Time

Emergence

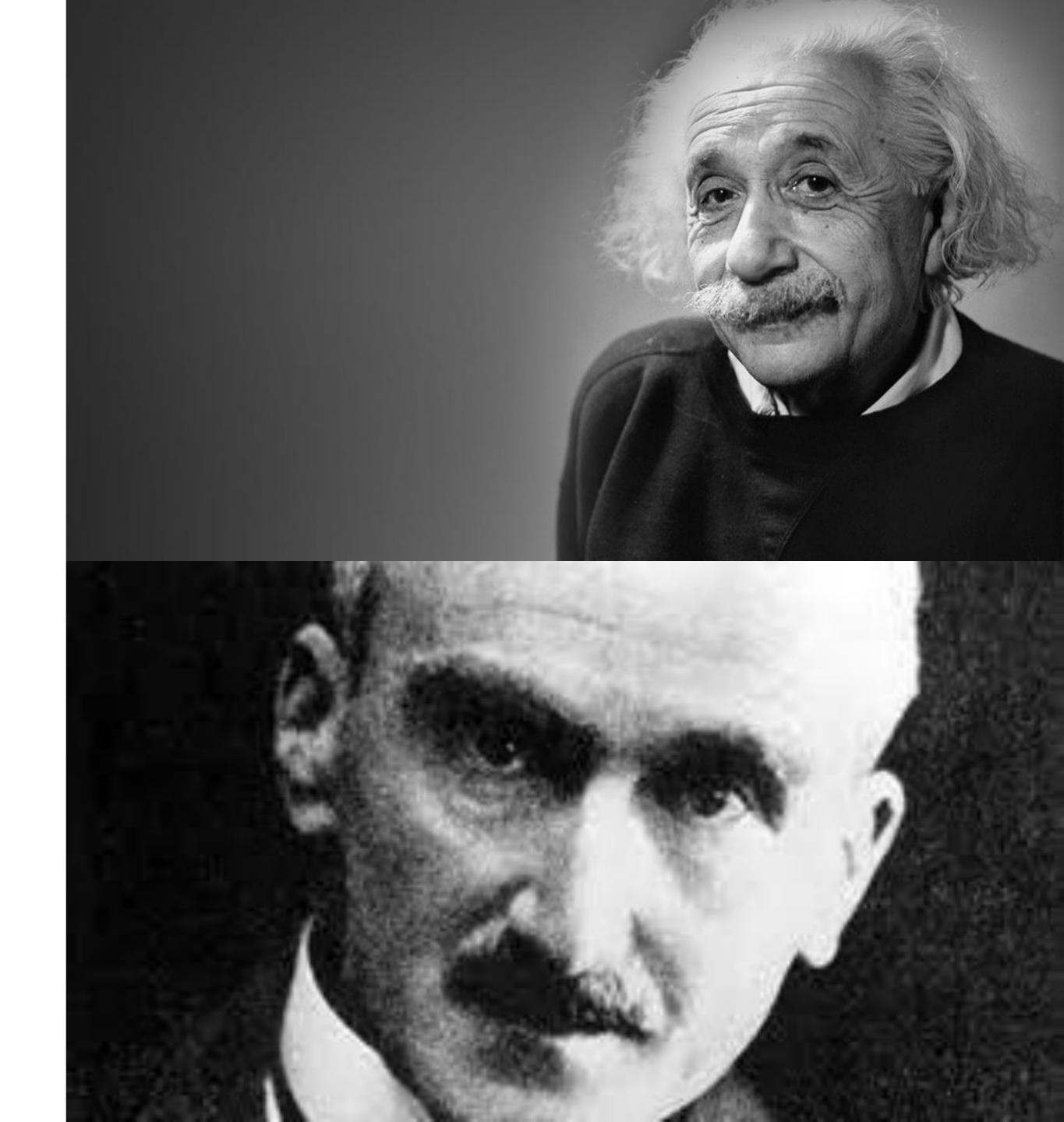
Constantijn-Alexander Kusters kusters@esphil.eur.nl
Erasmus University Rotterdam
Biosemiotic Gathering 2023

