

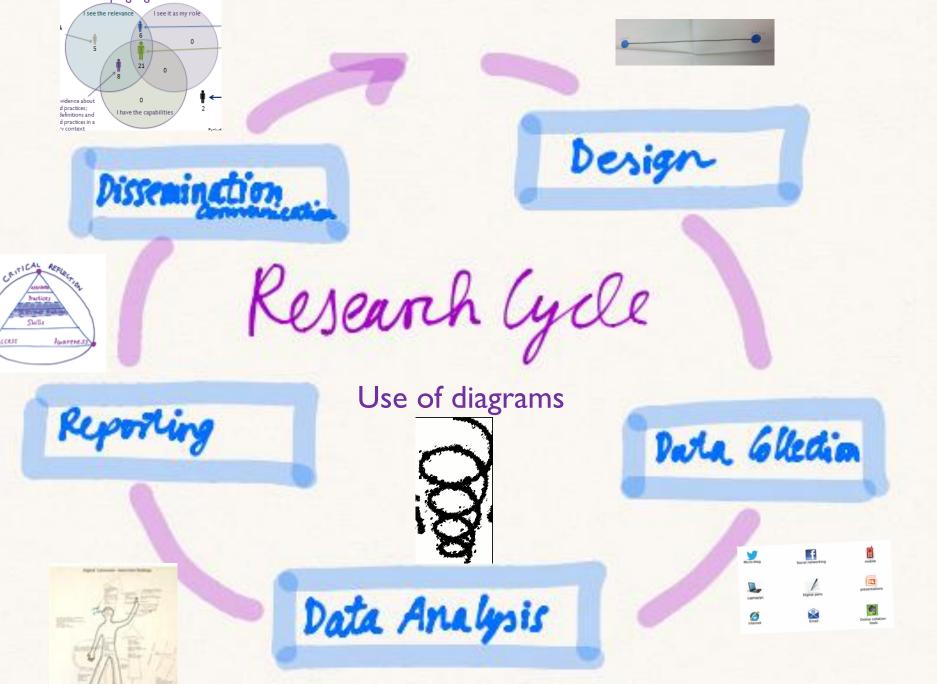




Diagrams to discourse and discourse to diagrams: uses of visual representation in qualitative research to support staff development of digital literacies

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University of Liverpool
Research funded by SEDA Small Grants





During this session:

• Are diagrams (or other visual representations) viable tools to use in your own practice?

 What are the merits and limitations of visual approaches in supporting your critical reflection on your own perceptions and practices? Background



 SEDA small grants research funding

Full report available:



'Digital Literacies:
A Study of Perspectives and Practices
of Academic Staff'

Powell&Varga-Atkins

15 Nov 2013 SEDA

What was done?

Explored academic staff's:

- practices in digital literacies,

staff interviews and surveys

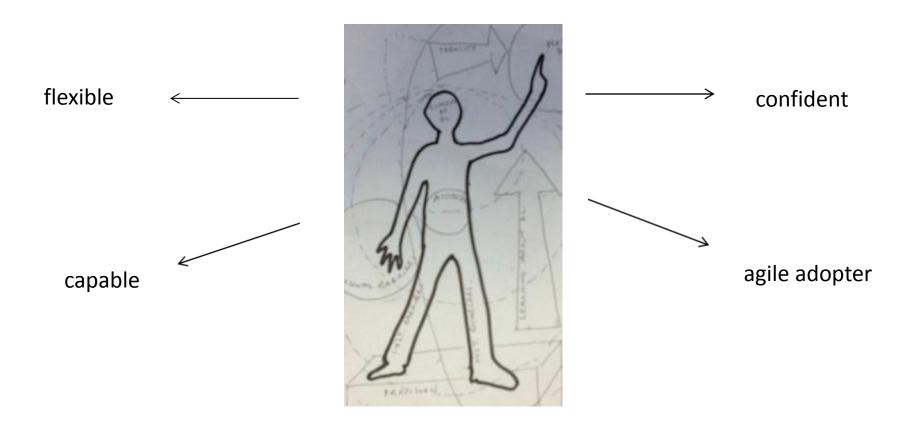
- perspectives of those practices
 within a discipline specific context.
- individual and institutional enablers and constraints
- explored the role of critical reflection in relation to developing digital literacies.

Why was it done?

- To understand:
 - how digital practices emerge;
 - to understand what staff are already doing;
 - to find out what the university could do to help support staff in enhancing students' development of digital literacies.
 - the role of critical reflection in the development of digital literacies
- To promote the digital literacies agenda and improve the student experience

Defining digital literacies

functional competence (externus) and capability (internus)



critically reflective

Why visuals (diagrams)?

