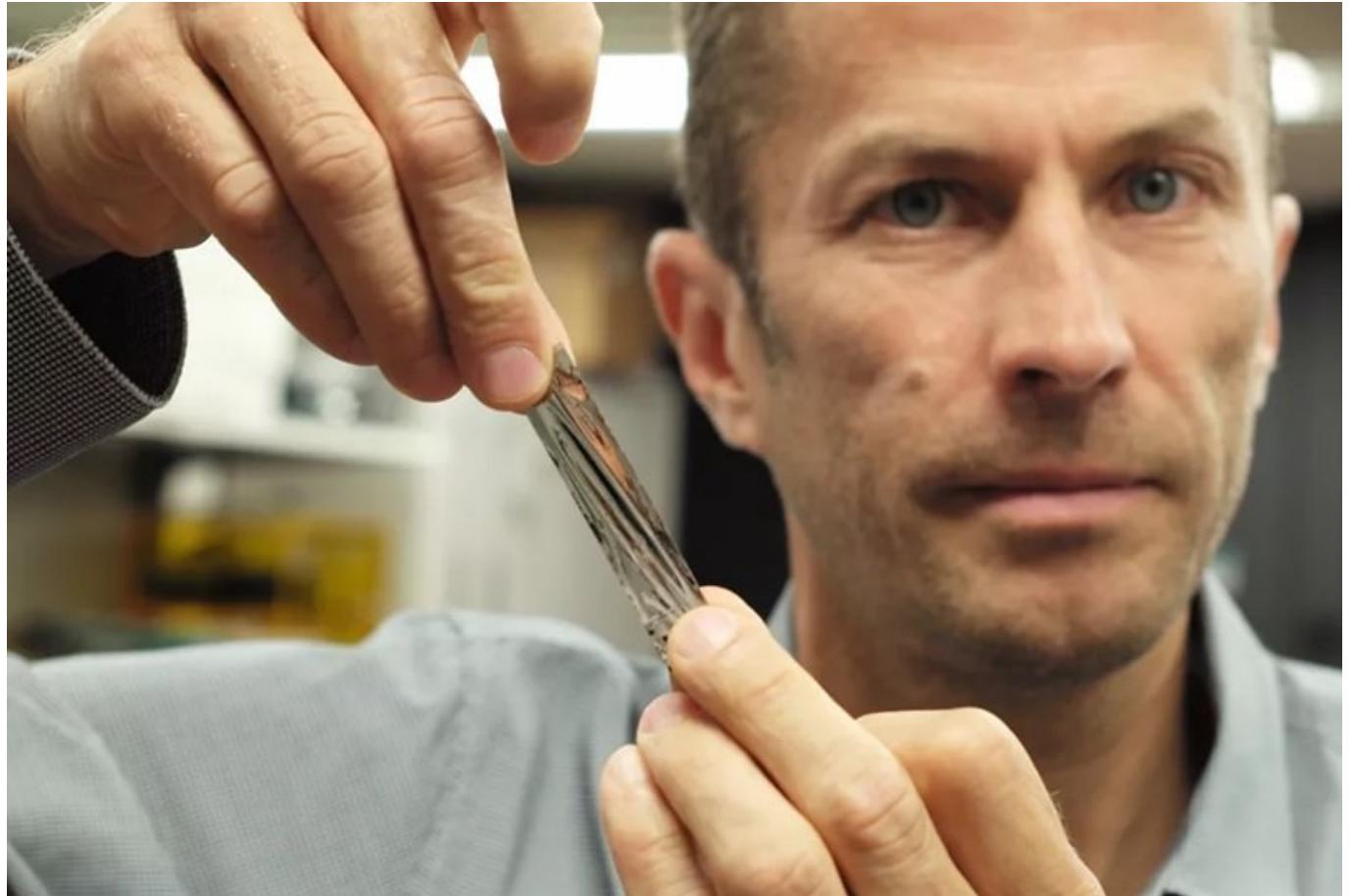


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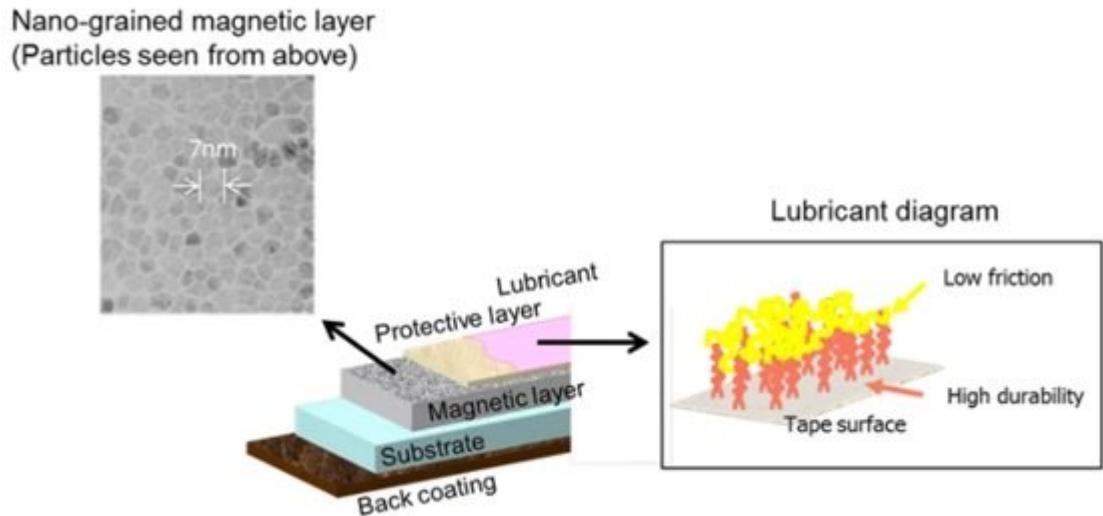
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A horizontal bar composed of a sequence of small white squares. The sequence starts with a group of five white squares, followed by a single red square, and then another group of five white squares.

DNA

IBM's Tale of the Tape

More than 60 years of tape innovation



	2006	2010	2014	2015	2017
Aerial Density (bits per sq inch)	6.67 Billion	29.5 Billion	85.9 Billion	123 Billion	201 Billion
Cartridge Capacity (Terabytes)	8	35	154	220	330
# of Books Stored	8 Million	35 Million	154 Million	220 Million	330 Million
Track Width	1.5 μm	0.45 μm	0.177 μm	0.140 μm	103 nm
Linear Density (bits per inch)	400'000	518'000	600'000	680'000	818'000
Tape Material	Barium Ferrite	Barium Ferrite	Barium Ferrite	Barium Ferrite	Sputtered Media
Tape Thickness (micrometers)	6.1	5.9	4.3	4.3	4.7
Tape Length (meters)	890	917	1255	1255	1098

#5thtaperecord

IBM

IBM's tape technology has been at the forefront of data storage innovation for over 60 years. From the first magnetic tape cartridge in 1951 to today's advanced sputtered media tape, IBM has consistently pushed the boundaries of what is possible. The company's commitment to research and development has led to numerous milestones, including the world's highest linear density record of 818,000 bits per inch set in 2017. As we look to the future, IBM remains dedicated to advancing tape technology and exploring new applications for this versatile storage medium.

IBM's tape technology



IBM's tape technology

IBM's tape technology

IBM's tape technology has come a long way since its debut in 1951. In 2017, IBM announced a new tape cartridge with a capacity of 330 terabytes, making it the highest-capacity tape cartridge ever produced. This achievement was made possible through the use of sputtered media, which offers higher linear density and improved reliability compared to traditional barium ferrite media. The new cartridge also features a smaller form factor, making it easier to store and transport. IBM's continued investment in tape technology is helping to ensure that this tried-and-true storage medium remains relevant for years to come.

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