Einstein

Against absolute time

Bergson

Against absolute time



Einstein

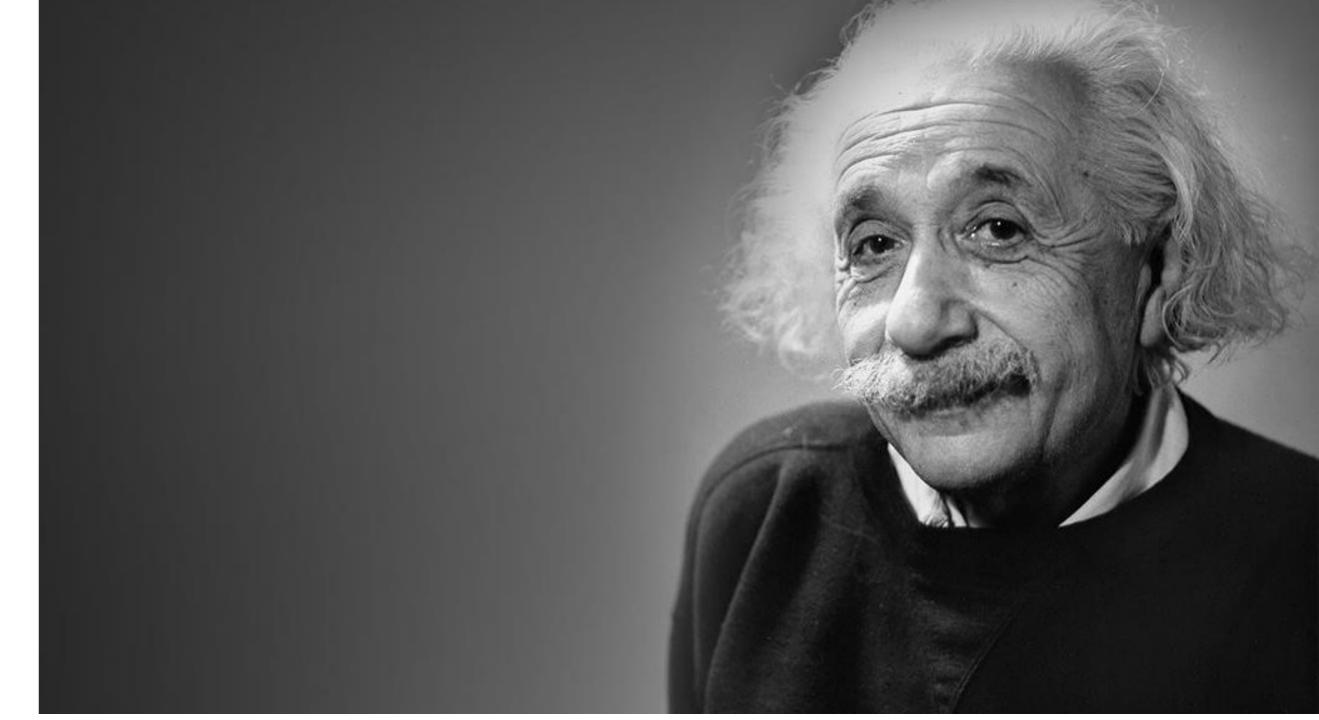
Against absolute time

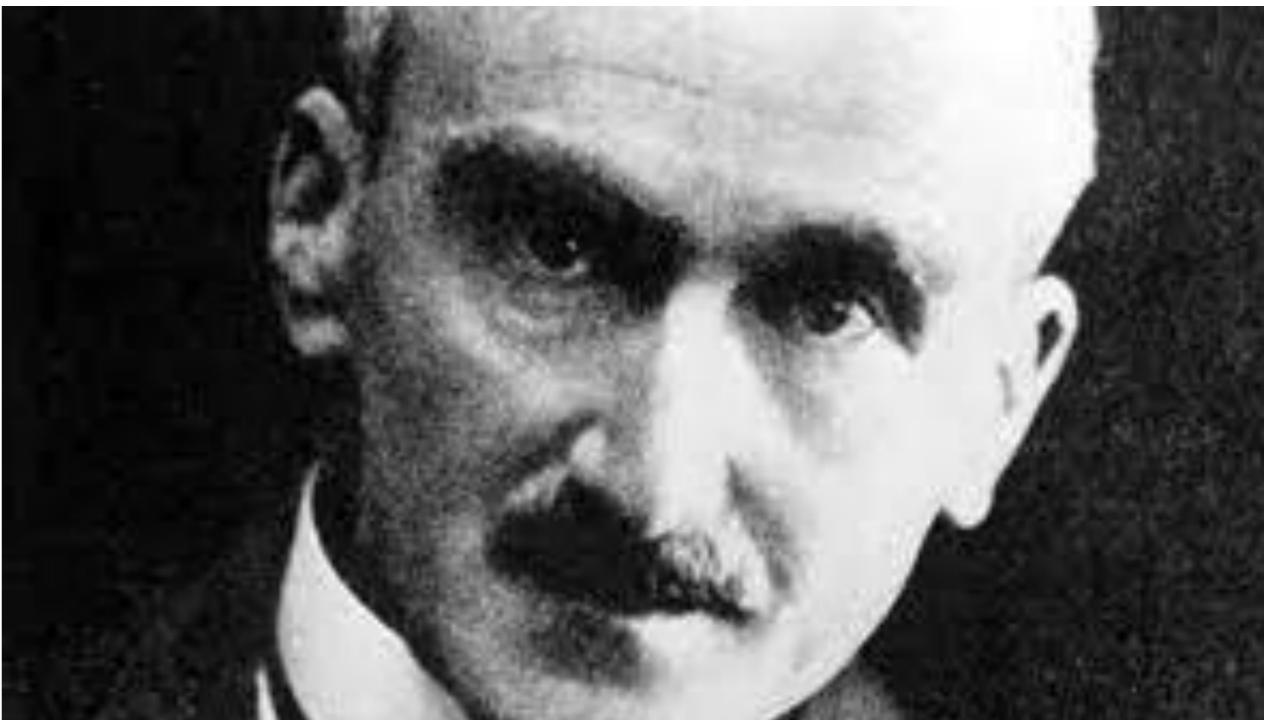
Time of the philosopher is an illusion

Bergson

Against absolute time

Meaningful time cannot be reduced to space-time







Paul Ricœur

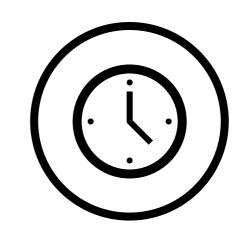
Hermeneutic Structure of Meaning



Paul Ricœur

Hermeneutic Structure of Meaning

Aporia of Closure



?



