

**ZMATH 2016d.00492**

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**What philosophy of mathematical practice can teach argumentation theory about diagrams and pictures.**

Aberdein, Andrew (ed.) et al., The argument of mathematics. Dordrecht: Springer (ISBN 978-94-007-6533-7/hbk; 978-94-007-6534-4/ebook). Logic, Epistemology, and the Unity of Science 30, 239-253 (2013).

The author considers the philosophy of mathematical practice to identify a severe limitation in the attempt to assimilate visual reasoning to verbal reasoning, and by extension to criticize the approach to reasoning that treats all reasoning as if it were verbal reasoning. For his discussion, the author divides his article in the five sections viz 1) Introduction, 2) Mathematics, 3) Diagrams, 4) Icons, 5) Conclusion. Each section is well explained and well informative. The article is very useful to those who are going to study philosophy of mathematics.

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*Classification:* E20

*Keywords:* diagram; icon; inferential action; notation; speech-act; verbal reasoning

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