

Technological distance

A new way of conceptualizing the "distance" in

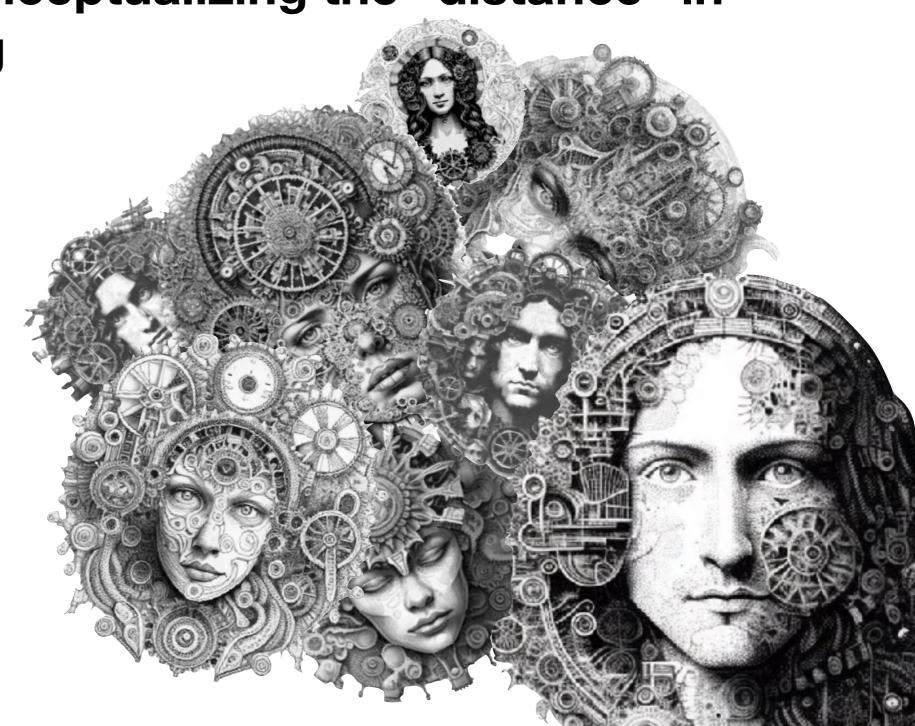
distance learning

Jon Dron, June 2, 2023









Many concepts of distance

physical distance: in-person <-> not

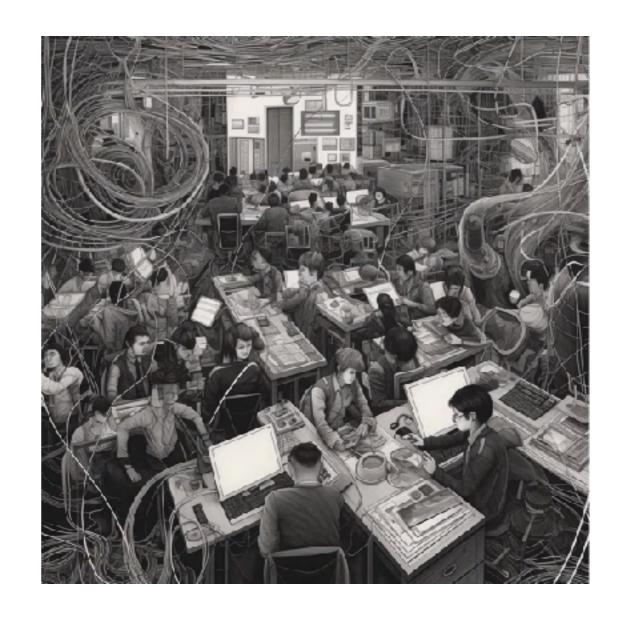
transactional distance: high structure <-> high dialogue

Community of Inquiry

teaching presence <-> teaching distance
cognitive presence <-> cognitive distance
social presence <-> social distance
emotional presence <-> emotional distance
agency presence <-> agency distance

temporal distance: synchronous <-> asynchronous

"Distance" in its conventional sense, as a gap between learners and their teachers and/or fellow learners, is rarely a useful concept. There are too many distances.





Technology

The organization of stuff to do stuff.

