

You Can Squeeze 2.2 Petabytes of Data Into One Gram of DNA

Jamie Condliffe

Scientists from the European Bioinformatic data in to synthetic DNA, and now they've achieved something rebarderes ly amazing: they ca store 2.2 petabytes of information in a sin SCIENCE 2.315 accuracy. You Can Squeeze 2.2 Petabytes of Data Into One Gram of DNA

The researchers have encoded an MP3 of along with all 154 of Shakespeare's sonnets, into a string of DNA. Scaled up, that represents storage density of 2.2 petabytes per gram. V achieve that whilst also implementing error allowing them to retrieve content with 100 per cent accuracy.

SCIENCE G Scientists Restart Wigth an Deadly ion The technique uses the four bases of DNAdensity. It is, understandably, still incredibly expensive: creating synthetic DNA and then sequencing it to read off the data is getting far easier but it's still a time- and cash consumi 6.367

business. Keep hold of your hard drives for solution in the future. [Nature via New Sci

Image by Tacu Alexei/Shutterstock

iscussions in response to Jamie Condliffe eply

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RUMORS

2.934

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min the complex chains of molecules,

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you've got 4 base pair to work with, then why would you limit yourself to binary coding? This uld volutionize computing, not because of storage density like these imagination-less scientists for æ. t because this could finally break computer science free of its hamstrung object oriented comp ng del and finally lead to a probabilistic subjective oriented encoding trianry computing model. 1t uld be a very cool and scary future. With binary you get on-off gates. With trinary you might 1 able get on-off-maybe gates.



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vhite66 and 1 more Reply 18 minutes ago Il be right with you, I just have to feed my computer."



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w'd they get the rights to use the dream speech? I mean, people try to put it up on youtube and ts taken down for "copyright" issues (bullshit).



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id how many grams of DNA are in my body? What type of RAID arrays do you think I could ke ike?

R

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es this mean hackers and scriptkiddies will have to graduate to using rhinoviruses?



2

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ello, Microsoft Helpdesk? Yes, I've saved my Word document into the new DNA fromat on n suse, but then it gave birth to these horrible tiny demons from hell, with tiny horns and wings all. you think my computer got a virus?"



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JA has nice error correction once it's read it'l check its self



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