Experiential Learning Theory

General

Experiential learning theory is a cycle learning theory introduced by American educational theorist David Kolb\(^1\) in 1971\(^2\) and was inspired by earlier works of Kurt Lewin, Jean Piaget\(^3\) and John Dewey. As it was developed within humanist paradigm, experiential learning offers a holistic perspective on learning and is orientated mostly on adult learning. Name of this theory was intended to should emphasize the importance of experience in the learning process.

Experiential learning theory defines learning as

- “the process whereby knowledge is created through the transformation of experience. Knowledge results from the combination of grasping and transforming experience.”\(^4\)

What is experiential learning?

The experiential learning theory is based on six propositions\(^5\) short described with the following three:

1. Learning is best described as a holistic process of creating knowledge and adapting to the world.
2. Learning is actually relearning, since it is greatly dependent on already learned material.
3. Learning is driven by conflict, differences, and disagreement and results in assimilation and accommodation.
Kolb suggests two opposite modes of acquiring experience:

- **concrete experience** or CE (feeling through practical experiencing),
- **abstract conceptualization** or AC (concluding and thinking about the experience),

and two opposite modes of transforming that experience into knowledge:

- **reflective observation** or RO (actively observing experience and its outcomes),
- **active experimentation** or AE (planning on how to test something and finally doing).

All of these components together form a circle of learning in which they follow one after another: CE→RO→AC→AE→CE→... The very process of learning can begin in any of them. Still, every learner develops strengths in some of mentioned modes more than in others and learn better under those conditions, which results in four different **learning styles** identified also by Kolb:

- **Assimilator** - Strong in AC and RO components. Prefers abstract conceptualizations and theoretical models, requires time to think through. Values logical validity more than practical applications.
- **Converger** - Strong in AC and AE components. Prefers practical applications of concepts and theories he learns and like experimenting. They are often good problem solvers and like dealing with technical issues.
- **Accommodator** - Strong in CE and AE components. Prefers practical experiences and acting more according to the feeling than based on logical analysis or theoretical aspects.
- **Diverger** - Strong in CE and RO modes. Prefers learning through observing and collecting.
information, good at viewing concrete situations from different points of view. This kind of people are often imaginative and emotional, and often specialize in arts.\textsuperscript{9}

Kolb's model was later refined by himself and other researchers\textsuperscript{10,11,12} through improvement of the learning styles grid resolution from $2 \times 2$ to $3 \times 3$ by introducing five additional learning styles\textsuperscript{13}:

- **Northerner** - Strong in CE and balanced in AE and RO modes. Has a capacity for deep involvement and learns through experimenting, but has problems with conceptualizations.
- **Westerner** - Strong in AE and balanced in CE and AC modes. Has great action skills and possibilities for thinking and conceptualizing, but problems with analyzing past experience.
- **Easterner** - Strong in RO and balanced in CE and AC modes. Has great observation and reflection skills as well as learning from concrete experience, but problems with putting his plans into action.
- **Southerner** - Strong in AC and balanced in AE and RO modes. Has great conceptualization skills, but little use of practical experiences.
- **Balancing** - Evenly balancing both modes of acquiring experience and both modes of transforming that experience into knowledge.

In order to identify preferred learning style in Kolb's model, "learning style inventory" method has been developed. This method for determining an individual’s optimal learning style, strengths and weaknesses consists of a survey which explores one's perceiving (how one prefers to acquire information) and processing (how one makes sense of new things). Various variants of this method can be found in simplified free on-line tests and newer methods like the adaptive style inventory or the learning skills profile have also been introduced\textsuperscript{14}.

Kolb's theory has also influenced other authors to create similar models for determining of preferred learning style. The critique that Kolb's learning styles inventory was difficult to apply to people who never really paid attention to how they learn more efficiently encouraged Peter Honey and Alan Mumford to create their Learning Styles Questionnaire\textsuperscript{15}. It was based on Kolb's theory, but instead of asking people how they learn it was probing for most common learning behaviors. Other similar
What is the practical meaning of experiential learning?

Experiential learning is a model suggested for adult learners. General implications of this model are that teaching/learning process should consist of all four stages of Kolb's model, but it also suggests individual changes should be applied, depending on learners learning style.

- Assimilators - prefer watching, thinking and good explanations of theories and ideas to practical experiences. This kind of learners usually enjoy lectures and readings as well as having enough time to think about new ideas.
- Convergers - prefer doing and thinking, finding practical solutions to problems. This kind of learners usually like new ideas and their practical applications.
- Accomodators - prefer practical experiences and intuitive approach instead of reading instructions. This kind of learners also usually prefer teamwork.
- Divergers - prefer watching, collecting information, working in groups and brainstorm instead of having practical experience.

Kolb's theory was applied in a number of studies on topics that include (online) education, computer and information science, psychology, management, medicine, nursing, accounting and law.

Criticisms

Some of the criticisms referring to Kolb's theory suggest:

- his learning cycle is oversimplified and ignores non-experiential ways of learning,
- his learning cycle pays insufficient attention to goals, purposes, intentions, choice and decision-making, which are also a part of learning,
- the results of learning style inventory are based solely on the way learners rate themselves which results in questionable results.

Results of experimental validation vary: a meta-study of 81 studies implementing experiential learning resulted in 61.7% of the studies supporting it, 16.1% showing mixed support, and 22.2% not support experiential learning theory. In another meta-study of learning style inventory assessment, out of analyzed studies, 49 showed strong support, 40 showed mixed support, and 12 studies showed no support at all.

Keywords and most important names

- Concrete experience (CE), reflective observation (RO), abstract conceptualization (AC), active experimentation (AE), assimilator, converger, accomodator, diverger, learning style inventory, learning styles, northerner, westerner, easterner, southerner, balancing
- David Kolb
Bibliography


Lowy, Alex, and Phil Hood. The power of the 2x2 matrix: using 2x2 thinking to solve business problems and make better decisions. John Wiley and Sons, 2004.


Read more


1) Some sources like Cooper, S. Theories of Learning in Educational Psychology or Kearsley G. Explorations in Learning & Instruction: The Theory Into Practice Database associate experiential learning with Carl Rogers.


3) See also: Stage Theory of Cognitive Development


Hall, 1984.


15) Honey & Mumford Learning Styles Questionnaire (LSQ)


17) VARK a guide to learning styles


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