

mature. How animal patterns dev tion for biologists and mathemat pattern-related chemicals inside collection of identical cells—wh inimal with spots or stripes (ar tions to make the surprising pr ngelfish move along the body.

begins life brown with white of bright green and black dot from black to green and bac automaton, an abstract mod A black dot is more likely t dots than when it's among surrounded by an average





The boundaries of a states legislative and congressional districts are most often controlled by the party in power in that state at the time of redistricting. As you might expect, the party does its best to create districts that maximize its own power. Creating bizarrely shaped districts that give a party an unfair advantage, however, it called burious commandation. Machinesis a party an unfair advantage. lowever, is called partison gerrymondering. Mathematicians are working with political however, is called partisan gerymondering. Mathematicians are working with politic scientists to incorporate geometry and computing power to create millions of redistricting schemes for a state and assign measures of irregularity to each scheme that we provide redistricting plans can be compared with the computering series dip substess and the highly unfair plans will stand out and be rejected.

As a trict may pok strange but still be deemed legal if its defenders successfully

results from legitimate principles, such as geographical consid-nents of the Voting Rights Act. Ideally, mathematical metrics the two-party difference in "wasted votes" to see whether ed an advantage for itself. A federal court recently rejected a See pans. In general provis

mandering has occurred in a particular plan can involve many metrics and experts from several fields, including mathematics. Relying on these collaborations are several fields. these collaboratively generated ideas can not only help courts decide when redistricting is illegal but also

the services in the first place

For M re Information:

"He et Quantify (and Fight)

Ges m dering." Erica

Kla and Duanta Magazine,

Ap. 7, 4, 7, luantify (and Fight) lering," Erica

W an ergyn the que ts

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