The value of diagrams

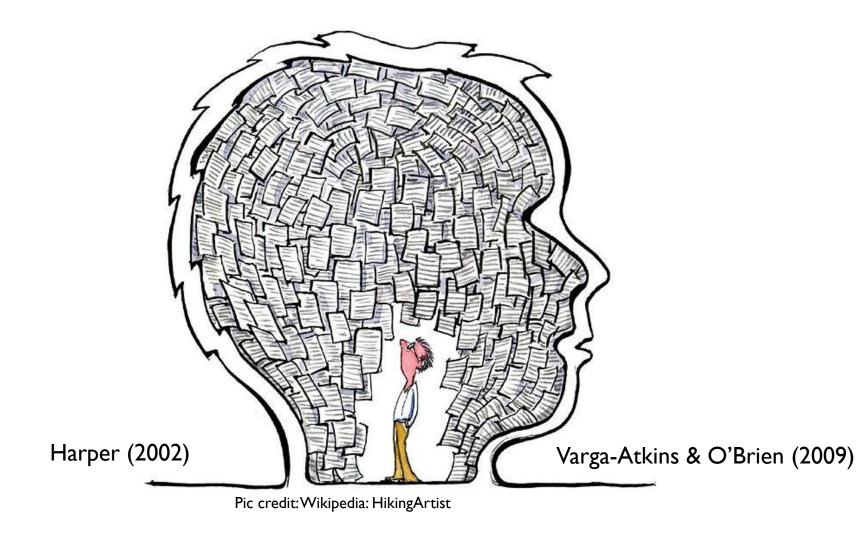


http://cas.uchicago.edu/workshops/earlymodernphil/files/2013/04/descartesoptics.jpg

"A diagram is a visual representation that shares the properties of written **text** and representational **images**, but cannot be reduced to either"

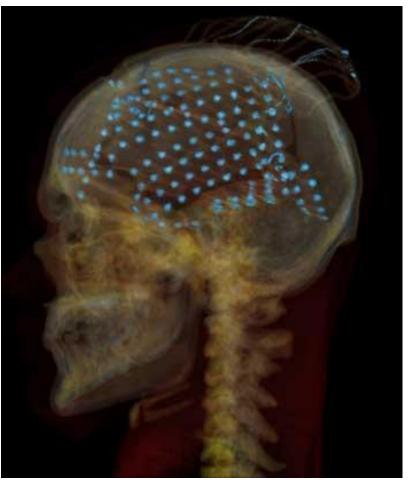
(Blackwell, 2001, p.1).

Not just 1000 words: new insights



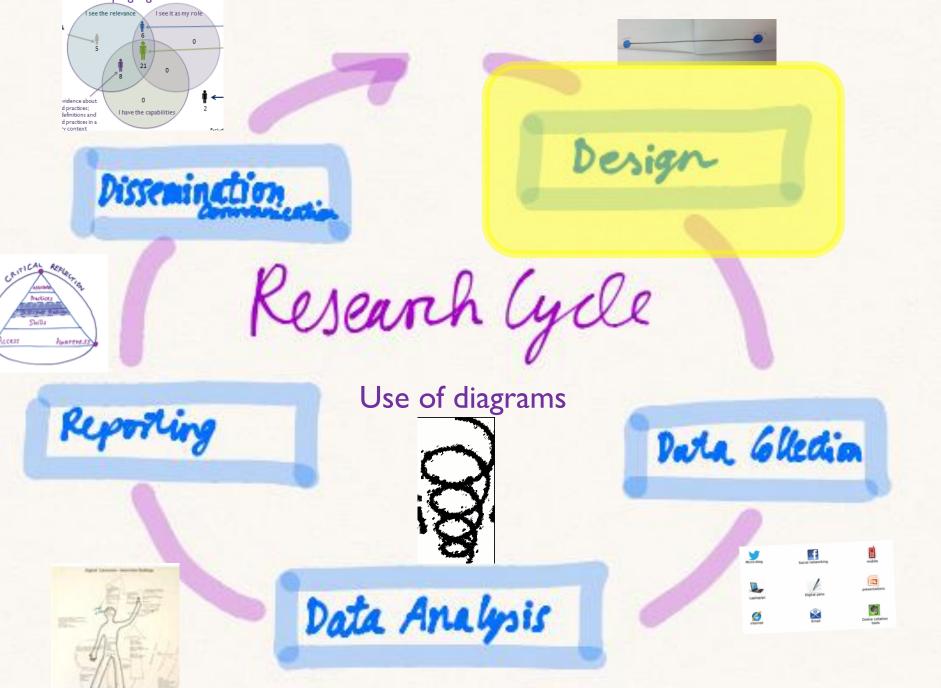
Mmm, useful

...visual modalities, unbound by the linearity of text (Land, 2011), are especially suited to explore both self-perception and practices, whilst depicting the multimodal, multi-directional complexities of those practices in context of developing digital literacies.

