



Mathematics and Maple

A two-component adhesive
for learning, teaching, and research

v./ Steen Markvorsen, DTU Compute

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Intuition

"Never have we had such a cornucopia of ways to generate intuition. The challenge is to learn how to harness them, how to develop and how to transmit the necessary theory and practice. "

D. J. Bailey and J. M. Borwein,
Exploratory Experimentation and Computation,
Notices of the AMS, 2011



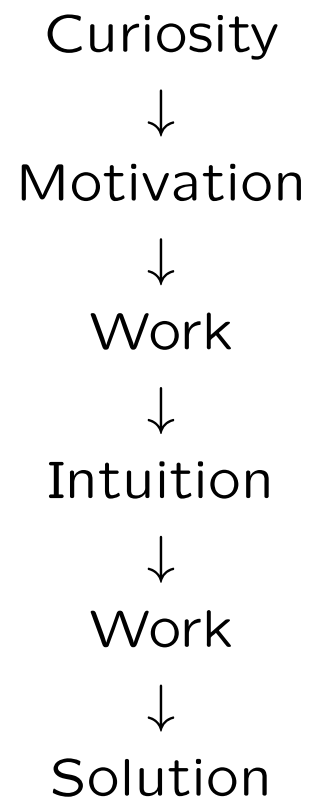
Rigor

"The object of mathematical rigor is to sanction and legitimize the conquests of intuition, and there was never any other object for it."

J. Hadamard, 1928



Flow



Pleasure

"The greatest pleasure in life is
the pleasure of finding things out."

R. P. Feynman, 1985



Examples

- ⊙ A mathematical puzzle a'la Martin Gardner
- ⊙ The lonely runner problem
- ⊙ An open signal game project
- ⊙ An open – yet graded – question
- ⊙ A communication template
- ⊙ Animations inside

Animations inside

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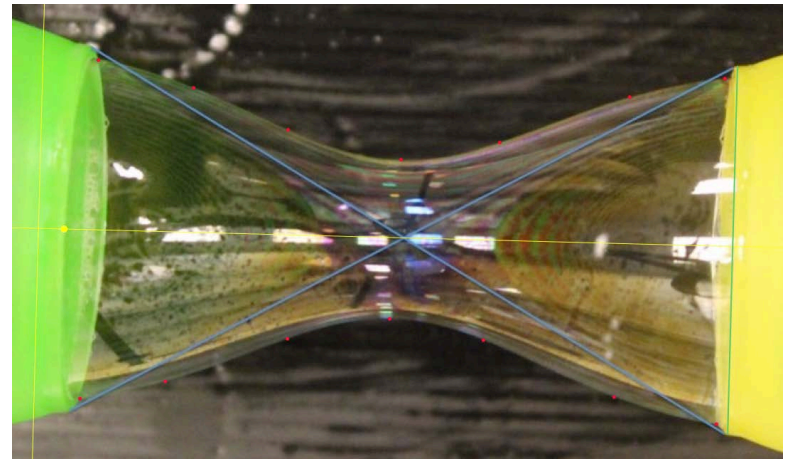
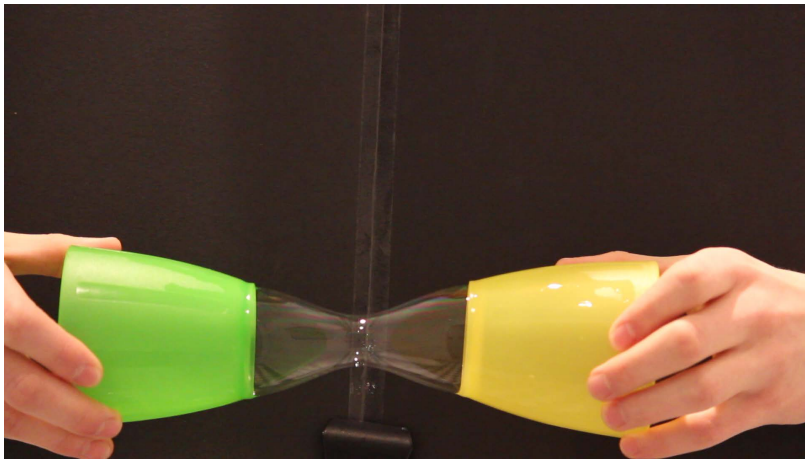
Animations inside

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Photos by Mikkel Frøland

Animations inside?

