

NB A2 a private process
EM of this stage

M2 Empirical Modelling: Closed World vs. Open Development

Themes

Motivation

theory vs. practice A1

Context

traditional rational-empirical framework A2

absolutism vs. pragmatism A3

empiricism A4

provisional knowledge D1

Key concepts

conjunctive relations B1

identity B2

chaos of experience C2-C3-C4

objectivity B5

knowledge as a correspondence between experiences C5

pluralism C1

directly lived D1

analogue, non-linguistic representation B3-B4

Comparison

Consider in relation to a logicist position

Semantic distinctions between postulating and adopting a hypothesis

Relative qualities of two kinds of model

Relationships between open development and closed world

OXO by way of illustration ?

Themes

Motivation

theory vs. practice	A1
tension in various areas of CS	
closed-world vs. open development engineering cultures	
logicism controversy, relational DBs etc	

Context

traditional rational-empirical framework	A2
some (caricature) of a philosophical framework	
relative contributions from empirical / rational components	
absolutism vs. pragmatism	A3
the status of truth / nature of understanding and certainty	
empiricism	A4
dictionary definitions flavour of radical empiricism (not similar in emphasis to trad?)	
provisional knowledge	D1
constraints vs dependencies what we know, not what we don't know embodied latent incomplete knowledge	

Key concepts

conjunctive relations	B1
associations of observables	
identity / states of mind	B2
continous transitions	
analogue, non-linguistic representation	B3-B4
limitations of symbolic and logicist representations metaphor	
chaos of experience	C2-C3-C4
combination of consciousnesses pertaining to a single state	
objectivity	B5
experimental paradox commitment on basis of empirical evidence	

knowledge as a correspondence between experiences C5

correlation between states such as is experienced in artefact
experimental procedures: development of instrumentation
knowing in *Do something and "look" to see what "moves"* paradigm

pluralism C1

conflict between perceptions
concurrent engineering (e.g. railway track layout and connectivity)

directly lived D1

spreadsheet as representation of immediate state
openness / super user mode of interaction

Comparison

Consider in relation to a logicist position

Brian Smith concerns

Semantic distinctions between postulating and adopting a hypothesis

being able to reason, exploiting commitment and reliability, termini

Relative qualities of two kinds of model

manifesto paper: communication / formalisation etc

Relationships between open development and closed world

progression to closed-world models (e.g. via consensus and via translation)

Capel to content
Bradley p. 100

Conjunctive relations

identity
opener

experience that
know another

Conjunctive is subject
object
vs object

directly have
continuity
"stream of consciousness"

directly
immediate
experience

Subjective
&
objective

out of joint
cut across
mental
& physical

Pluralist

many
viewpoints

Consciousness
object

form & content
2 experiences
not dualism

Pragmatic

no single truth
pragmatic
rules