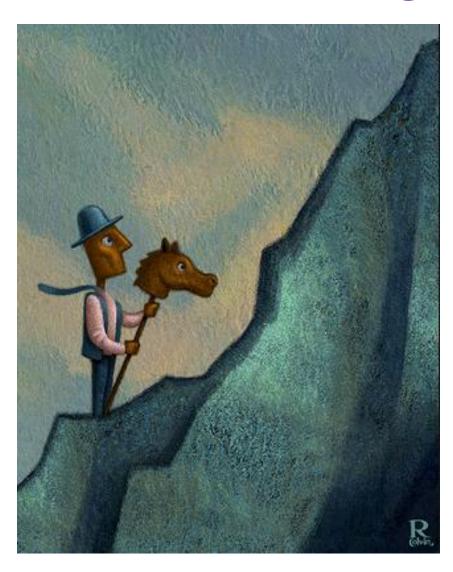


Credit: Adeen Flinker, UC Berkeley

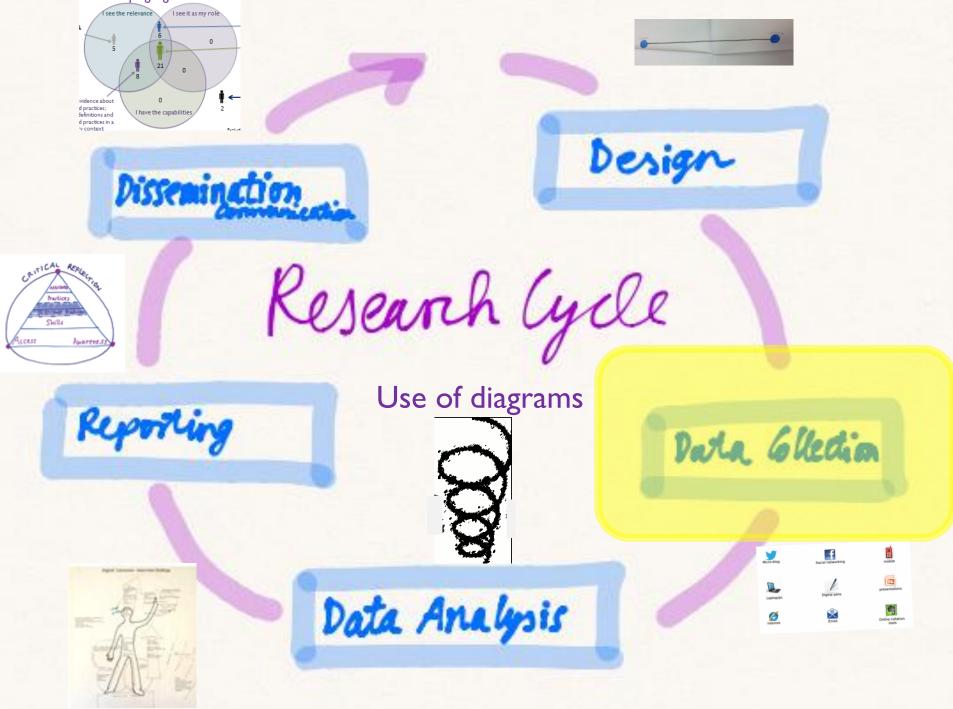
Let us take you through each stage in our research cycle



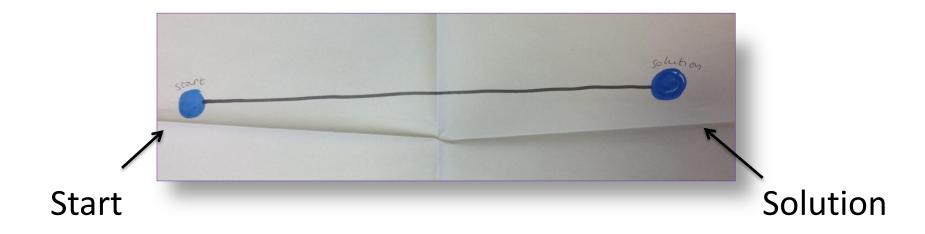
The big challenge



- Not to pre-empt responses
- We wanted participants to volunteer where they engaged with technology



Participatory diagramming (a "rebus")



We posed a learning and teaching 'problem' and asked staff to chart the their approaches and activities to reach a solution

Challenges: varying comfort levels and a feeling of being "under prepared" (Umoquit et al 2008).

Paired Activity Administration Curriculum Preparation design (including resources) You Tube Assessment Learning and Teaching and feedback Video sharing Knowledge development Podcasts Collaboration Research and online scholarship conferencing Evaluation

Slide sharing

Bib/ref tools

Paired Activity. Take 2-3 stickers. Interview your pair about their use of these selected technologies.

