

genome walker

final project presentation
artg 2260 - programming basics

antonio solano-román

viral dna / rna

+

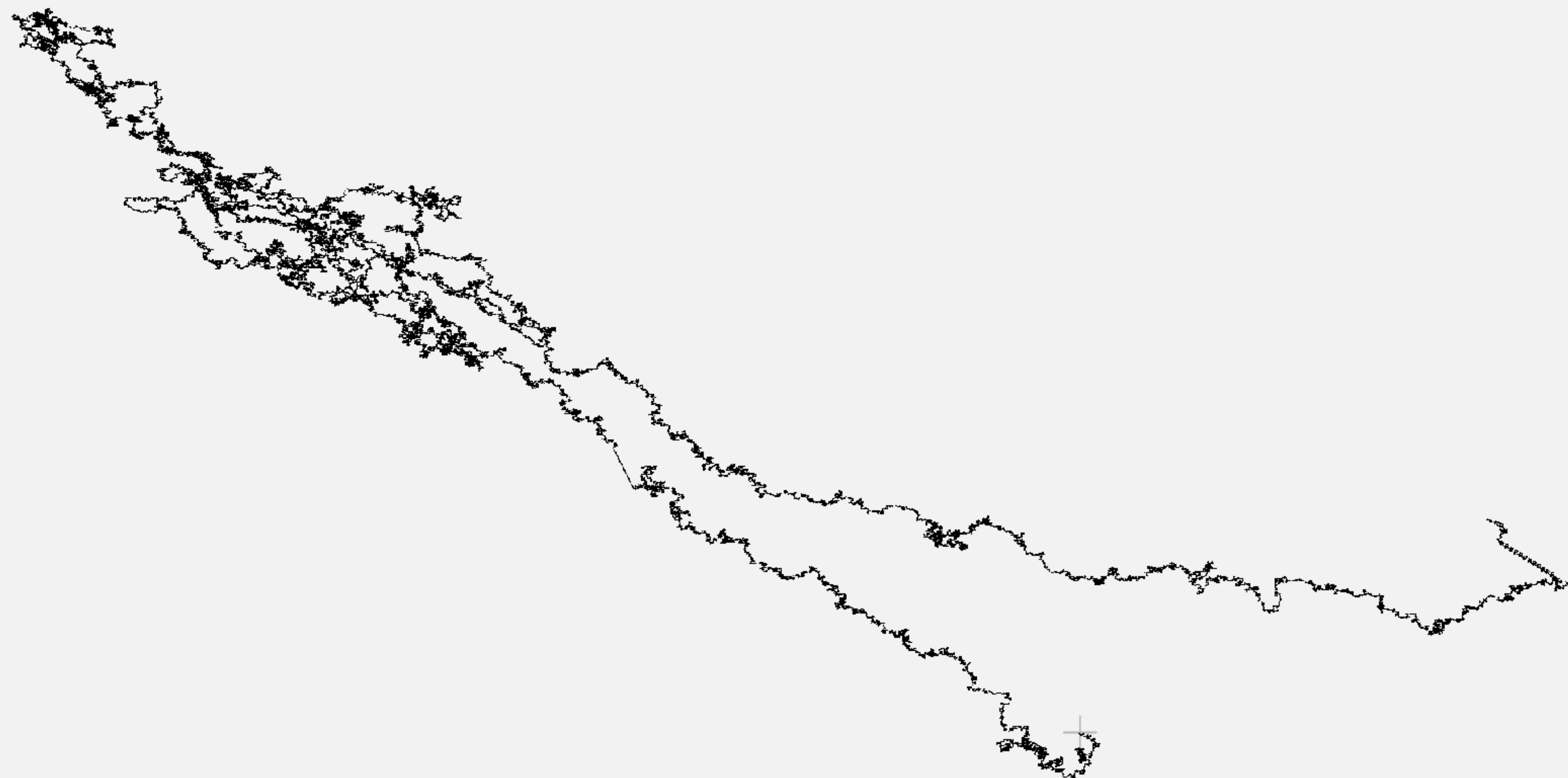
dataviz

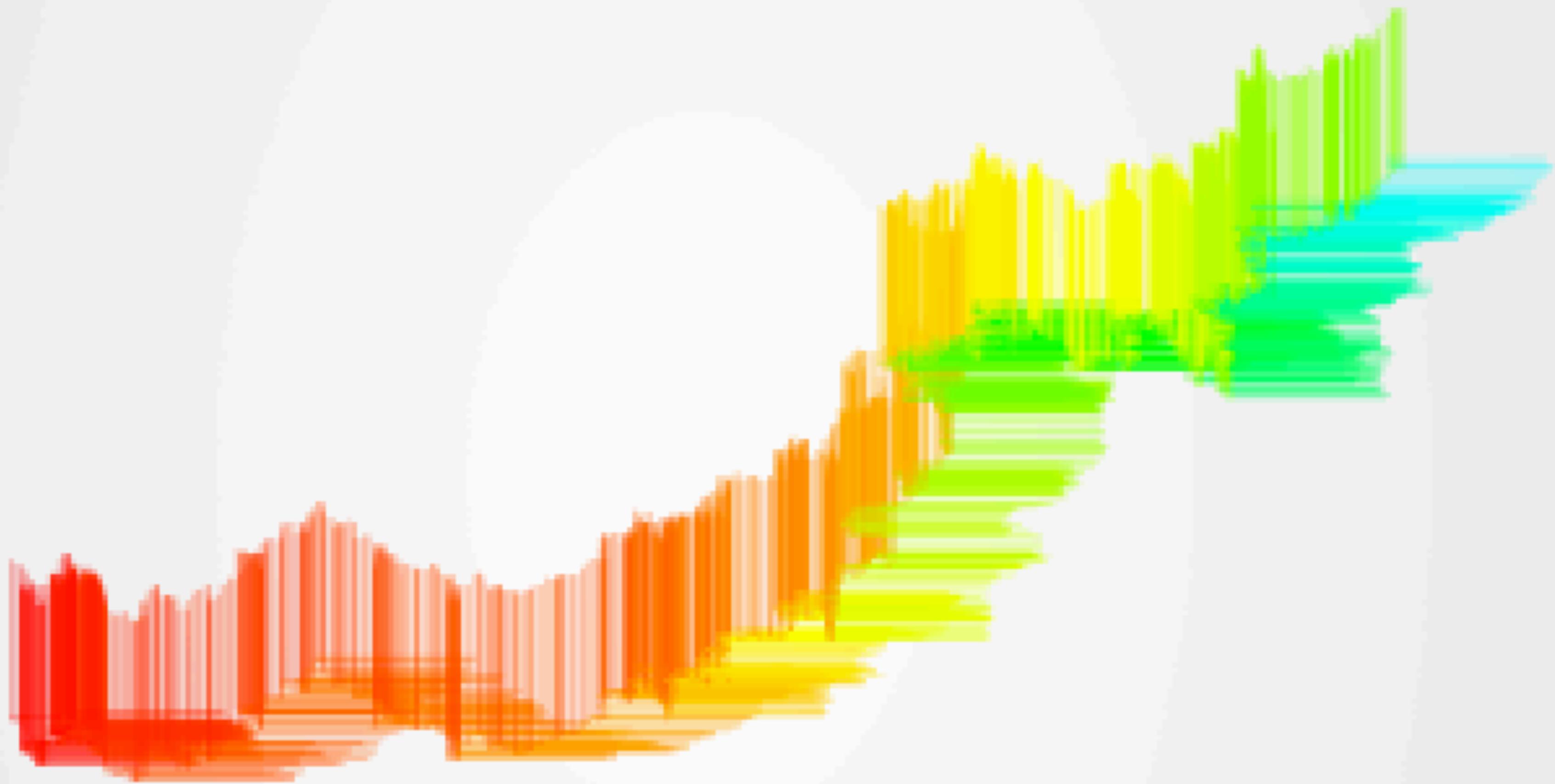
use genetic data as input for
generative design