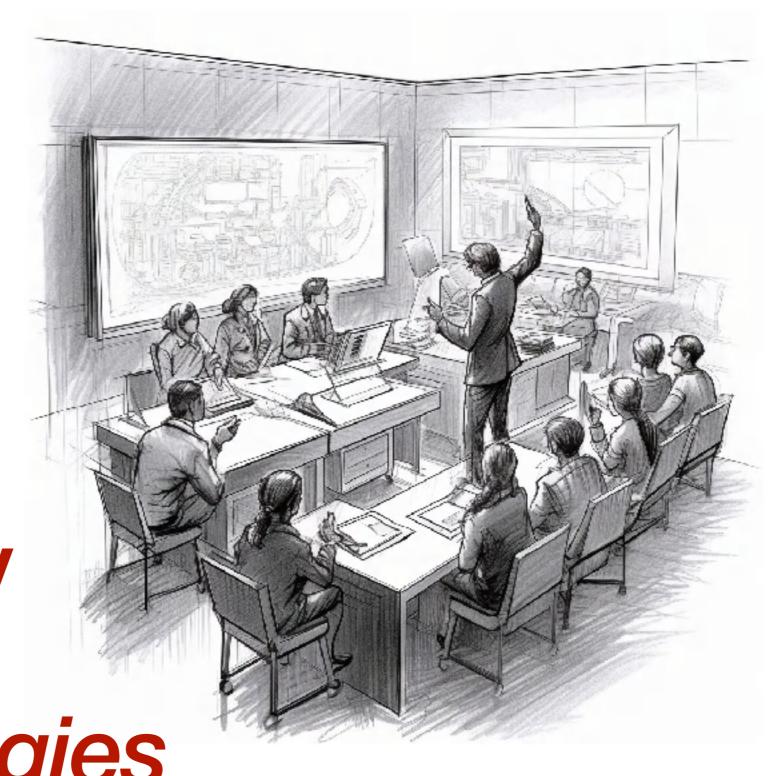


Any stuff

Including other stuff that is organized to do stuff



language, poetry, and pedagogies (methods of teaching) are technologies, too



Let's play Spot the Technologies



cognitive gadgets

Some technologies are parts of us

techniques

We are parts of most technologies





Techniques are technologies enacted by people



Hard technique
we play our part
correctly in the stuff
that is organized

collective intelligence



Through technologies, we participate in the minds of others

Through education we learn to participate in the technologies of our culture



Hard learning

the act of organizing the stuff; of assembling new techniques with those we possess to make new cognitive gadgets

Soft learning

what we do with those cognitive gadgets; the idiosyncratic stuff; the stuff that really matters

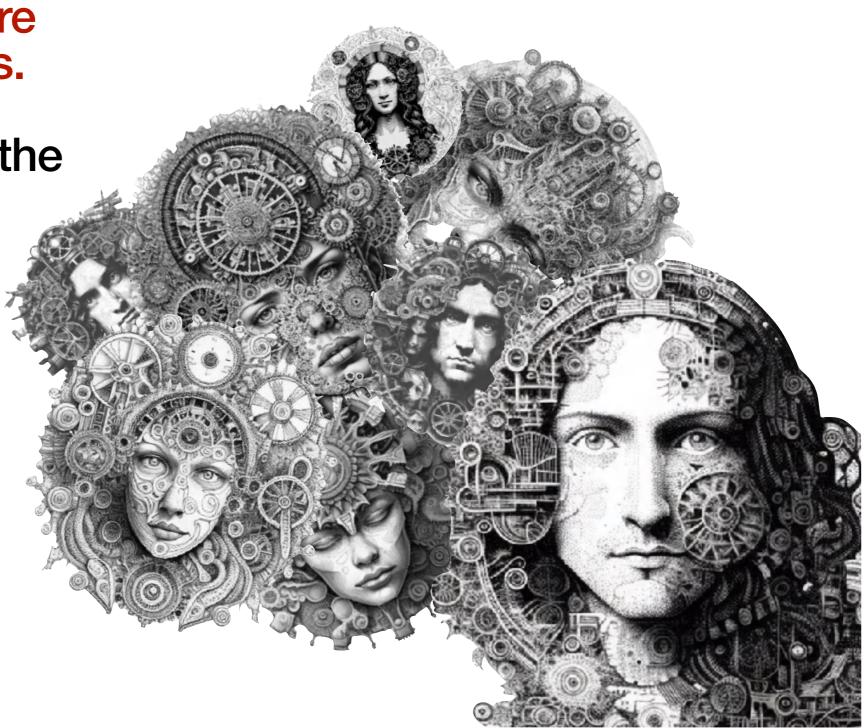


the collective teacher

Designated teachers are never the only teachers.