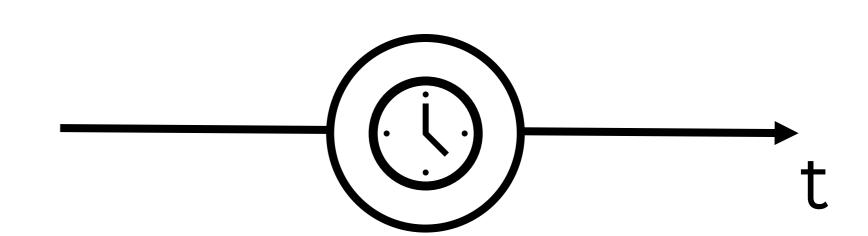


Paul Ricœur

Hermeneutic Structure of Meaning

Aporia of Closure

Aporia of Presentism





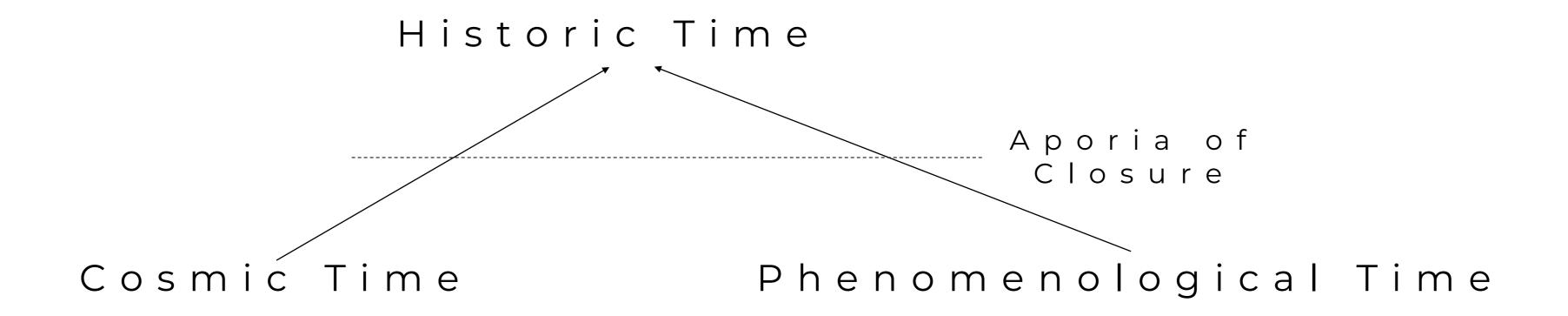
Paul Ricœur

Hermeneutic Structure of Meaning

Aporia of Closure

Aporia of Presentism

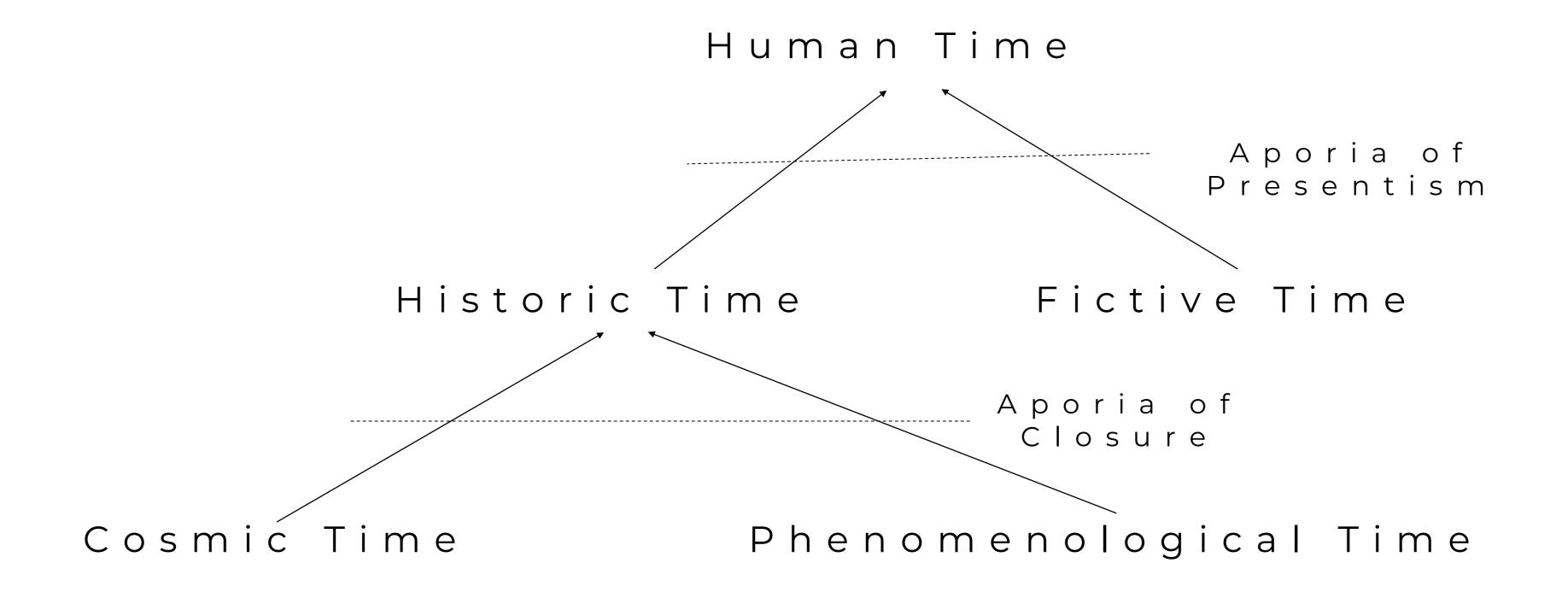
Heidegger's Shortcut



Historic Time

Mediates between the time lived through and time as measured movement

Temporal Narrative Synthesis



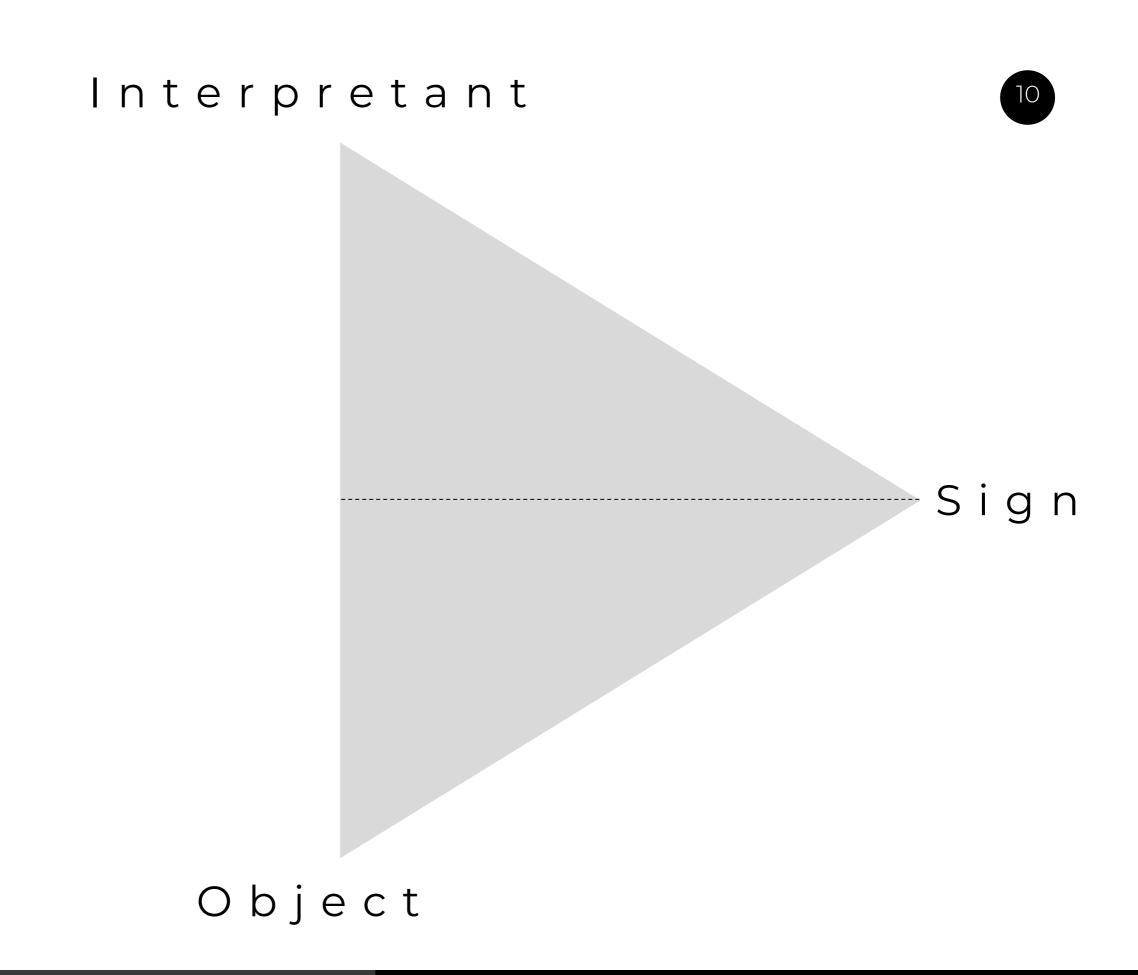
Historic Time

Mediates between the time lived through and time as measured movement