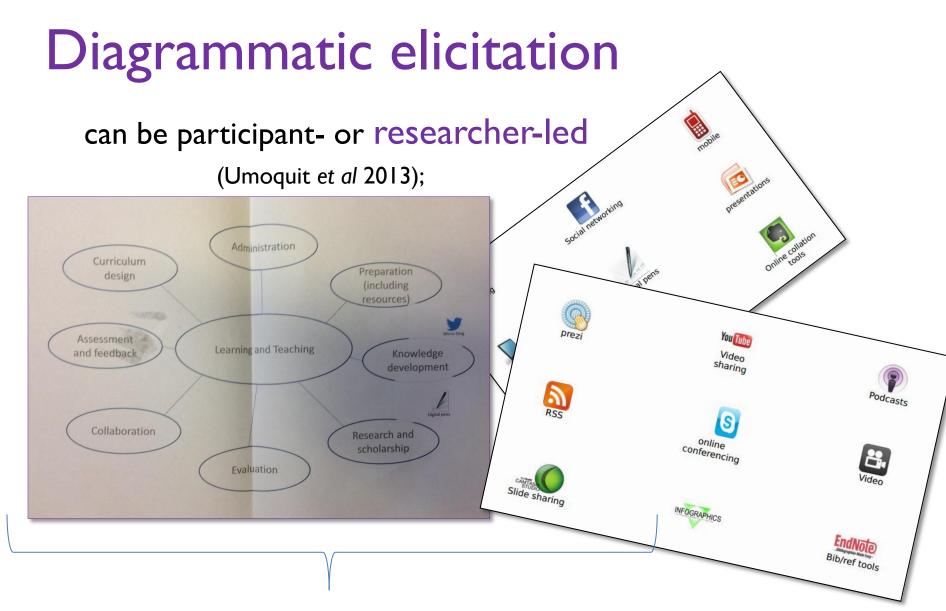
When do you use these technologies and how?

Observe the questions below and be ready to feed back about your experience as interviewer/interviewee.

Interviewer

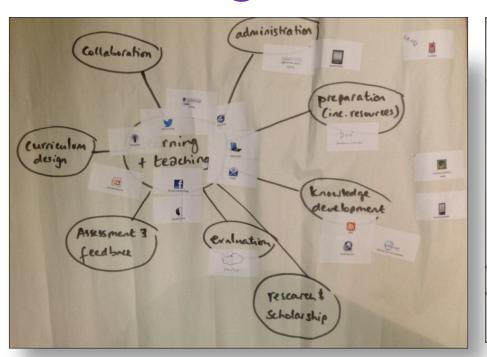
How helpful is the visual task in getting your 'data'? To what extent is the structure offered by the diagram help or hinder?

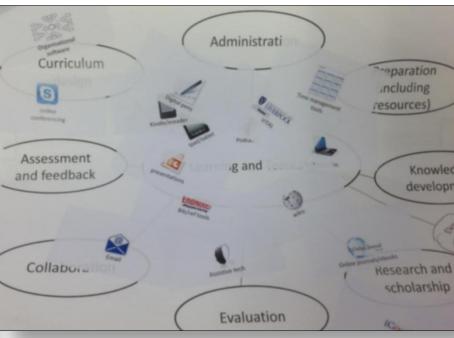
Interviewee
How helpful is the visual task in helping you formulate your thinking?
To what extent is the structure offered by the diagram help or hinder?



