

## 2.3.4.1.1 Data Cognitive Layer

[Return to Cognitive Taxonomy of Data](#)

The Data Cognitive Layer is the lowest level of the Cognitive Model. See: [Appendix I: Cognitive Model](#)

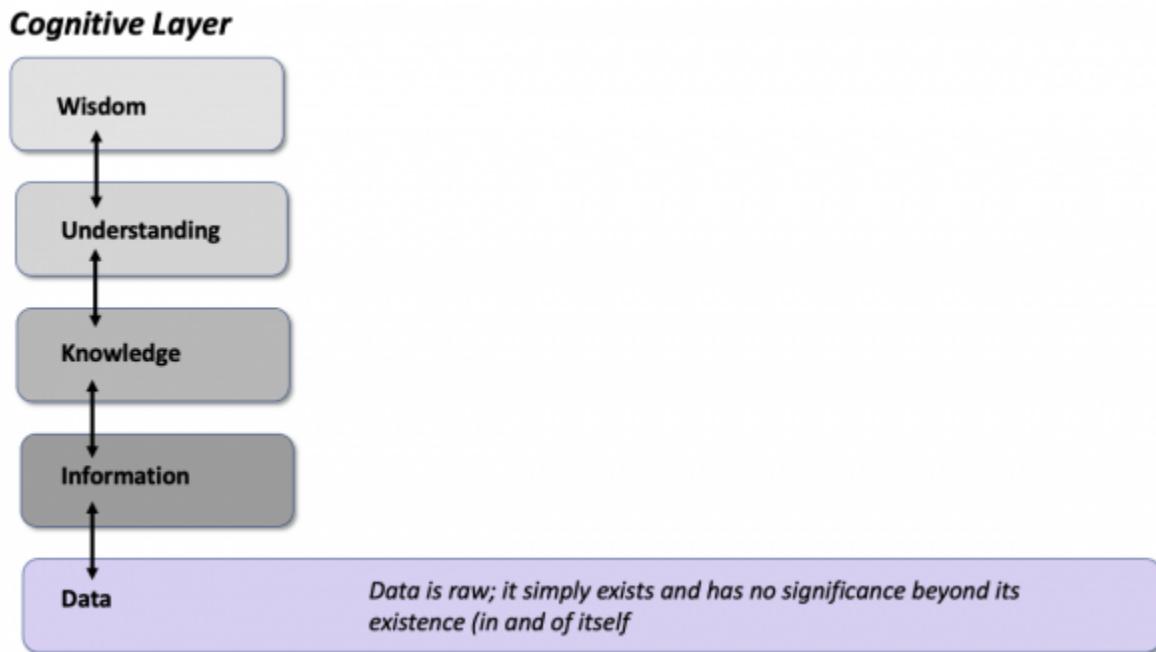


Figure 1: The Data Layer of the Cognitive Model

Yingxu Wang <sup>1)</sup> describes **Data** as the most fundamental cognitive objects in the brain that link real-world entities and their attributes to mental abstractions via sensors and quantities. Wang goes on to define **Data** as an abstract representation of the quantity of real-world entities or abstract objects according to specific quantification scales.

Stavros and Albrant <sup>2)</sup> define **Data** as a raw concept; it simply exists and has no significance beyond its existence (in and of itself). It is the basis upon which **Information** concepts are built.

<sup>1)</sup>

Yingxu Wang, Formal Cognitive Models of Data, Information, Knowledge, and Intelligence, WSEAS Transactions on Computers Accessed: 29 September 2021, E-ISSN: 2224-287, Column 14, 2015, Page 770-781 <http://www.wseas.us/journal/pdf/computers/2015/b5072610-109.pdf>

<sup>2)</sup>

Stavros, Robert W. and Albrant, Jeremiah; Engineering Governance, SPAWAR, October 9, 2007,

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