

- Doyle-McMullen, solving the quintic (2000)
- Representation of the proof of the fundamental theorem of algebra with the syrup spreading out over the complex plane
- Skewes' number is the bound for when first  $\pi(x) < li(x) \ll \text{wowers} \ll \text{Graham's number}$  (party theorem on  $n$ -dim cube for 4 friends/enemies on a hyperplane. Note that  $12 < n < G$ )
- Busy beaver function:  $B(n)$  = largest possible output of a rogue but mortal computer program of length  $n$
- Precision is required –  $N$  = [the smallest positive integer not definable in fewer than twelve words]
- Solutions of crises: type theory (do not define  $A$  in terms of  $A$ ), intuitionism (deal with constructable things), formalism (agree on axioms, and only admit conclusions from them)
- Edward Nelson: length of the shortest proof such that  $0 = 1$ ?
- Radically elementary theory of probability