Temporal Narrative Synthesis

Human Time

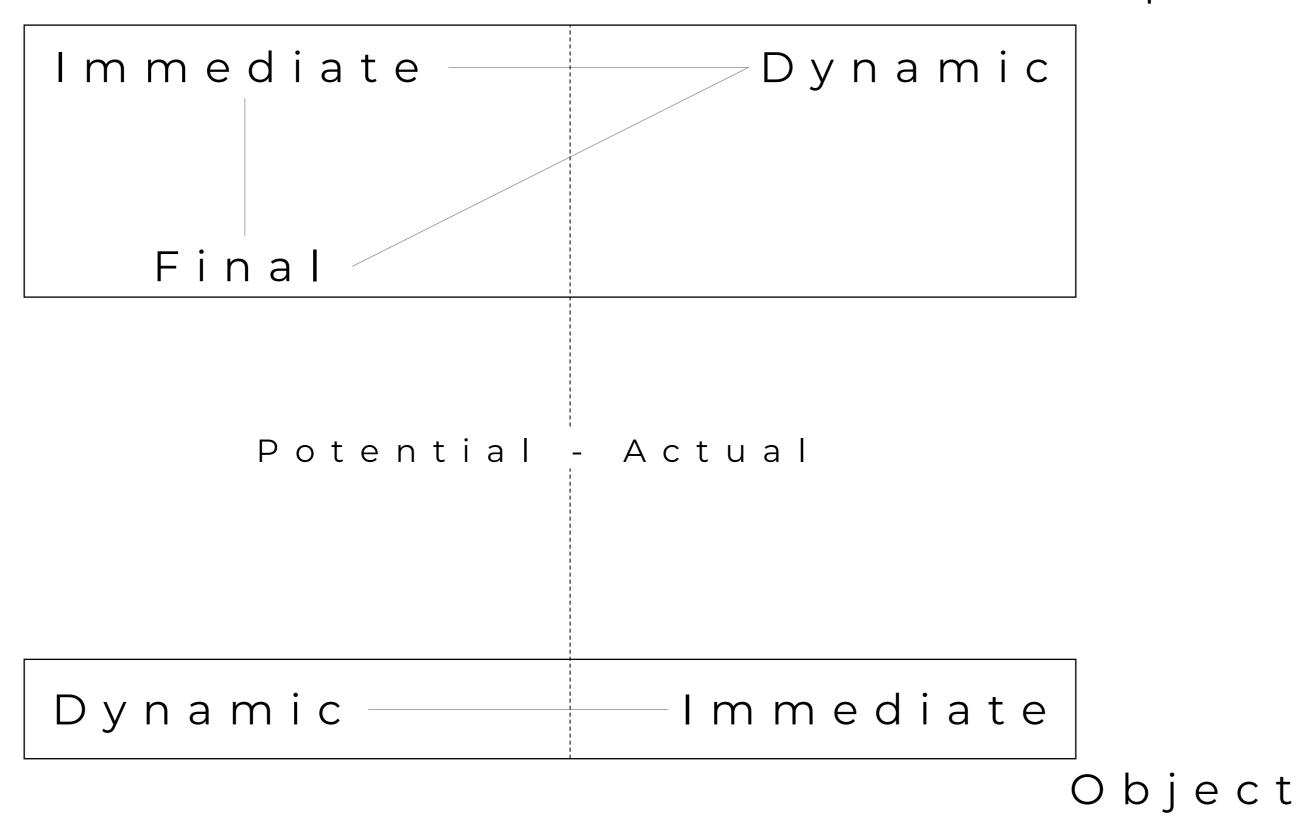
Adds the mediation between the absolute freedom of undetermined possibility and the already determined past



Interpretant - Object

Mediates the gap between interpretant and object through sign

Semiosis



Interpretant - Object

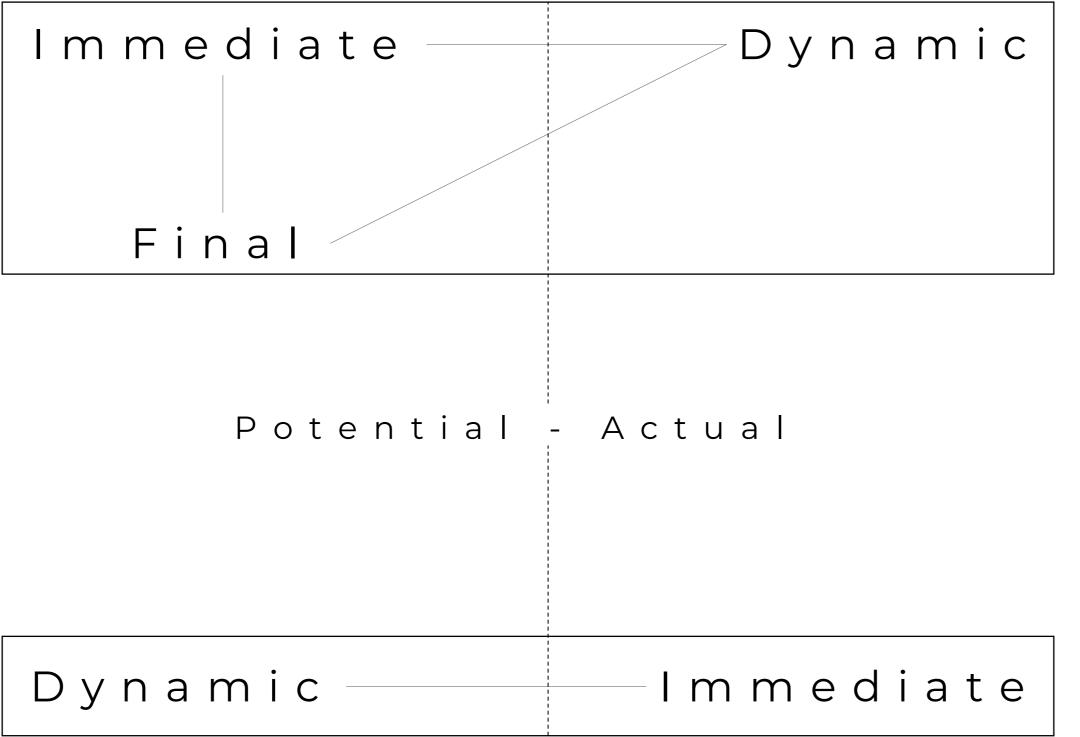
Mediates the gap between interpretant and object through sign

Semiosis

Potential - Actual

Mediation in terms of the coming together of potentiality and that which is actualised