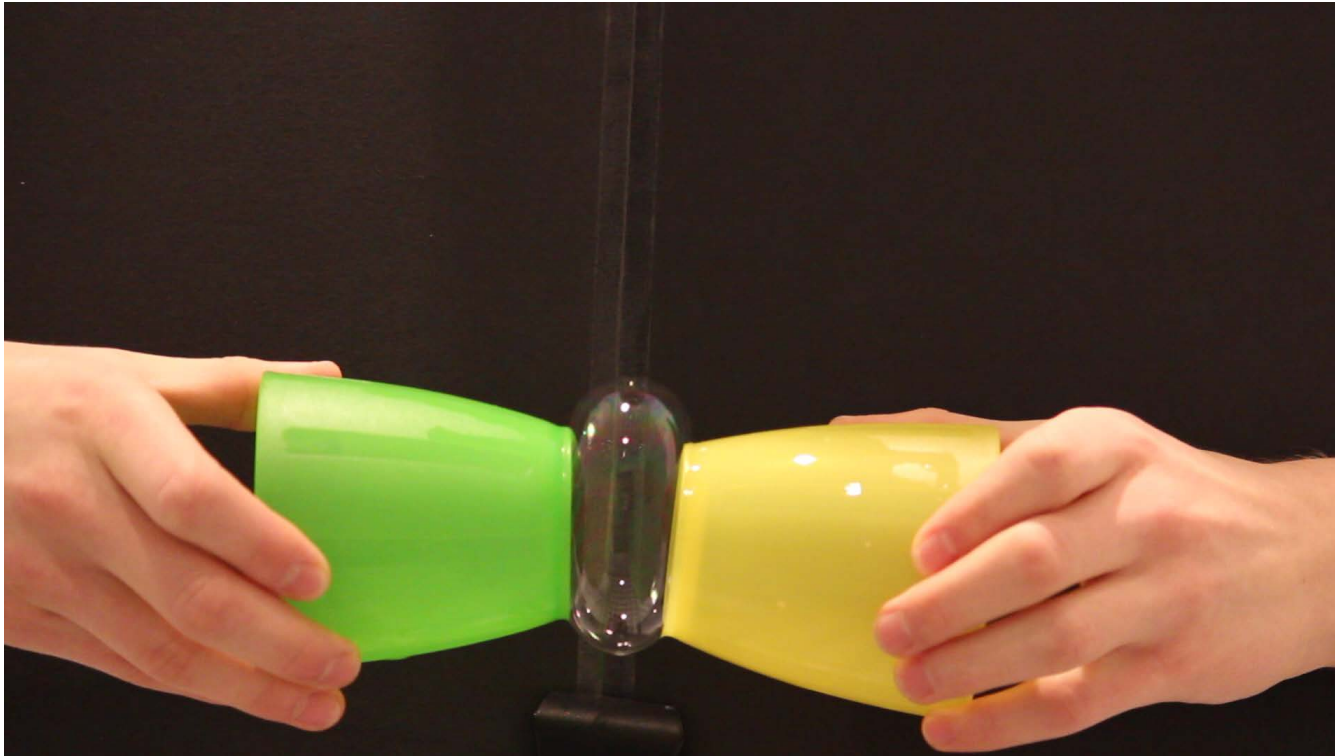


Photo by Mikkel Frøland

Animations inside?



Photo by Mikael Schlosser

Thank you for your attention!

Comments, questions?