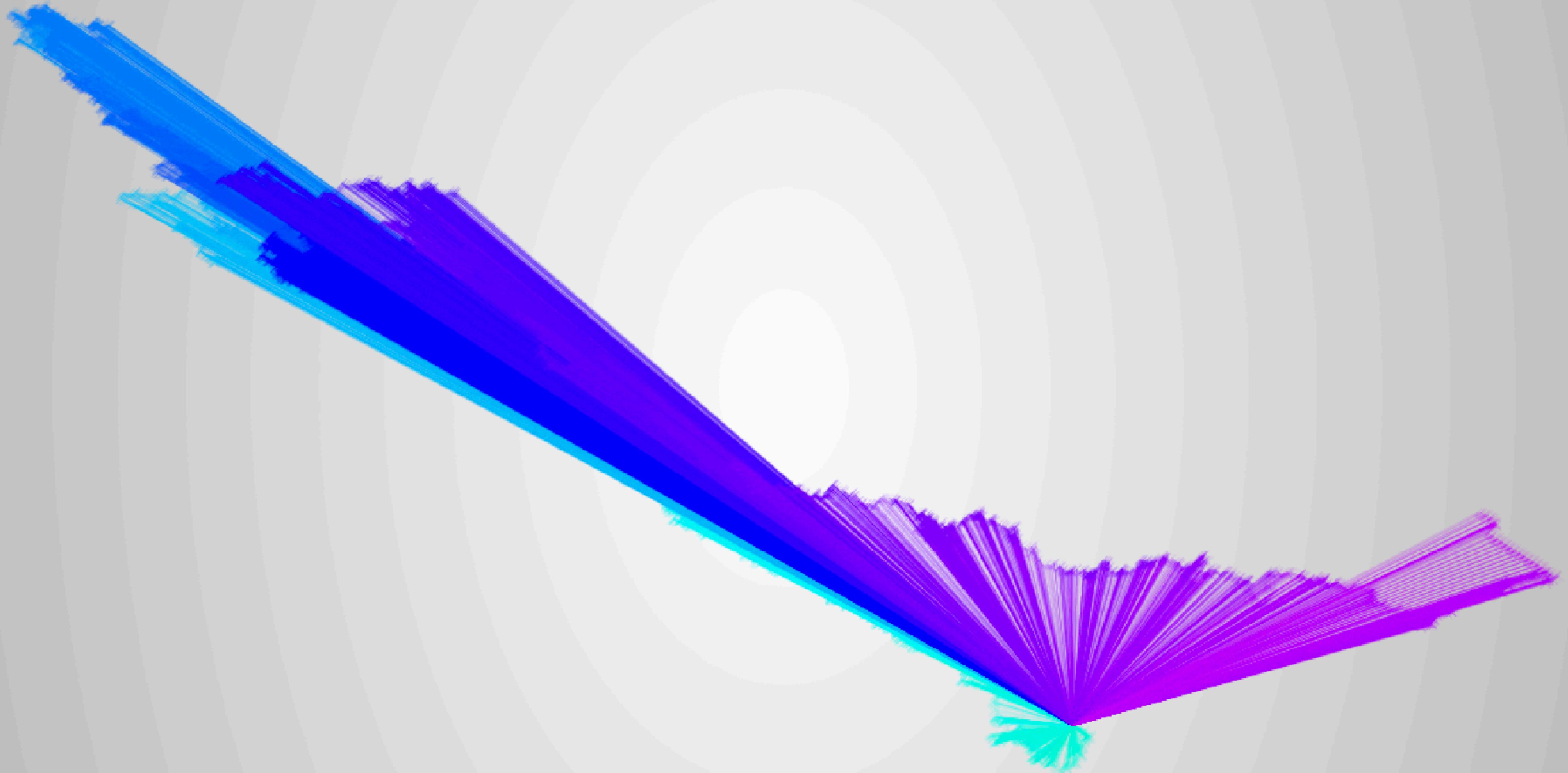
avoid d3.js and a
“computer graphics” look