Sign

Object

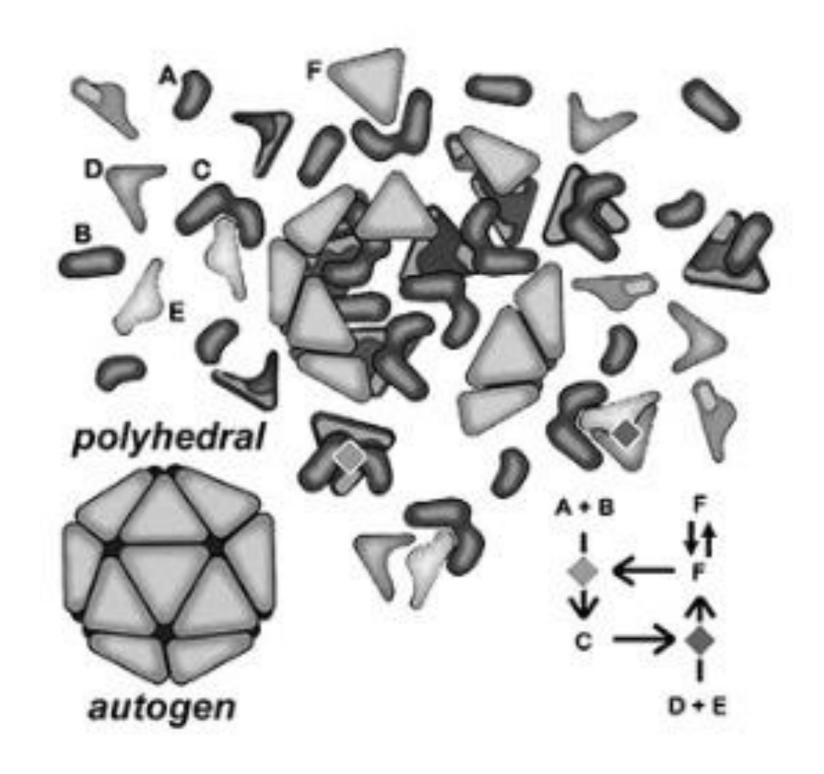
Interpretant - Object

Mediates the gap between interpretant and object through sign

Semiosis

Potential - Actual

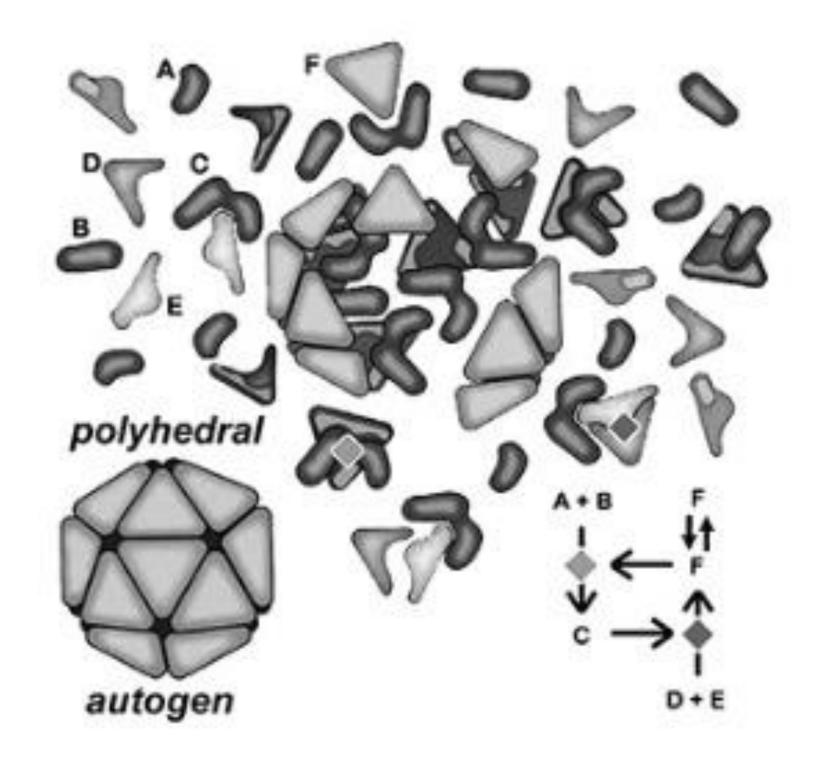
Mediation in terms of the coming together of potentiality and that which is actualised



Autogenesis

Ententional Phenomena

(Terrence Deacon, *Incomplete Nature*, p. 305)

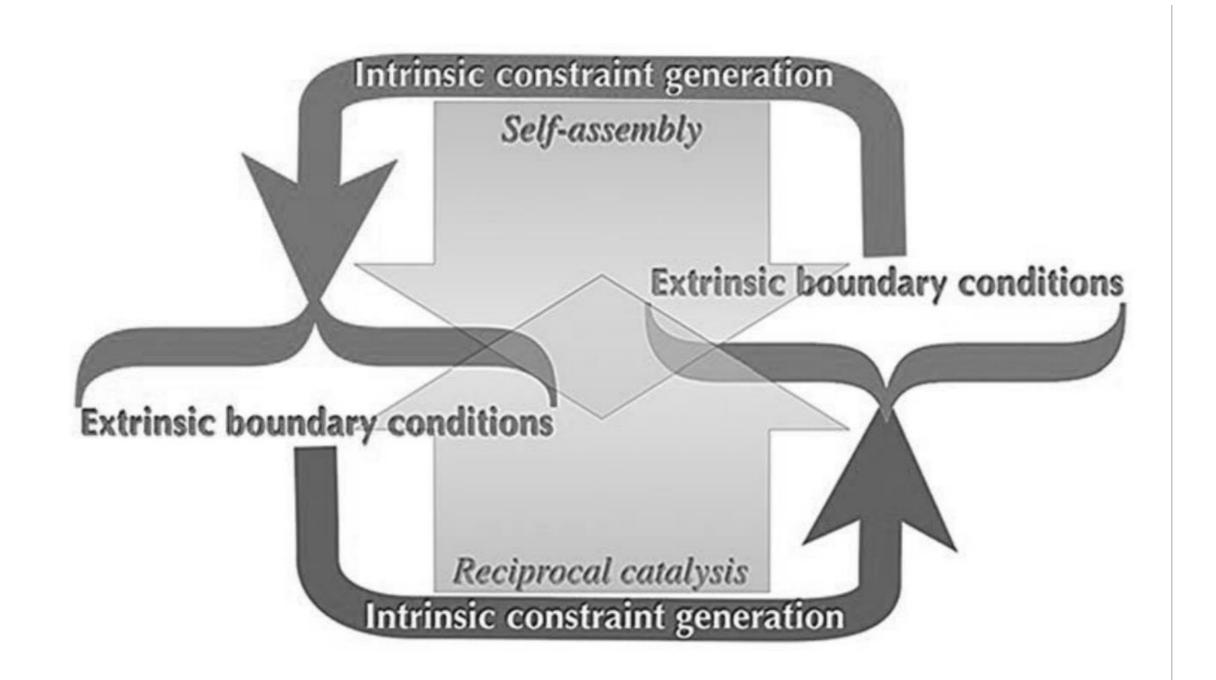


Autogenesis

Ententional Phenomena

The Simplest Possible Proto-Semiosis

(Terrence Deacon, *Incomplete Nature*, p. 305)



(Terrence Deacon, How Molecules Became Signs, p. 6)

Autogenesis

Ententional Phenomena

The Simplest Possible Proto-Semiosis

Autocatalysis & Self-Assembly

Claude Bremond

Simplest Possible Narrative

Virtuality
Actualization
Goal attainment

Virtuality → (e.g., goal to be obtained) Actualization → (e.g., act necessary to attain goal)

Absence of actualization (e.g., inertia, impediment to action) Goal attained (e.g., act successful) Goal not attained (e.g., act fails)

(Claude Bremond, The Logic of Narrative Possibilities, p. 388)



Claude Bremond

Simplest Possible Narrative

Virtuality
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Goal attainment

Virtuality → (e.g., goal to be obtained) Actualization →

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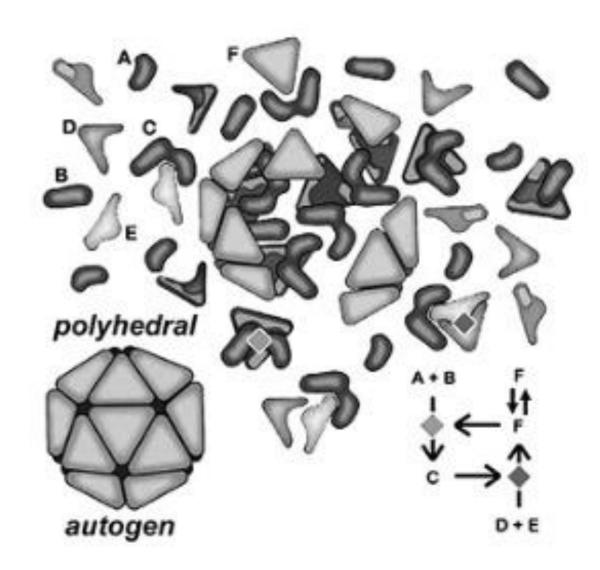
Goal attained (e.g., act successful) Goal not attained (e.g., act fails)

(Claude Bremond, The Logic of Narrative Possibilities, p. 388)

