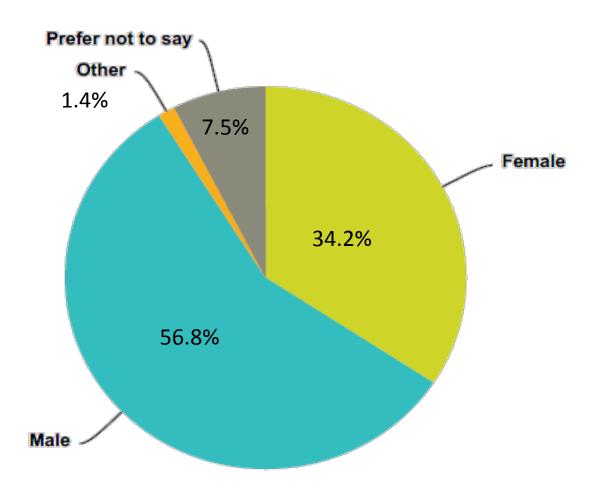
http://www.valuesincomputing.org/survey/

- Open text (Q3, Q5, Q6) analysis
- Crowd sourced
- Automated

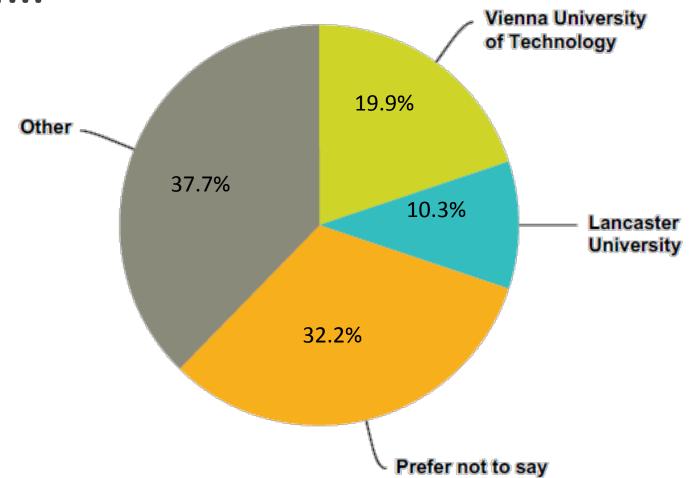
Tick Boxes (Q2, Q4)

Descriptive stats

I am...



From...



Summary

Q3 DO VALUES SHAPE TECH?

44 responses

- Importance and Influence of values in decision making processes
- Prioritization
- Examples(e.g.; i.e.)
- Reflexivity /Awareness (Lack of)

92% agree {53.6% very much, 38.4% somehow}

Q5 ORG's VALUES MATCH

37 responses

- Ranking, Prestige, Respect, Success
- Financial, Funding,

Q6 MOTIVATION TO PUBLISH

117 responses (open text only)

- Recognition / Community feedback
- Sharing / Mutual learning
- A career necessity / Sense of obligation.
- Ranking / Performance / Recognition

67.5% agree {9.9% very well, 57.6% somehow}

Open Text: First Cut

"Crowd" - Sourced*

Q3: What and Why

Automated Analysis

• Q3, Q5, Q6 Word Frequencies; SemTags

* we asked the rest of workshop organisers to pick the quotes that they found most poignant and tell us why.

Crowd-Sourced

"Assumes belief in the possibility of a causal relation either way. There's no checkbox to say that you think the question itself is problematic conceptually. i.e., it's the *wrong* question to be asking - we can endlessly search for causes if we want to but that doesn't necessarily help us understand the ways in which people make sense of technology

Because it raises a deeper question about what question we should be asking about this and if and how values-in-design & sense making-in-use relate to each other

"My first response was yes. However, if we think about some of the actions of companies like Uber and the values they represent, compared to the values of the people who create those technologies then I wonder if the answer is no"

Because it raises the questions of whose values count, influence etc ... here between the companies and the developers/employees... raises lots of possibilities for discussions about relative power to influence/shape etc.