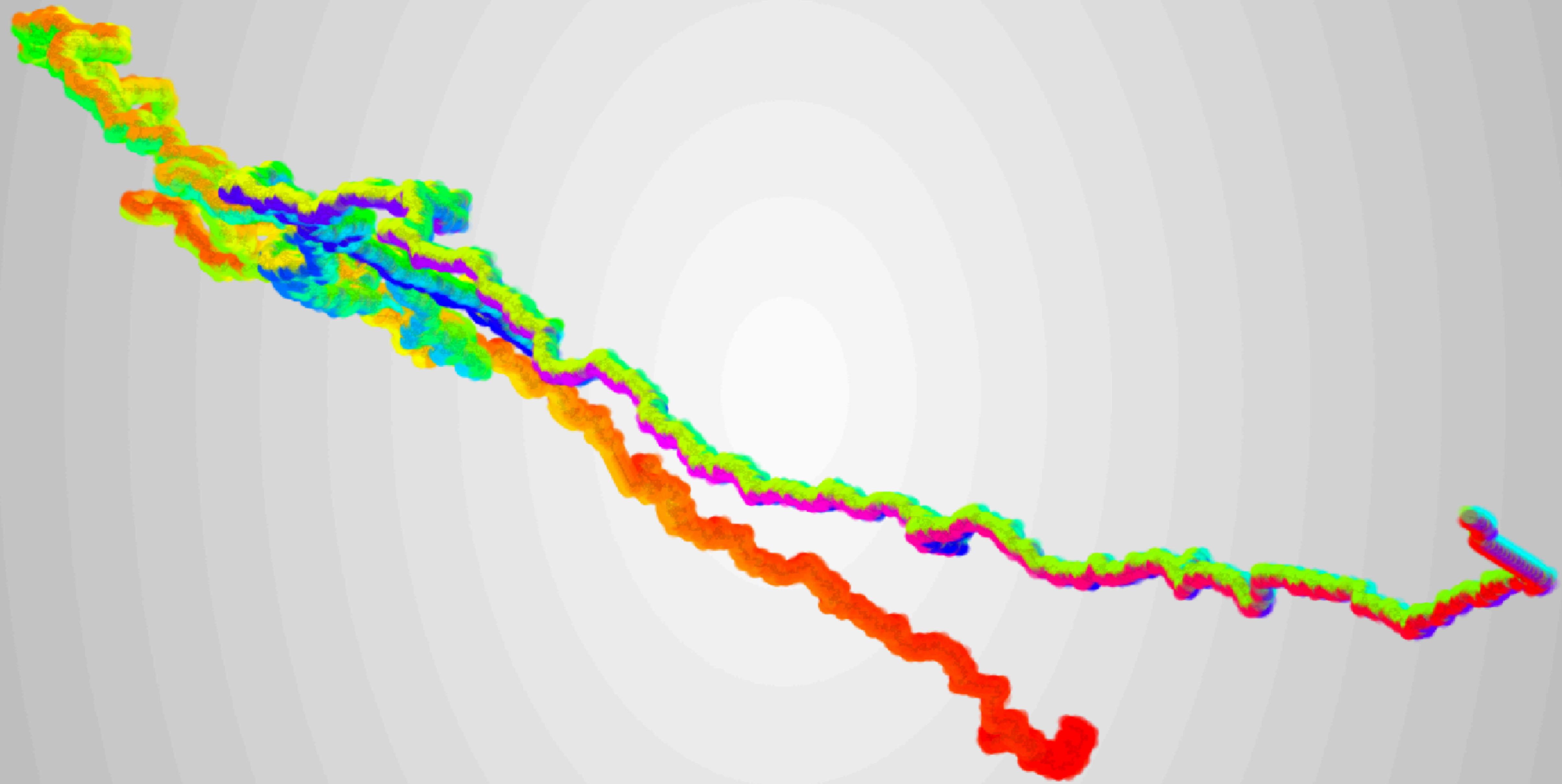
[lots of]

