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Dimensions of reflective thinking

A] About subject domain OR about self

Deep learning; (thought experiments)
OR: reflexive rather than reflective thinking, meta-cognition

B] By the learners or the teachers

By the learners as part of learning OR by the teachers about their professional practice

C] The content of reflection:

What is reflected on, with respect to what else, when, and for what purpose

C1] On what?

E.g. reflect on actions, or on concepts on perceptions, or on facts

C2] What is it related to or checked against?

E.g. Checking new concepts against old facts and concepts

C3] When?

Before, during, after the action? [Reflection for/in/on]

C4] What for?

What's the purpose? [analytic vs. evaluative reflection]

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Active learning, and the possible interactions

A crucial aspect of an adequate theory of the learning and teaching process is the interactions a learner performs; thus, implicitly, acquiring feedback.

But interaction with (feedback from) whom or what?

Learners may / must (productively) interact with:

- A teacher
- Peers (fellow learners)
- The world / concrete action
- Self (reflection)

[Many theories emphasise one of these, and overlook others.]

Main educational senses of "reflection"

[OED: "Reflect: go back in thought, meditate, consult with oneself, remind oneself or consider." 5th of 6 meanings.]

- Thinking: about concepts? or about action / experience?
- Iteration: learning as a cycle, not a one-shot event
- Relating concepts and experience

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Theories

Kolb The two levels of public concepts and personal experience; and a cycle (only) between them.Reflection refers to the step from experience to concepts.

Schön Focus on learning from experience by itself.

So a focus on a cycle within the level of personal experience alone; and a challenge to account for learning things for which NO public conceptual description exists.

Pays attention to the "art school" or "practicum" model of HE.

<u>Laurillard</u> [diagram]. And challenges to normal practice, even if implicitly covered by this theory:

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Practice

- Making time for thinking, digestion
- Learning diaries. Reflection diaries. But are these exercises done to please a teacher OR as a personal aid to reflect the learners' *actual* concerns (in which case they may become another challenge to our LTP theories).
- Learning, and being taught to learn, from new experience, not just from the relayed and agreed experience of others.
- Teacher organises better feedback from practical actions, including real explanations of unintended effects and results.
- Teaching skills. And teaching whole task hierarchies, not just low level component skills i.e. how these skills are applied to address "real" ("authentic") tasks.

