

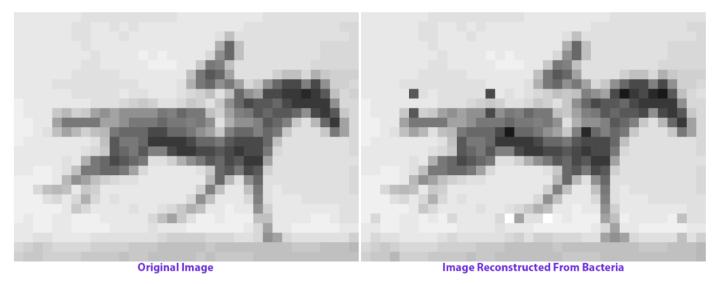
CRISPR - Cas encoding

DNA is an excellent medium

for archiving data

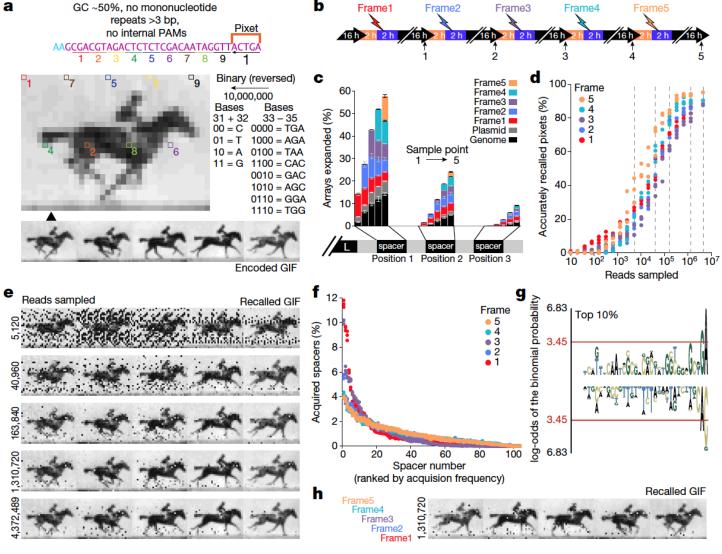
# Harvard scientists pioneer storage of video inside DNA

Transfer of Eadweard Muybridge's galloping horse opens possibility of using living cells to store information

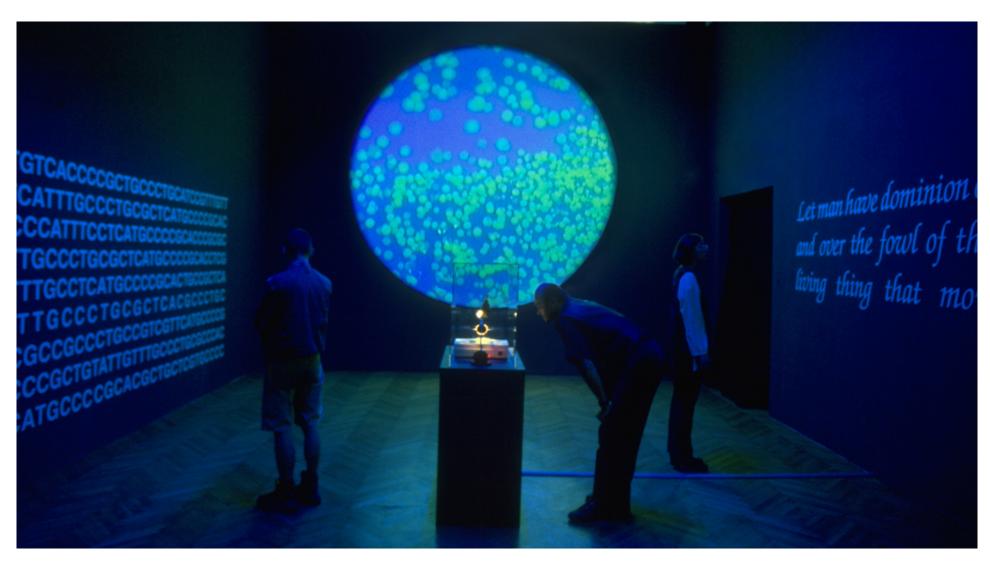


▲ The animation on the left comes from a series of images taken by Eadweard Muybridge of the mare, Annie G, galloping. The frames were encoded in genetic material and stored in living bacteria. The animation on the right shows the frames after multiple generations of bacterial growth, recovered by sequencing the bacterial genomes. Photograph: Seth Shipman

The Guardian



NATURE - 'CRISPR-Cas encoding of a digital movie into the genomes of a population of living bacteria'

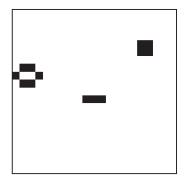


Eduardo Kac - GENESIS

a treasury	a tapestry
it amasses	it affirms
via twists	via tropes
knit among	that atoms
runic gaps	along clad
almost all	string can
regalia to	encrypt an
ornament a	alphabet a
thought as	formula to
lacing can	uplift all
mimic gold	adept airs
cast alloy	long cries
set aglint	set adrift
at auroras	at abysses
a tapestry	a threnody

a threnody it arouses via tempos odic grief using calm lament and erotica to disquiet a pageant as utmost awe might avow epic glory set alight at arcadia a treasury





(After 133 generations.)

