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19131. *An image is worth a thousand numbers: visual thinking in science.*

For better and for worse, visual thinking has been a recurring theme in the history of scientific thought and has often been applied to the conceptual development of scientific models. On the other hand, visualization has also been used as a practical means of resolving problems tied to difficult or intractable computations. Non-mathematicians such as Antonio Gaudí and Etienne-Jules Marey made use of visual tools to study what were essentially mathematical problems. Other examples from astronomy, architecture, and physiology will be presented. (Received September 13, 2010)