the improbable yet elementary case

@causalmechanics/ @themanual4am

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a mathematical paradigmatic mashup: Thomas Kuhn Vs map-territory Vs ...?

prefer the simplest explanation [1]

consider all mathematics as pseudo-mathematics; a means for a novice mathematician to express ideas in less time and fewer words than a similarly novice writer might, in prose. all terms are tentative. corrections $\wedge\vee$ *advice, welcome.*

...

[1] which works

1 composition, and family

($M\colon Pa \subset Pr \subset Me$, $T\colon Sp \subset Ph \subset Ch$)

the relative relation of composed, composables: all maps, all territory, are composition

Continuing from section **??**, this this section will define the familial composition of maps and respective territory.

Maps M, will be defined:

a paradigm Pa, is a set of paradigmatic principals Pr, each a set of measures Me

Territory T, will be defined:

a phenomenal scope Sp, is a set of universal phenomena Ph, each a set of phenomenal characteristics Ch

1.1 composable maps

($M\colon Pa$, Pr , Me)

1.1.1 paradigm

($Pa \mapsto Sp$, $Pa(Sp) \to Pa$)

A paradigm Pa, is a subset $\subset$ of map M:
A paradigm Pa, represents a subset $\subset$ of territory T, referred to as a phenomenal scope Sp:
A paradigm Pa, resolves $r()$ a phenomenal scope Sp, to representational account:

$$Pa(Sp) \to Pa$$

1.1.2 paradigmatic principal

($Pr \mapsto Ph$, $Pr(Ph) \to Pr$)

A paradigmatic principal Pr, is a subset $\subset$ of paradigm Pa:

$$Pr \subset Pa$$

A paradigmatic principal Pr, represents a subset $\subset$ of territory T, referred to as a universal phenomena Ph:

$$Pr \mapsto Ph$$

A paradigmatic principal Pr, resolves $r()$ a universal phenomena Ph, to representational account:

$$Pr(Ph) \to Pr$$

1.1.3 measure

($Me \mapsto \frac{\subset}{T}$, $Me(\frac{\subset}{T}) \to Me$)

A measure Me, is a subset $\subset$ of paradigmatic principal Pr:

$$Me \subset Pr$$

A measure Me, represents a subset $\subset$ of territory T, referred to as a phenomenal characteristic Ch:

$$Me \mapsto Ch$$

A measure Me , resolves $r()$ a phenomenal characteristic Ch, to representational account:

$$Me(Ch) \to Me$$

1.1.4 the family of maps

(M: Pa , Pr , Me)

Representation:

$$M \mapsto T\!:\ Pa \mapsto Sp\ ,\ Pr \mapsto Ph\ ,\ Me \mapsto Ch$$

Subsets:

$$Me \subset Pr \subset Pa \subset M$$

A paradigm Pa, is a set of paradigmatic principals Pr:

$$Pa = \{\ldots\}_{Pr}$$

A paradigmatic principal Pr, is a set of measures Me:

$$Pr = \{\ldots\}_{Me}$$

Composition expression:

$$Pa = \{\{\ldots\}_{Me}, \ldots\}_{Pr}$$

Resolution:

$$r(T) \to M\!:\ ,\ Pa(Sp) \to Pa\ ,\ Pr(Ph) \to Pr\ ,\ Me(Ch) \to Me$$

1.2 composable territory

(T: Sp , Ph , Ch)

1.2.1 phenomenal scope

(Sp: $Pa \mapsto Sp$, $Pa(Sp) \to Pa$)

A phenomenal scope Sp, is a subset $\subset$ of territory T:

$$Sp \subset T$$

A phenomenal scope Sp, is represented by a paradigm Pa:

$$Pa \mapsto Sp$$

A phenomenal scope Sp, is resolved $r()$ to representational account by a paradigm Pa:

$$Pa(Sp) \to Pa$$

1.2.2 universal phenomena

(Ph: $Pr \mapsto Ph$, $Pr(Ph) \to Pr$)

A universal phenomena Ph, is a subset $\subset$ of territory T:

$$Ph \subset T$$

A universal phenomena Ph, is represented by a paradigmatic principal Pr:

$$Pr \mapsto Ph$$

A universal phenomena Ph, is resolved $r()$ to representational account by a paradigmatic principal Pr:

$$Pr(Ph) \to Pr$$

1.2.3 phenomenal characteristic

(Ch: $Me \mapsto Ch$, $Me(Ch) \rightarrow Me$)

A phenomenal characteristic Ch, is a subset $\subset$ of territory T:

$$Ch \subset T$$

A phenomenal characteristic Ch, is represented by a measure Me:

$$Me \mapsto Ch$$

A phenomenal characteristic Ch, is resolved $r()$ to representational account by a measure Me:

$$Me(Ch) \rightarrow Me$$

1.2.4 the family of territory

(T: Sp , Ph , Ch)

Representation:

$$M \mapsto T\colon\ Pa \mapsto Sp,\ Pr \mapsto Ph,\ Me \mapsto Ch$$

Subsets:

$$Ch \subset Ph \subset Sp \subset T$$

A universal phenomena Ph , as a set of phenomenal characteristics Ch:

$$Ph = \{\ldots\}_{Ch}$$

A paradigmatic scope Sp , as a set of universal phenomena Ph:

$$Sp = \{\ldots\}_{Ph}$$

Composition expression:

$$Sp = \{\{\ldots\}_{Ch}, \ldots\}_{Ph}$$

Resolution:

$$r(T) \rightarrow M\colon\ ,\ Pa(Sp) \rightarrow Pa\ ,\ Pr(Ph) \rightarrow Pr\ ,\ Me(Ch) \rightarrow Me$$

$$\square$$