

Increasing the design's effectiveness lies in understanding "readiness-to-hand" and anticipating "breakdowns"

When people are engaged with a successfully designed tool,
The action

is in

Readiness-to-hand

is related to

Thrownness

is a quality of

Being-in-the-world

is unconcealed in

Human Action

An unstable condition where

"Objects are taken for granted without explicit recognition or identification."¹ So, they are transparent.

People are always acting unreflectively. Eg. "To the person doing the hammering, the hammer as such does not exist. It is a part of the background of readiness-to-hand that is taken for granted without explicit recognition as an object. It is part of the hammerer's world, but is not present any more than are the tendons of the hammerer's arm."¹

has potential for

A state where "people are engaged in acting within a situation, without the opportunity to fully disengage themselves and function as detached observers."¹

in this situation:

- People cannot avoid acting.
- People cannot step back and reflect on their action.
- All effects of actions cannot be predicted.
- People do not have a stable representation of the situation.
- Every representation is an interpretation.

"Designing and the outcomes of designing are a fundamental human action."² So, design is not describing the situation but creating it.

"The interpreted and the interpreter do not exist independently: existence is interpretation, and interpretation is existence."¹

Therefore "meaning is fundamentally social that cannot be elicited through mental representation."¹

is based on

Breakdown

can be defined in

A negative way

"It is the interrupted moment of our habitual, standard, comfortable being-in-the-world."¹

presents

Problems

Eg. Doing the hammering, the hammer breaks or the handle slips from grasp.

reduce

Shared unarticulated contexts

permit actions and cognition to merge.

comprise

or

A positive way

"It reveals to people the nature of their practices and equipment, making them present-to-hand to us."¹

Objects and properties are not inherent in the world, but arise only in an event of breaking down in which objects and properties become present-at-hand.¹

serves as

Cognitive function

makes

Objects and properties become Present-at-hand

means

- Objects and properties become opaque.
- "A detached reflection on the external world."¹
- A phenomenon to be considered, represented, and manipulated.

Eg. Its "hammerness" emerges if the hammer breaks or slips from grasp, or if there is a nail to be driven and the hammer cannot be found.¹

can be accessed through

Backgrounds

Mutual concerns of all participants.

mean

"All participants are responsible for the consequences of how their acts will be understood within the tradition."¹ There exists the patterns of interaction that occur within a shared background.

It is meaningless to talk about the existence of objects and their properties in the absence of mutual concerns.¹

The Pre-understanding

A result of an individual's experience within a tradition. Which is part of the background.

is

- Inevitable.
- The basis for the analysis of understanding "readiness -to-hand".
- The prejudice, cannot be fully understood.

can be accessed through

New Design

New design can be created and implemented only in the space that emerges in the recurrent structure of breakdown.

"A design constitutes an interpretation of breakdown and a committed attempt to anticipate future breakdowns."¹

Rationalistic orientation

exists in

- Is based on the assumption that the detached theoretical point of view is superior to the involved practical viewpoint.
- Accepts problems of objective existence and objective analyses.
- "The existence of both the objective world of physical reality and the subjective mental world conceals its central social role."¹

creates

Blindness

"Detached contemplation can be illuminating, but it also obscures the phenomena themselves by isolating and categorizing them."¹

expands

Practical understanding

Putting detached theoretical understanding into a context of cognition as praxis - as concerned acting in the world.¹

Heidegger insisted that "people have primary access to the world through practical involvement with the ready-to-hand, the world in which we are always acting reflectively."¹

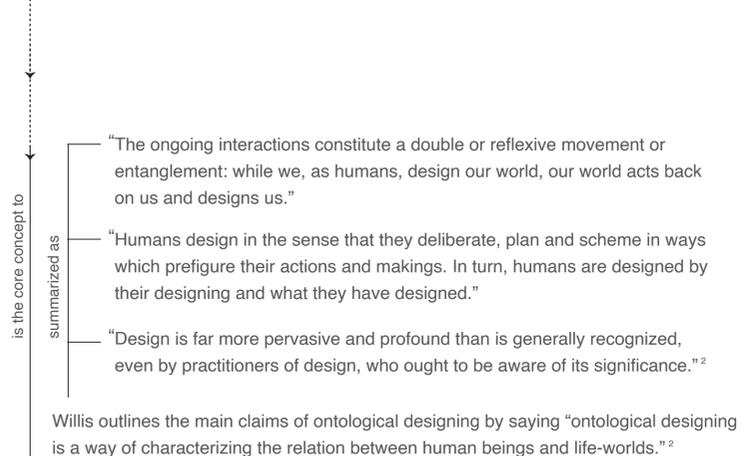
Gadamer said "Prejudices are biases of our openness to the world."¹

The classic hermeneutic circle

In which the meaning exists independently of the act of interpretation, to get rid of all prejudices and produce an objective analysis.

to

The fundamental principle of human understanding on the nature and his state



The ontology of design

involves

Reference:

¹ Winograd, T., and Flores, F., (1986). Understanding Computers and Cognition. Part I Theoretical Background, pages 3-77

² Willis, A.-M. (2006). Ontological designing – laying the ground. In: Willis, A.-M., ed. Design Philosophy Papers, Collection Three. from https://www.academia.edu/888457/Ontological_designing