= A more realistic representation of academic staff's range of digital practices

Diagrams to elicit discourse

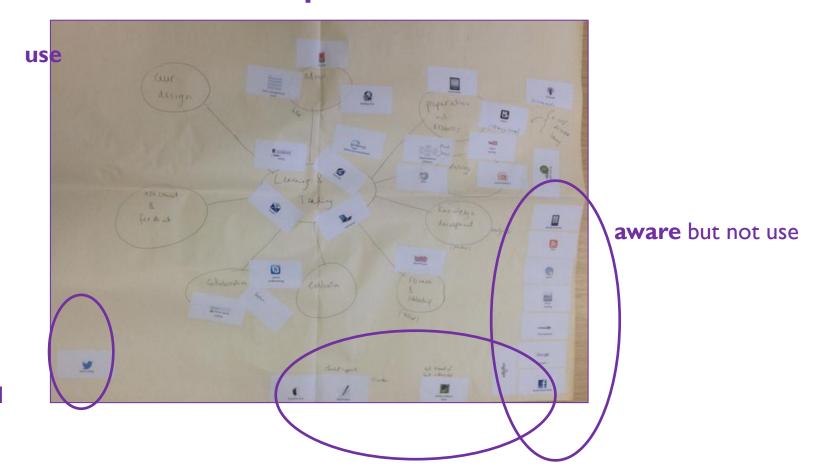




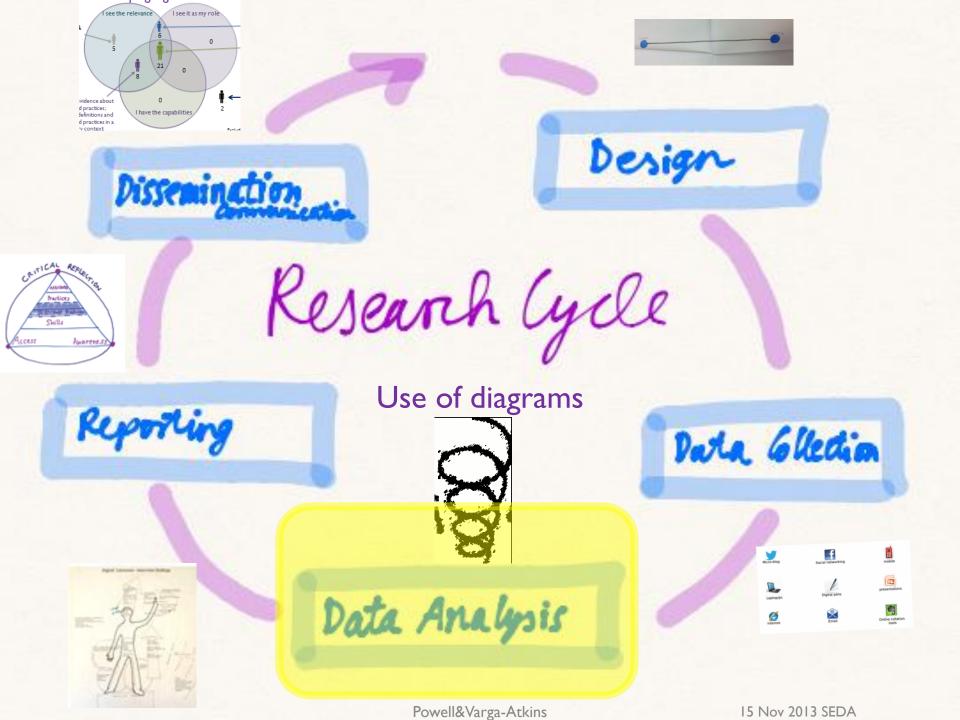
Triggers: Visuals/diagrams can elicit ideas that may otherwise remain unarticulated and promote general discussion.

(Gaskell, 2000 in Crilly et al 2006)

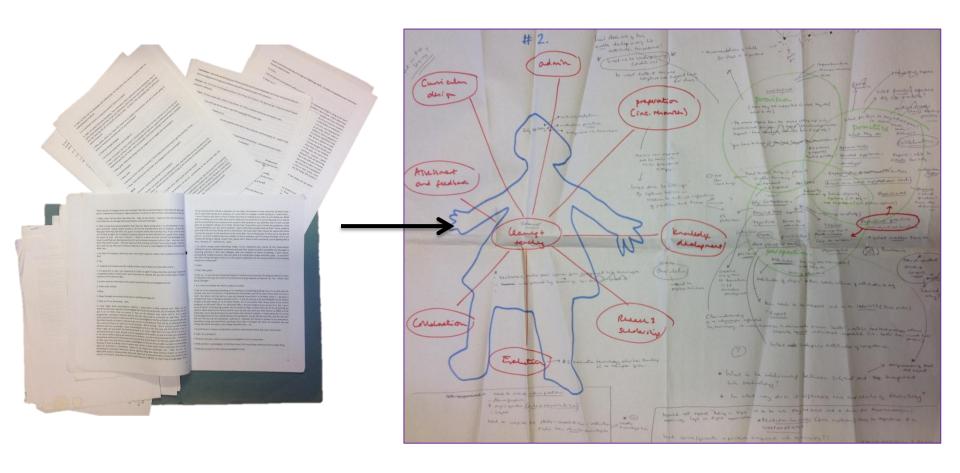
Dilemma of Diagramming: balance between openness and structure



