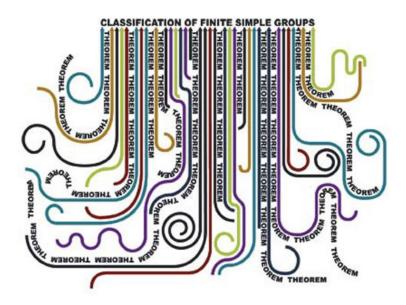


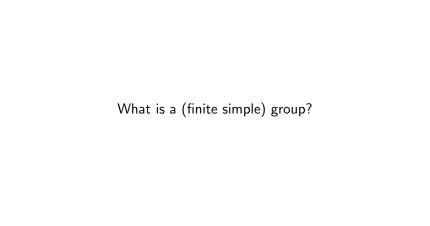
The greatest mathematical achievement of the 20th century

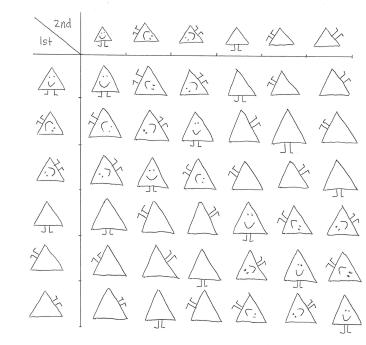
great (grāt), adj. 1. of an extent, amount, or intensity considerably above the normal or average; very large and imposing.



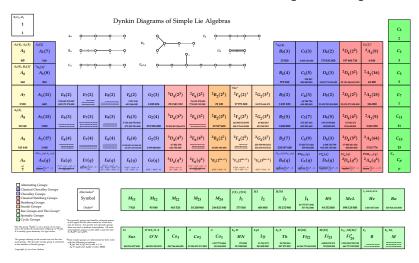
First-generation proof of CFSG:

- ▶ 10,000–15,000 journal pages
 - ▶ spread across some 500 separate articles, written by more than 100 mathematicians from around the world
- ▶ most work done between 1950 and early 1980s
- Second-generation proof of CFSG (currently underway):
- ▶ shorter, more direct proof of 3,000–4,000 pages
 - volume 1 published in 1994
 - volume 6 published in 2005 (most recent volume)
 - ▶ 12 volumes anticipated





The Periodic Table Of Finite Simple Groups



The Monster, a.k.a., the Friendly Giant

which is approximately $8 \cdot 10^{53}$.

The largest of all the sporadic finite simple groups, it has order $2^{46} \cdot 3^{20} \cdot 5^9 \cdot 7^6 \cdot 11^2 \cdot 13^3 \cdot 17 \cdot 19 \cdot 23 \cdot 29 \cdot 31 \cdot 41 \cdot 47 \cdot 59 \cdot 71$ or 808017424794512875886459904961710757005754368000000000