Terrence Deacon

Simplest Possible Semiogenesis

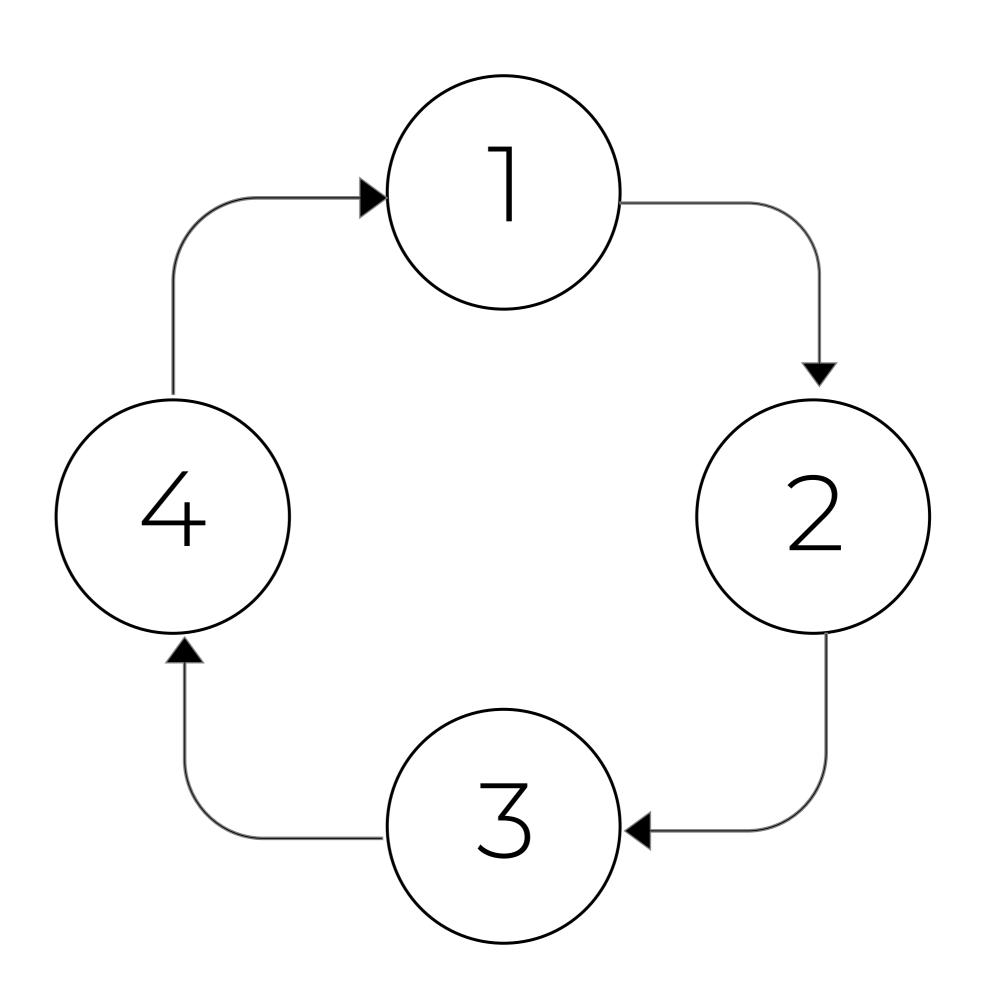
Potential for Self-replication
Spillage
Self-replication



(Terrence Deacon, *Incomplete Nature*, p. 305)