They are seldom even the

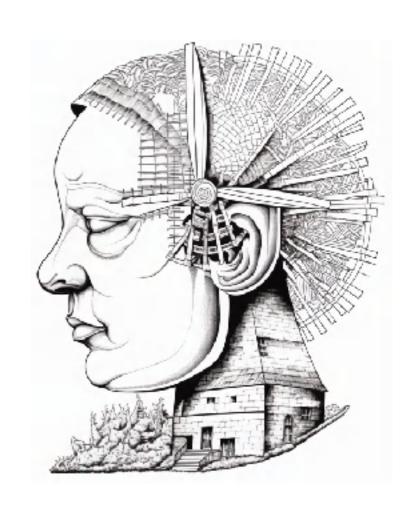
most important ones.



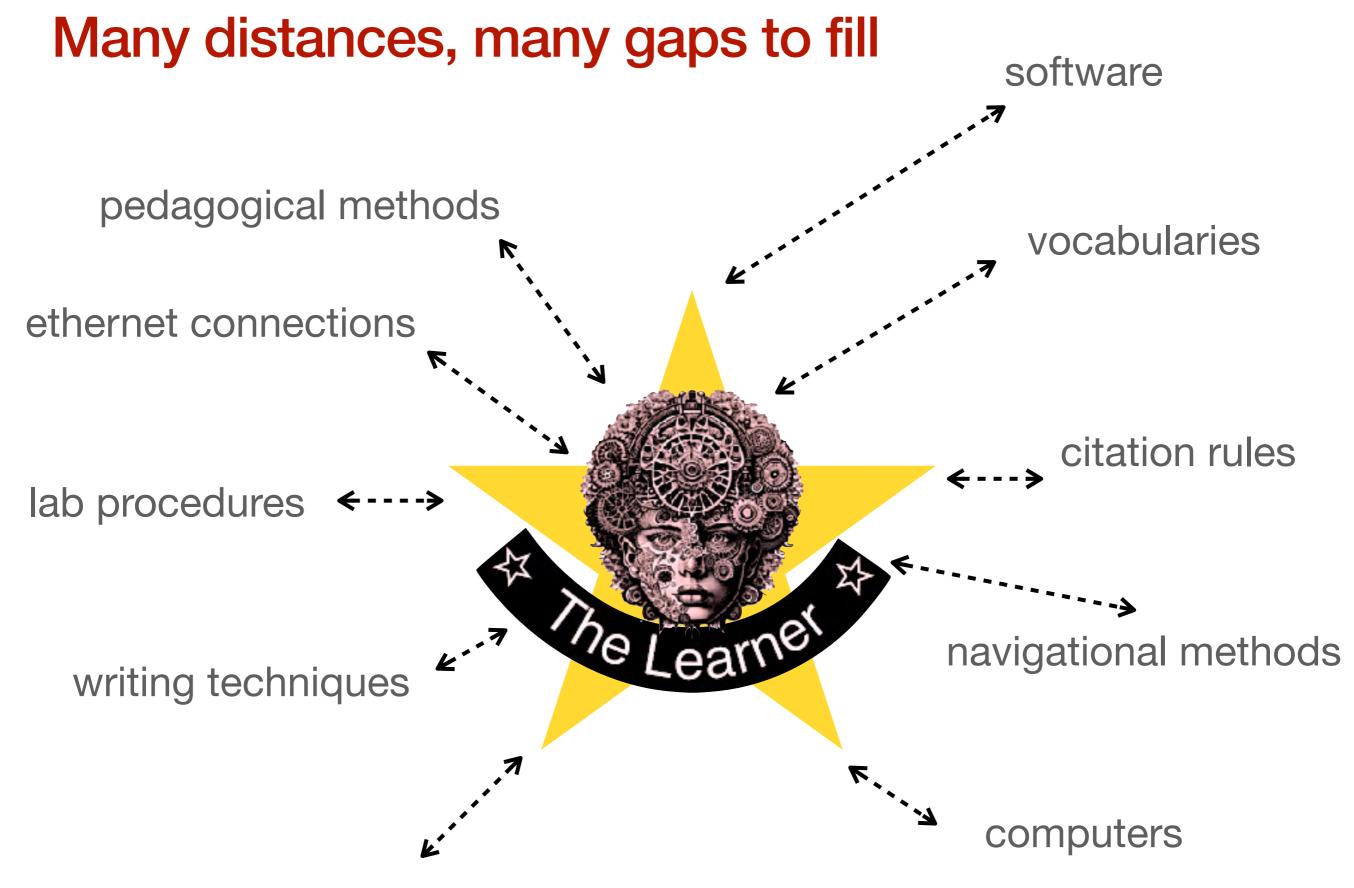


Technological distance

the sum of the gaps between the technologies we possess and those that we need in order to learn. All the technologies.



Not just the grist but the mill



techniques for using software

different for every learner

Roles for teachers

Teaching as technology

- reducing the technological distance where the technologies are not those we need to learn,
- making the technologies we do need easier to assemble/pre-assembling them