Crowd-Sourced

- "But rarely knowingly so, especially in technology design. Some other areas of design have more self awareness, explicit strategy and critical reflection

 Because it points to the issue of there always being some shaping role but the issues of not being (not being taught to be) reflexive as s/w developers (lots of answers reflect this point)
- "Engineers are not taught to be reflexive in understanding the context of their own worldviews and cultural hegemonies."
 - Because this was one of the things we tried to achieve in the software design studio (cf. Schon's reflective practitioner). Very much relates to our ideas on values-based SE.
- "Do the values that designers at Uber talk about holding at dinner parties align with those that drive the company they work for?"

Because again, this relates to our values-based SE work -- tracing values down from organisational mission statement to lines of code

Automated

- Wmatrix corpus analysis and comparison tool
- a web interface to the English USAS and CLAWS corpus annotation tools
 - standard corpus linguistic methodologies such as frequency lists and concordances
- USAS: U Semantic Analysis System;
- CLAWS: Part-of-Speech (POS) tagger for English

http://ucrel.lancs.ac.uk/wmatrix/

Q3: WF

Values Shape Tech vs Spoken English

"<u>i.e.</u> socio-technological systems don't necessary remain static in their use"

"Yes, particularly the <u>decisions</u> about what kind of concepts to design and for what purposes"

"Explicit strategy and <u>critical reflection</u>, <u>e.g.</u> design for sustainability, diversity, inclusiveness"

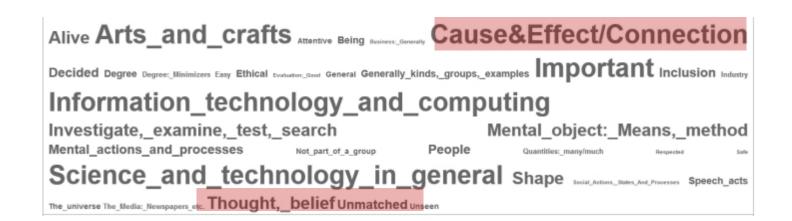


Q3: ST Values Shape Tech vs Spoken English

"Engineers are not taught to be <u>reflexive</u> in understanding the context of their own worldviews and cultural hegemonies"

"Even one has values i.e., reasons and priorities for what catches their interest"

"Values influence the problems we choose to address, how we address them, and where"



Q6: WF

Motivation to Publish vs Spoken English

(sorted on log-likelihood (LL) value threshold = 6.35; freq = 5)

"Recognition, but <u>not simply for prestige</u> but for <u>discussing</u> my ideas"

"Being part of the <u>conversation</u>, <u>sharing</u> my knowledge, getting <u>recognition</u>, not losing my job".

's also am and as audience but by career colleagues Community conferences do feedback field for from get getting help ideas impact improve in_order_to international it job knowledge learn make means meet meeting more my of other others part people publish recognition research results share sharing students system that their there they to used value we what with work world you