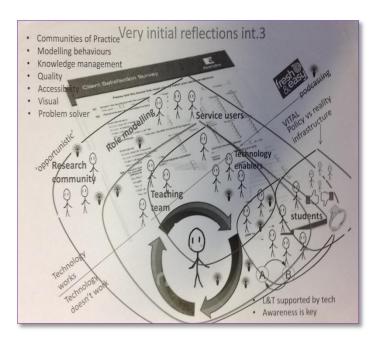
tried and rejected

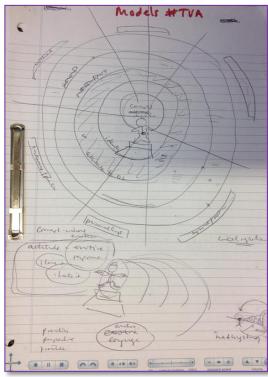


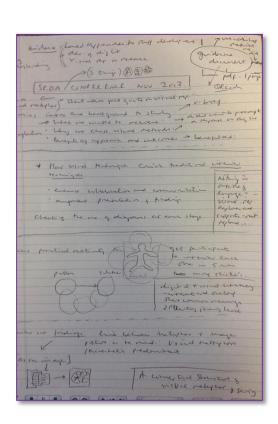
Using diagrams to interrogate discourse



Diagrams for analysis and discussion

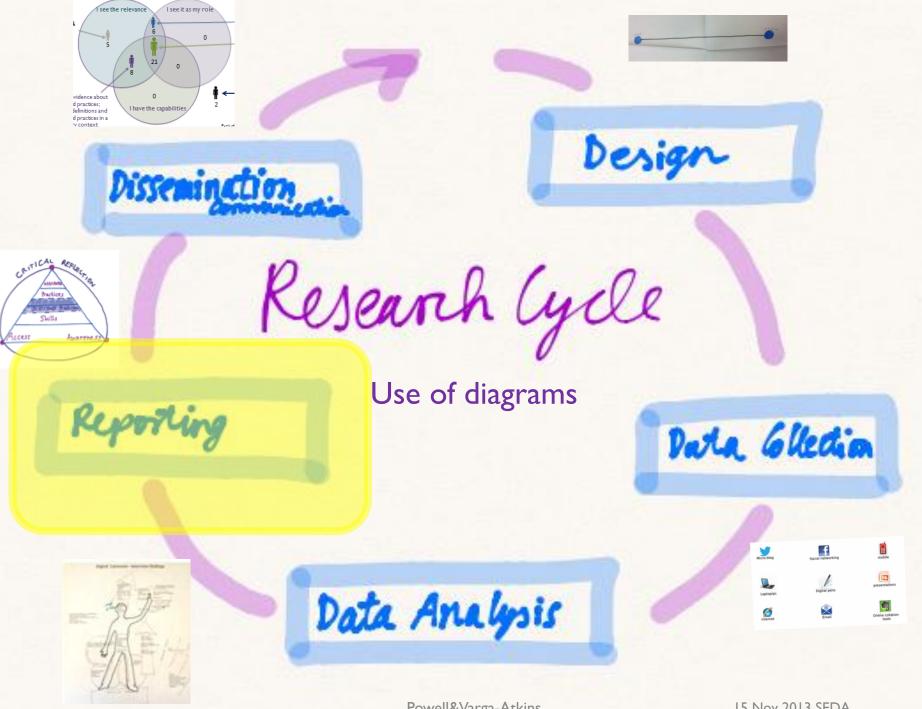






Initial reflections on data analysis

Diagrammatic discussions

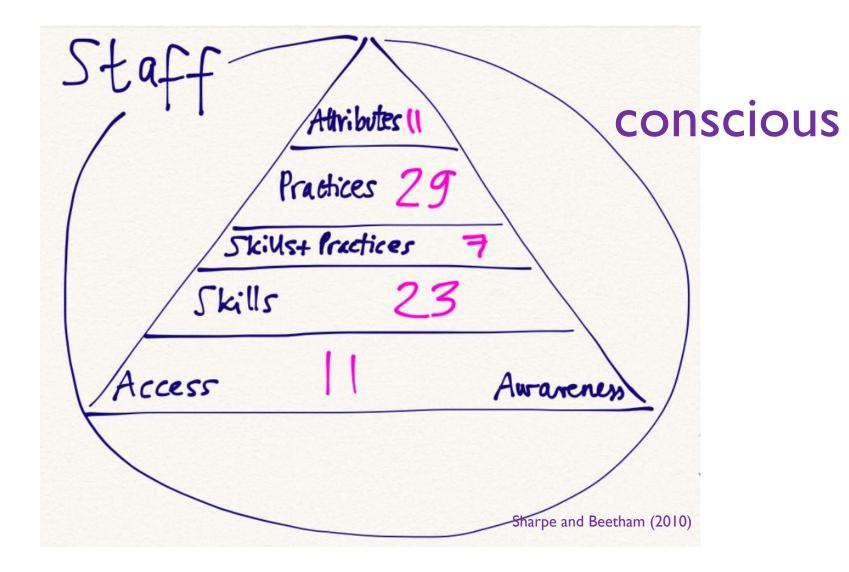


From analysis moving to reporting findings

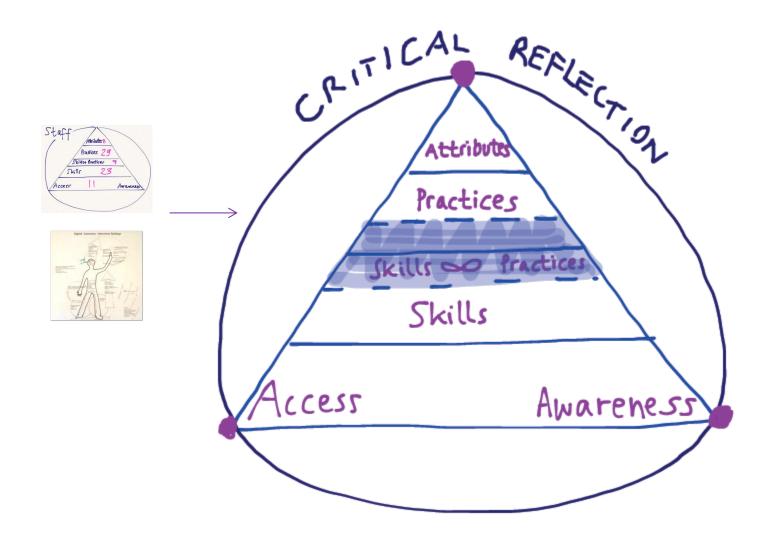
Digital Literacies - interview findings The resulting industrial allows by mustake ou a recording with southern threshold Creens, buy motivator profile eneralistic degette technology and to pound neted exemples of thelered erboling specific identity or referr Naukiwa nend to owersil the principles Telgi reparate those Safficition revalen." pery soul Sees so its control y intellings, 65hs INSTRUMENT STATE and how groups to be want sp will sot of most