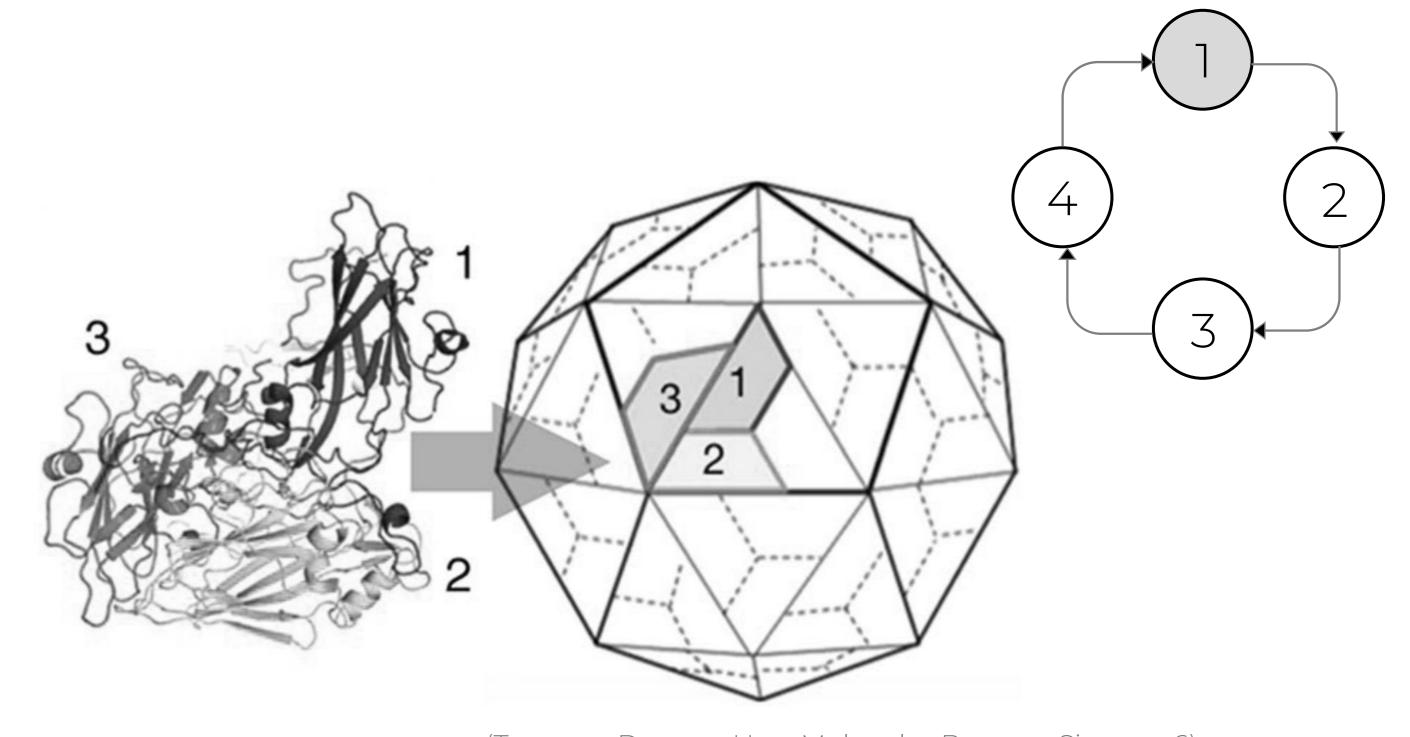
18

Time & Biosemiosis in the Autogen



Time & Biosemiosis in the Autogen

Self-Assembly

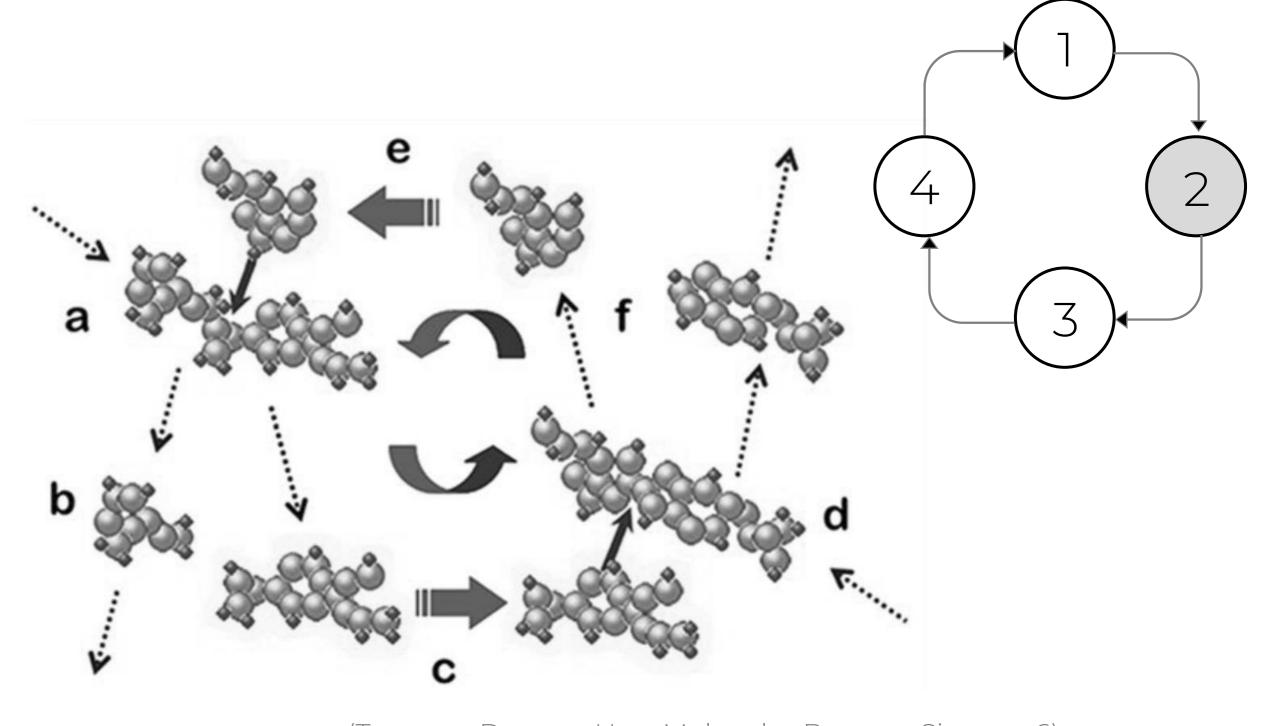


(Terrence Deacon, How Molecules Became Signs, p. 6)

Time & Biosemiosis in the Autogen

Self-Assembly

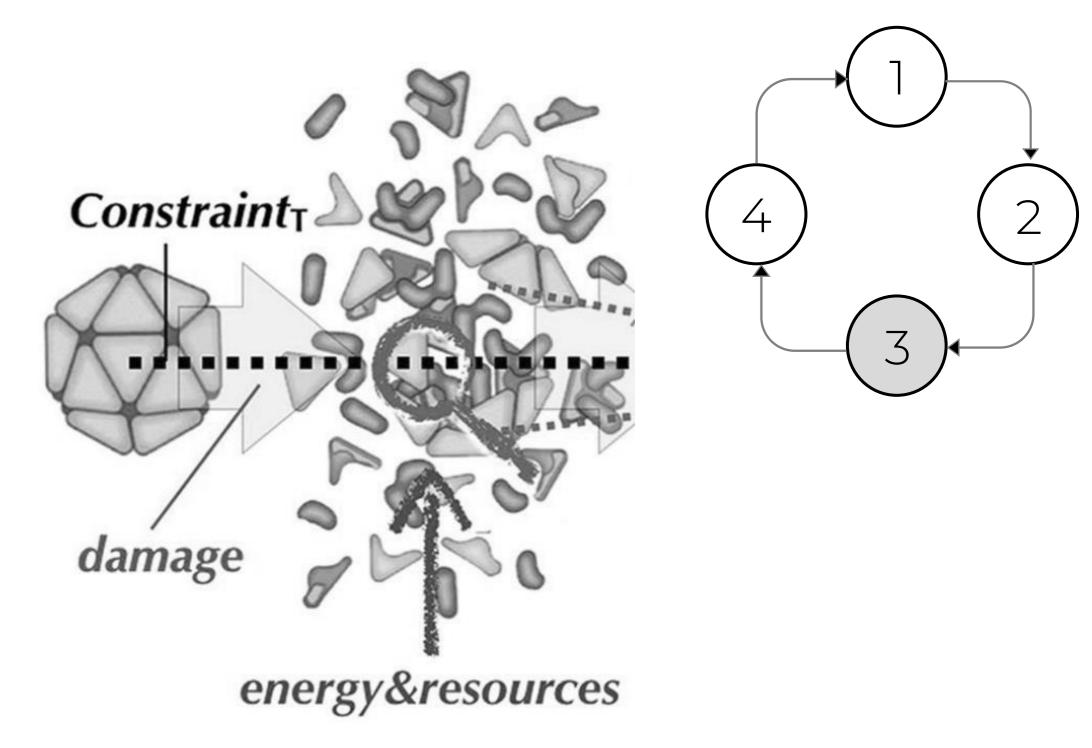
2 Contained Autocatalysis



(Terrence Deacon, How Molecules Became Signs, p. 6)

Time & Biosemiosis in the Autogen

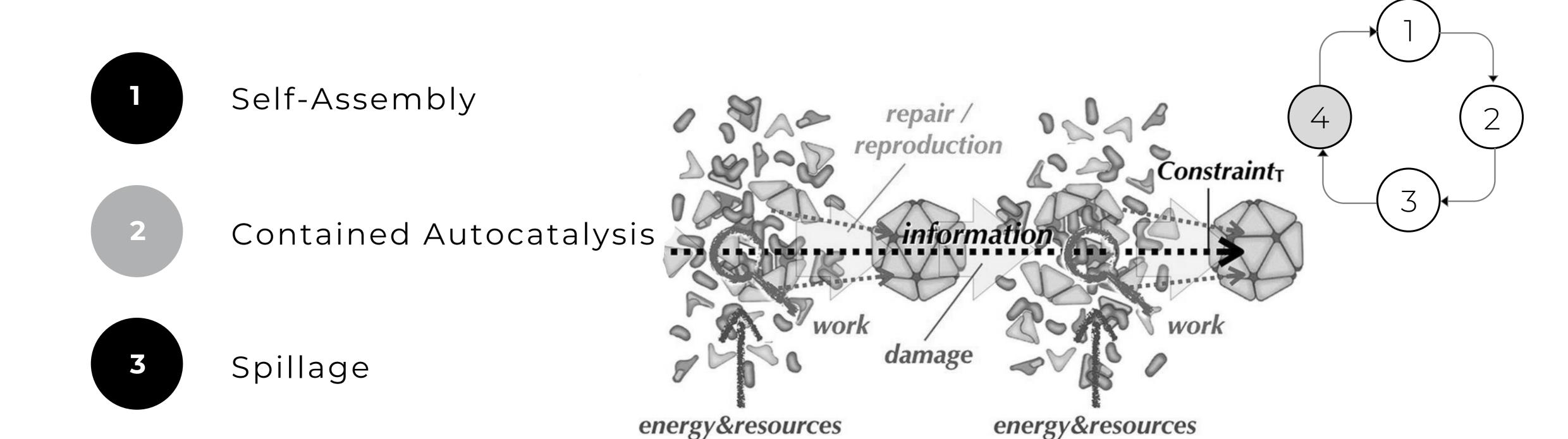
- Self-Assembly
- 2 Contained Autocatalysis
- 3 Spillage