"I received confirmation from the laboratory at the University of Calgary that my poetic cipher, gene X-P13, has in fact caused E. coli to fluoresce red in our test-runs—meaning that, when implanted in the genome of this bacterium, my poem (which begins "any style of life/ is prim...") does in fact cause the bacterium to write, in response, its own poem (which begins "the faery is rosy/ of glow...").

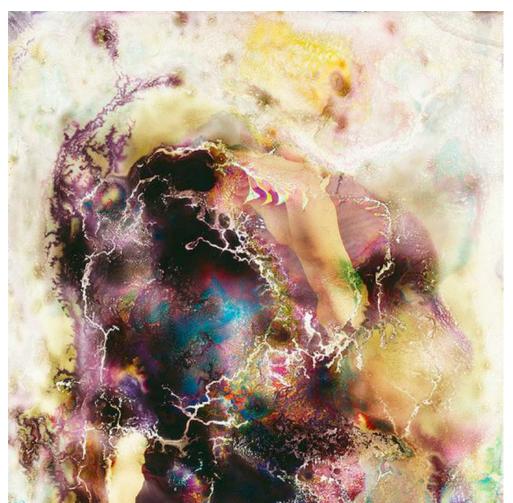
Christian Bok - The Xenotext







Anicka Yi





Seung Hwan Oh



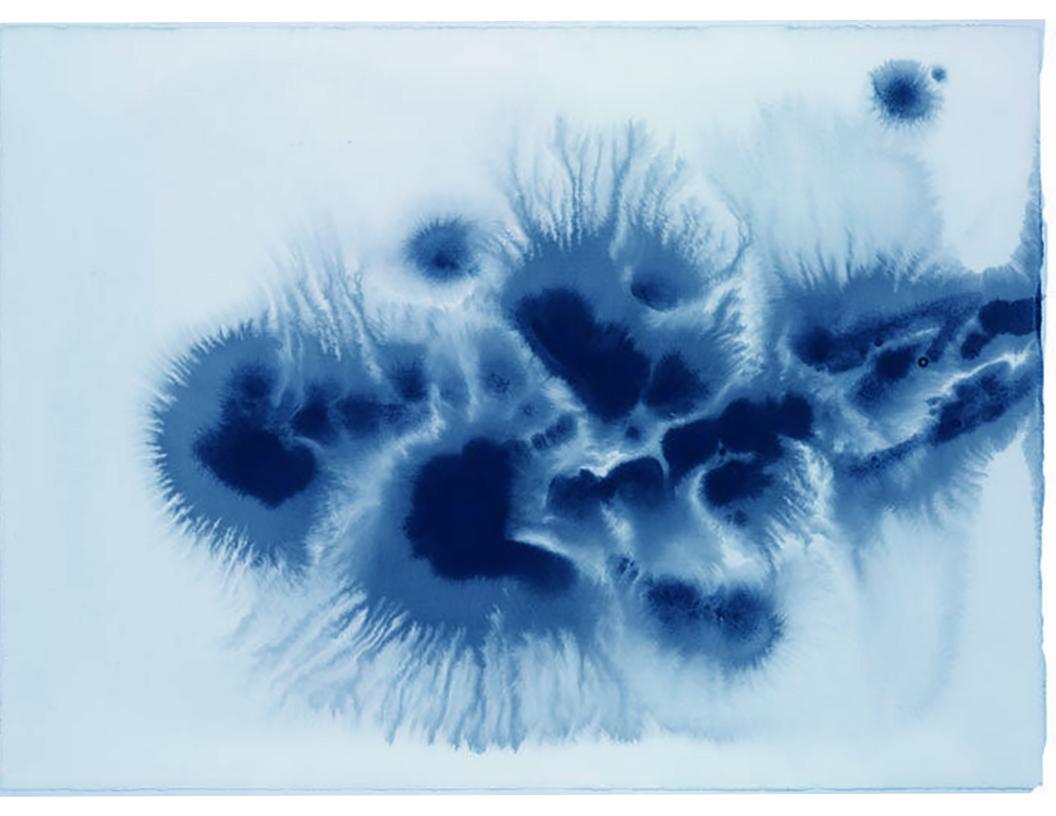
Natasai Audrey Chieza



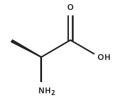
Develop a Cipher language for CRISPR - Cas Encoding

Experiment with medium [Paper, Petri dish, Agar]