recharding its are underginated by complex range of monvations emergent the more mudicalisas problems the deeper the drive to improve key explicit purpose is essential LEARPHER el carrieg set an ability to refle action a moderator and sales criticis 'kniep a check on that' ancenera resilience profilerous for teaching. common that digitally literal flexibility Scorps one thirding about spreatimustions of technology drive to improve of the bless." need understand. (lennithmique) "getting ideas from others principles that is the main thing. Virtual space aboutoal aparer 'prichiom' barriers for students. systems VITAL. mediamittarin digitally literate are 'scarred in tech failure both very

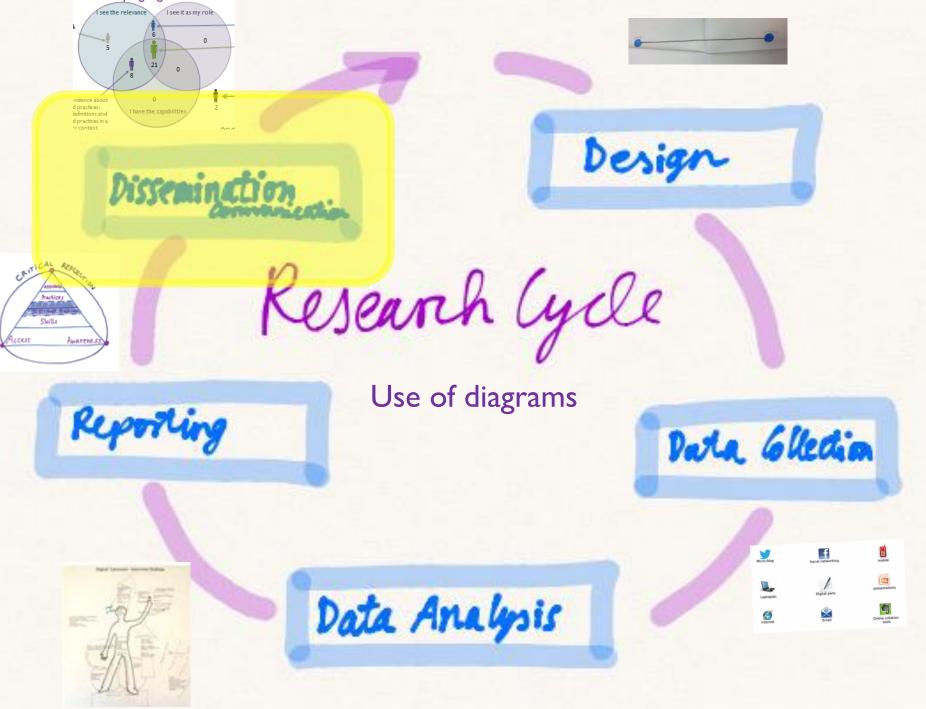
spirit ensiste our and makintalig

and more diagrams...



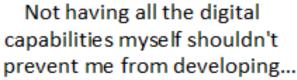
... leading to framework development





Dissemination – from charts to ...