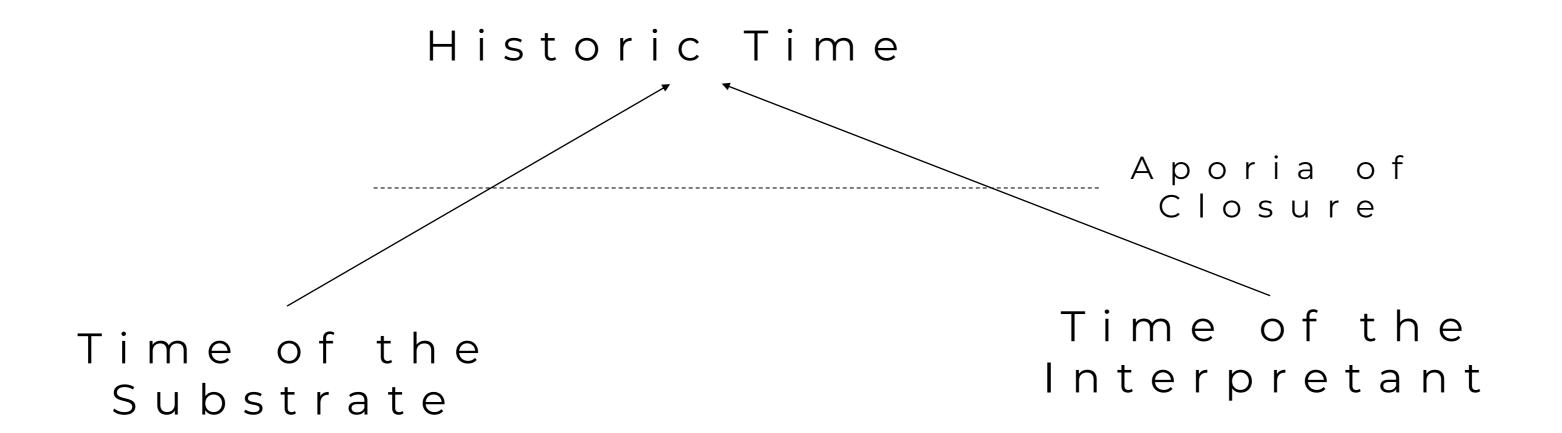
(Terrence Deacon, How Molecules Became Signs, p. 10)

(Terrence Deacon, How Molecules Became Signs, p. 10)

Time & Biosemiosis in the Autogen



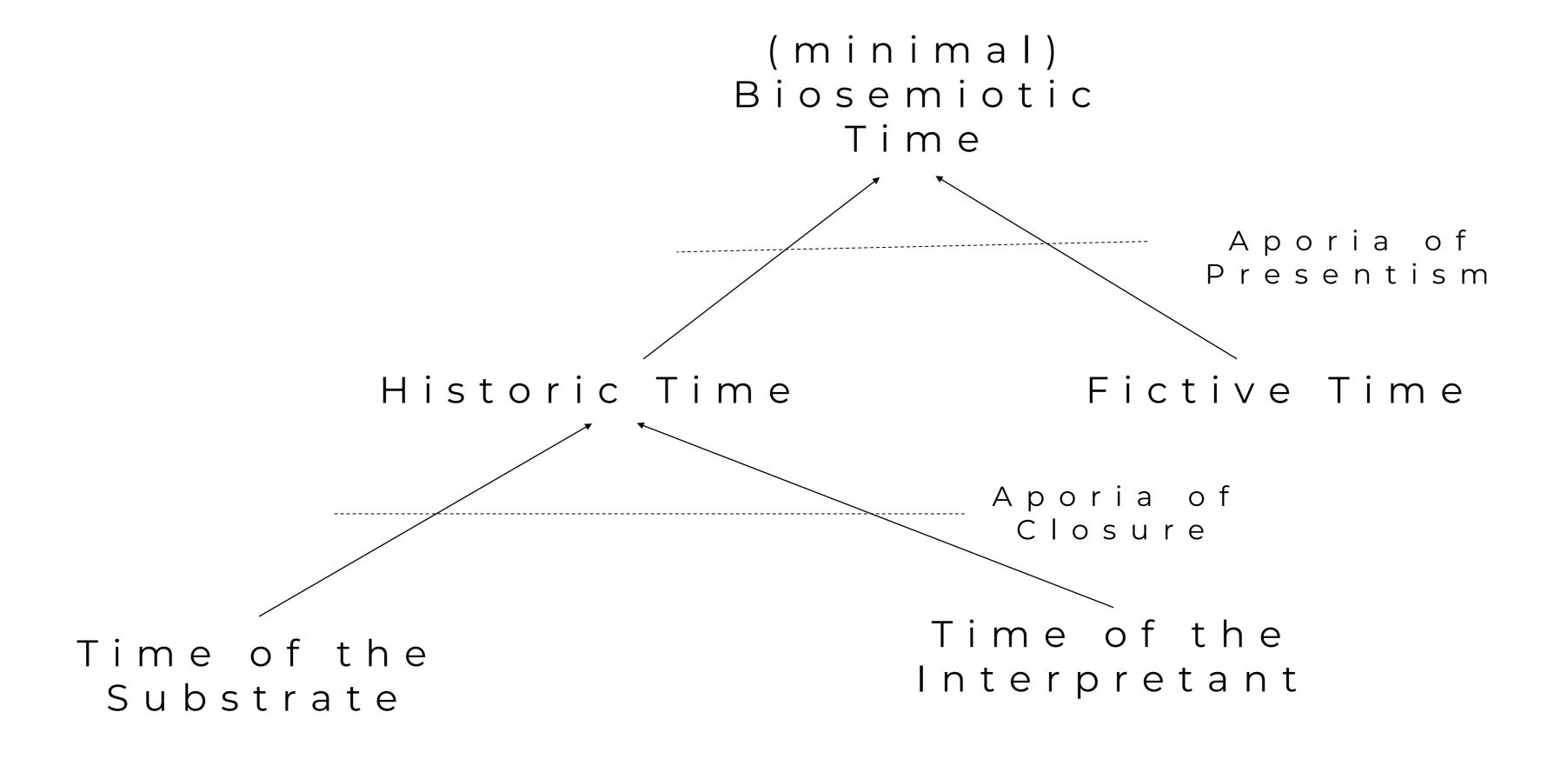
Self-Repair & Attainment



Historic Time

Mediates between the time of the substrate and the interpretant.

Temporal Biosemiotic Mediation



Historic Time

Mediates between the time of the substrate and the interpretant.

Temporal Biosemiotic Mediation

Biosemiotic Time

Further mediates the presentness of actualization with a past and future in absence