- creating opportunities to use them

BUT we are not the only teachers

Basic principles for teachers

We cannot be in control: we must let go

We must understand the cognitive gadgets our students already have.

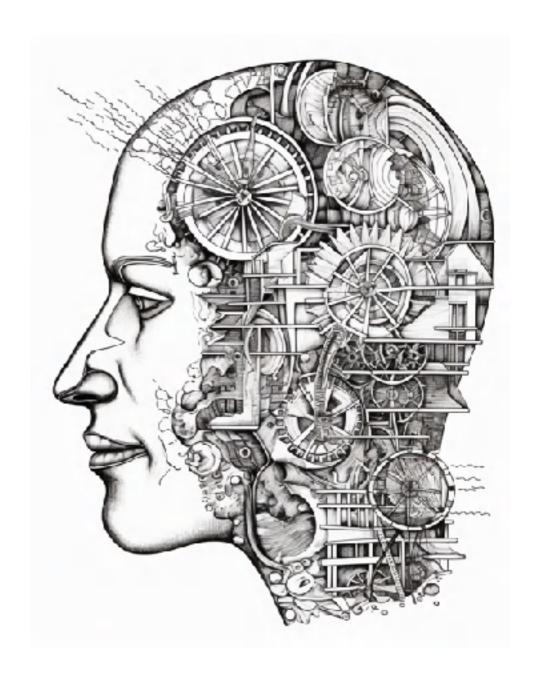
We must understand how they are assembling new ones.

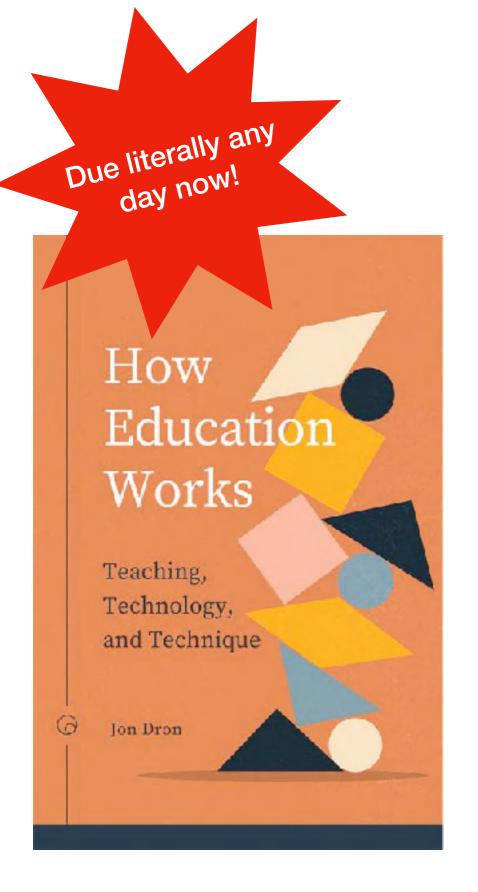
We must understand the whole.

But...

We cannot look inside their heads.

Learning itself, not just its products, must be visible.





Thank you

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