Values Ranking

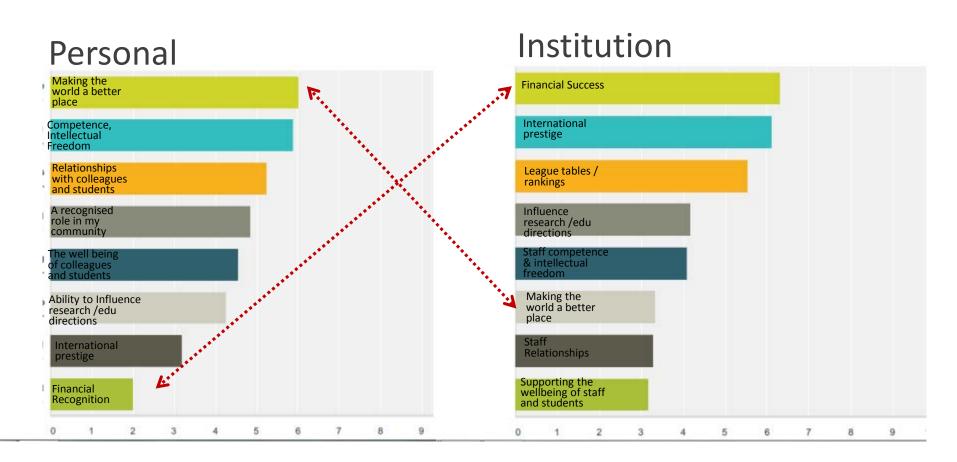
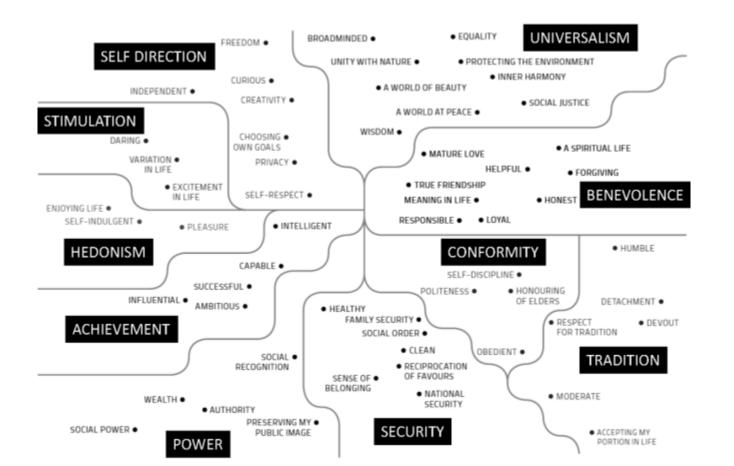


Figure from:

Values Structures (Schwartz '92)



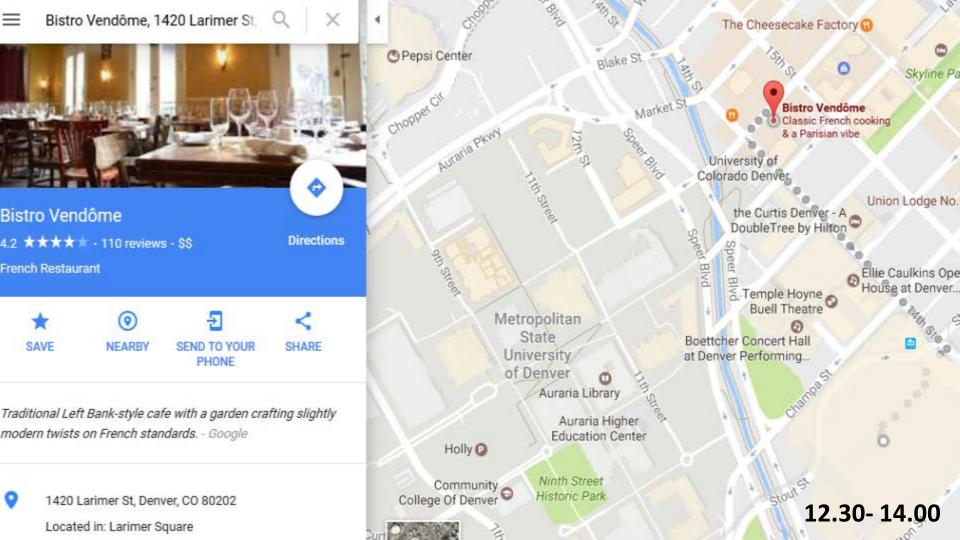
Discussion points

- Burning questions / observations
- Data sharing for different data visualisations / analysis / approaches

{BREAK}







Denver Manifesto & Next

15:15 – 16:00 Synopsis & Discussion

Denver Manifesto First draft

16.00 – 16.15 Break

