

心智與自然

知識論、家庭治療、溝通研究、
演化生物學、管理學、系統理論、
教育……等領域不可不讀的一本書

Mind and Nature
A Necessary Unity
by Gregory Bateson

統合生命與非生命世界
的心智生態學

葛雷格里·貝特森◎著
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【專文推薦】

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(first-order connections)◎◎◎◎◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎
(second-order connection),◎◎◎◎◎◎◎◎◎◎

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◎◎(◎◎◎◎◎◎)◎◎◎,◎◎◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎◎◎
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◎◎◎◎◎◎,◎◎◎,◎◎◎◎◎◎◎◎◎◎◎(John Keats)⁹ ◎◎◎◎◎◎◎(Ode on a Grecian Urn)◎◎◎
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◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎ ◎◎◎◎◎◎◎◎◎; ◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎, ◎◎◎◎◎---◎◎◎; ◎
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◎◎◎◎◎)◎◎◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎◎◎◎◎◎◎,◎◎◎◎◎◎◎◎◎◎◎◎

意味的関係

意味的関係とは、意味的に関連する概念や事象の間の関係のことである。例えば、
「鳥は動物である」という文は、鳥と動物という概念の間に意味的関係を示している。
この関係を形式的に表現する方法として、以下のような方法がある。

■ 意味的関係の表現

意味的関係は、意味的関連性(relevance)によって表現される。例えば、
「AはBの親である」という文は、AとBという概念の間に意味的関係を示している。

意味的関係の種類:

1. AはBの親である

2. AはBの兄弟である (AとBは兄弟である)

3. AはBの友達である (AとBは友達である)

4. AはBの学生である (AはBの学生である)

5. AはBの教授である (AはBの教授である)

6. AはBの上司である (AはBの上司である)

7. AはBの部下である (AはBの部下である)

8. AはBの同僚である (AはBの同僚である)

9. AはBの顧客である (AはBの顧客である)

10. AはBの従業員である (AはBの従業員である)

11. AはBのパートナーである (AはBのパートナーである)

知識表現

知識表現とは、知識を形式的に表現する方法のことである。例えば、
「鳥は動物である」という文は、鳥と動物という概念の間に意味的関係を示している。

知識表現の種類: 1. 意味的関係 (semantic relationship) 2. 知識の構造 (knowledge structure) 3. 知識の推論 (knowledge inference)

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歌德(Goethe)の『浮城物語』は、1808年に出版された。この物語は、1807年に出版された『浮城物語』の続編である。この物語は、1807年に出版された『浮城物語』の続編である。この物語は、1807年に出版された『浮城物語』の続編である。

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アーサー・ラブジョイ(Arthur O. Lovejoy)の「大連鎖の法則」(Great Chain of Being)の論議は、
 12 論議の中心となる。この法則は、自然界のあらゆる現象が、
 (deductive logic)の論議の中心となる。この法則は、自然界のあらゆる現象が、
 13 論議の中心となる。この法則は、自然界のあらゆる現象が、
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Charles Darwin, *On the Origin of Species*, (Origin of Species, 1859)

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16 Bertrand Russell

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约翰·冯·诺伊曼(Johnn Von Neumann)¹⁷ 的博弈论(Theory of Garmes)指出,在
 任何情况下,如果一方选择合作,而另一方选择背叛,那么背叛方将获得最大的利益。

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Appleman, W. W. Norton, 1970) ←

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9. Lucretius, *On the Nature of the Universe* (Baltimore: Penguin Books) 1924: 110-111 (Titus Lucretius Carus, B.C.98-55), *De Rerum Natura*, *Book 2*, *Lines 110-111*: *De Rerum Natura*, *Book 2*, *Lines 110-111* [↩](#)

¹⁰. 〇〇:〇〇〇(1822-95), 〇〇〇〇〇〇〇〇〇〇, 〇〇〇〇〇〇〇〇〇〇 ↩

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