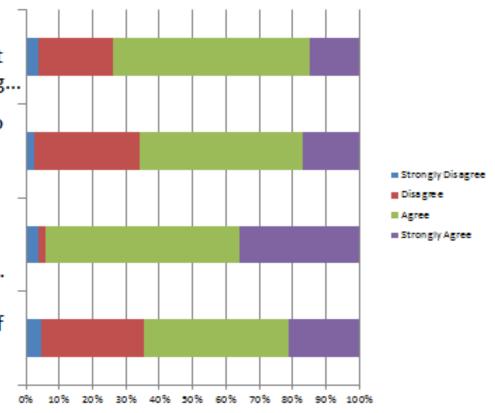
Perspective on developing digital literacies of students



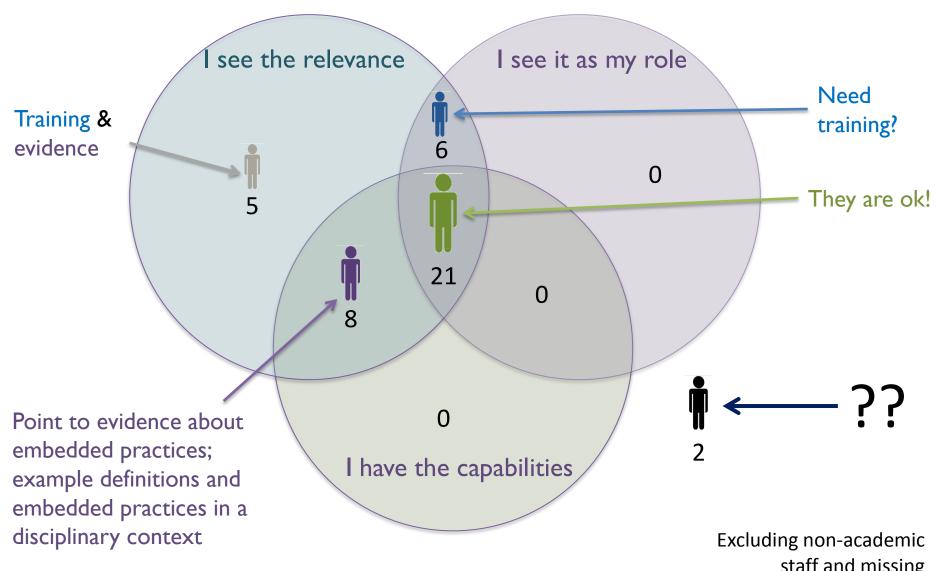
Overall, I have the capabilities to develop my students' digital literacies.

I see the relevance of developing students' digital literacies in my discipline (or professional context).

I see developing digital literacies of students as my role.



to ...infographics



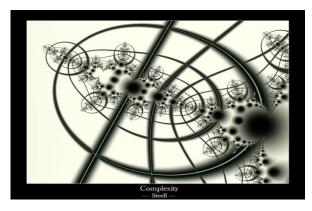
Powell&Varga-Atkins

staff and missing responses, n=54

Reflecting on our use of visuals, they were:



conscious



necessary



natural



emergent

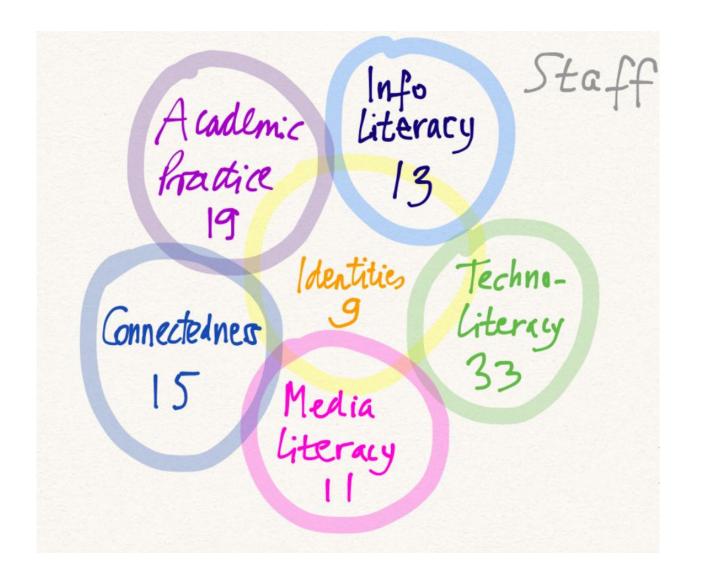
Discussion

- Can diagrams (or other visual representations) be suitable tools to use in your own practice?
- What are the merits and limitations of visual approaches in supporting your critical reflection on your own perceptions and practices?

Conclusion



Graphic > < Digital



References

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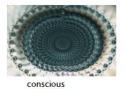
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Varga-Atkins, T and **O'Brien** M. (2009) <u>From drawings to diagrams: maintaining researcher control during graphic elicitation in qualitative interviews.</u> *International Journal of Research and Method in Education*, vol. 32(1), April, 53-67

Image credits





natura





Emergent = waves by Reza Ali -http://www.syedrezaali.com/blog/?p=1214

- Natural = a forest = http://www.layoutsparks.com/1/213309/green-forest-natural-road.html
- Conscious: "The mind of Mr Soames"
 http://controlv.deviantart.com/art/The-Mind-of-Mr-Soames-268423113
- Necessary: fractal art http://steell.deviantart.com/art/Complexity-18857076

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