Bacteria ink - growth



ENCODED POETICS Modern applicatios vs Natural philosophy



conquerors, having harrowed hell – come home
(no hummingbirds have
copied our opulent hymns)

# natura facut saltur

## the nucletoids

A [is for Adenine][10]

natura

C [is for Cytosine][00-0]

non

**G** [is for Guanine][01]

facit

T [is for Thymine][11-1]

saltur

## natura

1101110 1100001 TGTGACG 1110100 1110101 TAAGTGG 1110010 1100001 TAGGACG

## non

1101110 <sub>TGTG</sub> 1101111 GATT 1101110 TGTC

**facit** 1100110 1100001 TCTGACG **TCGTGAG** 1100011 1101001 TAAC 1110100

# saltur

1110011 1100001 TAGTACG 1101100 1110100 TGAGTGC 1110101 1110010 TAATTCA

'DNA

is

а

metamorphic scriptorium,

where

life

transcribes,

by

chance, whatever

life has SO far

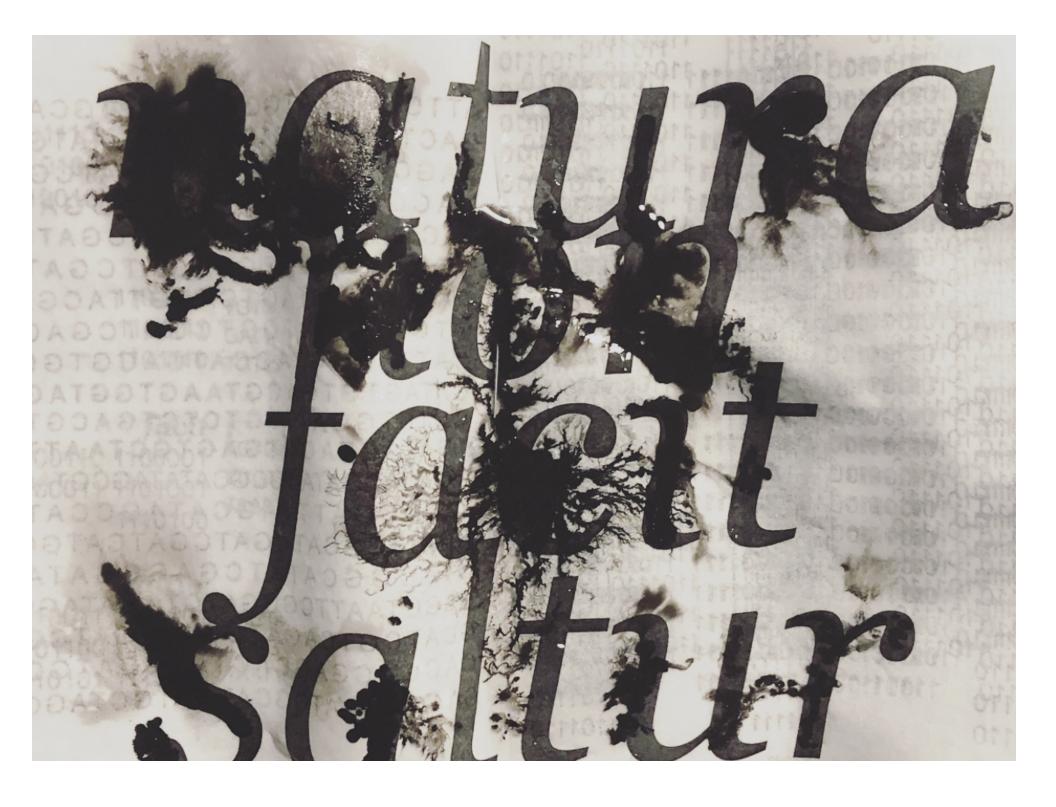
learned about

inmortality'



ATTCGGTAATGCTACGTTTGCATCG GACTGACTGCATGCATGTTG CAGCATCGATCAGTCGAATCGATC GACGCTGACGATCGATCG TACTAGCTAGTACGTAGCGATCGT GCATCCGATCGTAGATCGATCG TACGTACGTAGTCACGTTACGATC GTGACTGCTCGTCGATCGACTC CATTACGGTACCATGACGTGCAT CATAG**TGTGACGTAAGTGGTAGGA** CGTGTGGATTTGTCTCTGACGTCG TGATAGTACGTGAGTGCTAATTCA CATCTACGATACGCGCATATAGCGTACGA TATCCGATTTAGCATAGCCATAC GCATATGCATCGATCGATCATGCAT GTACGGCATATCGAGCGATATC GAGCTAATTCGCGATCTCGATAGCAT GCATCGTCAGATGCATCGATCGTG CACGACGAGCACTACGCATGCTG CAACACGATCGCATGATGCTAGCTG







'The word is now a virus'

William S. Burroughs