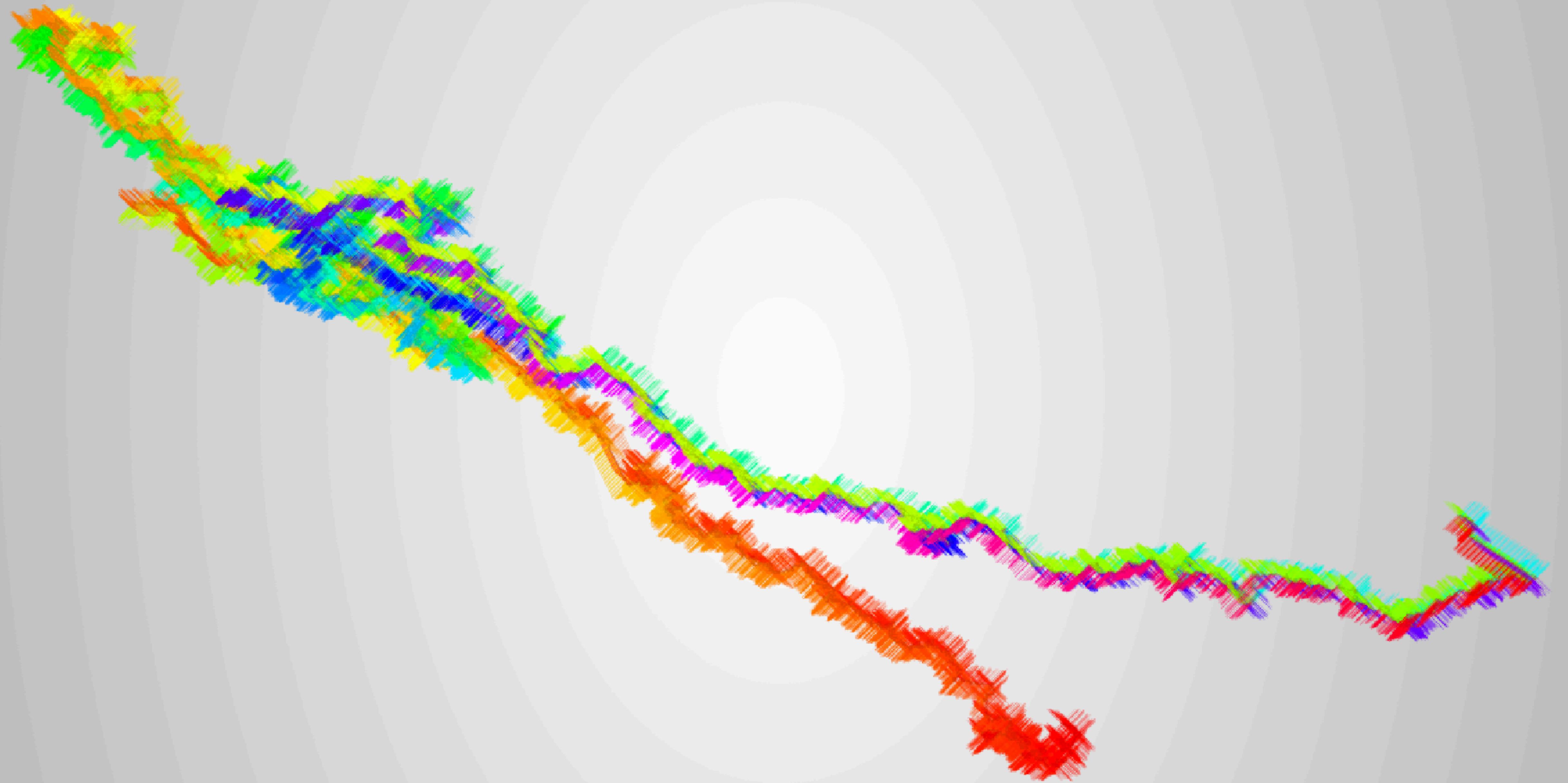
As, Ts, Cs and Gs

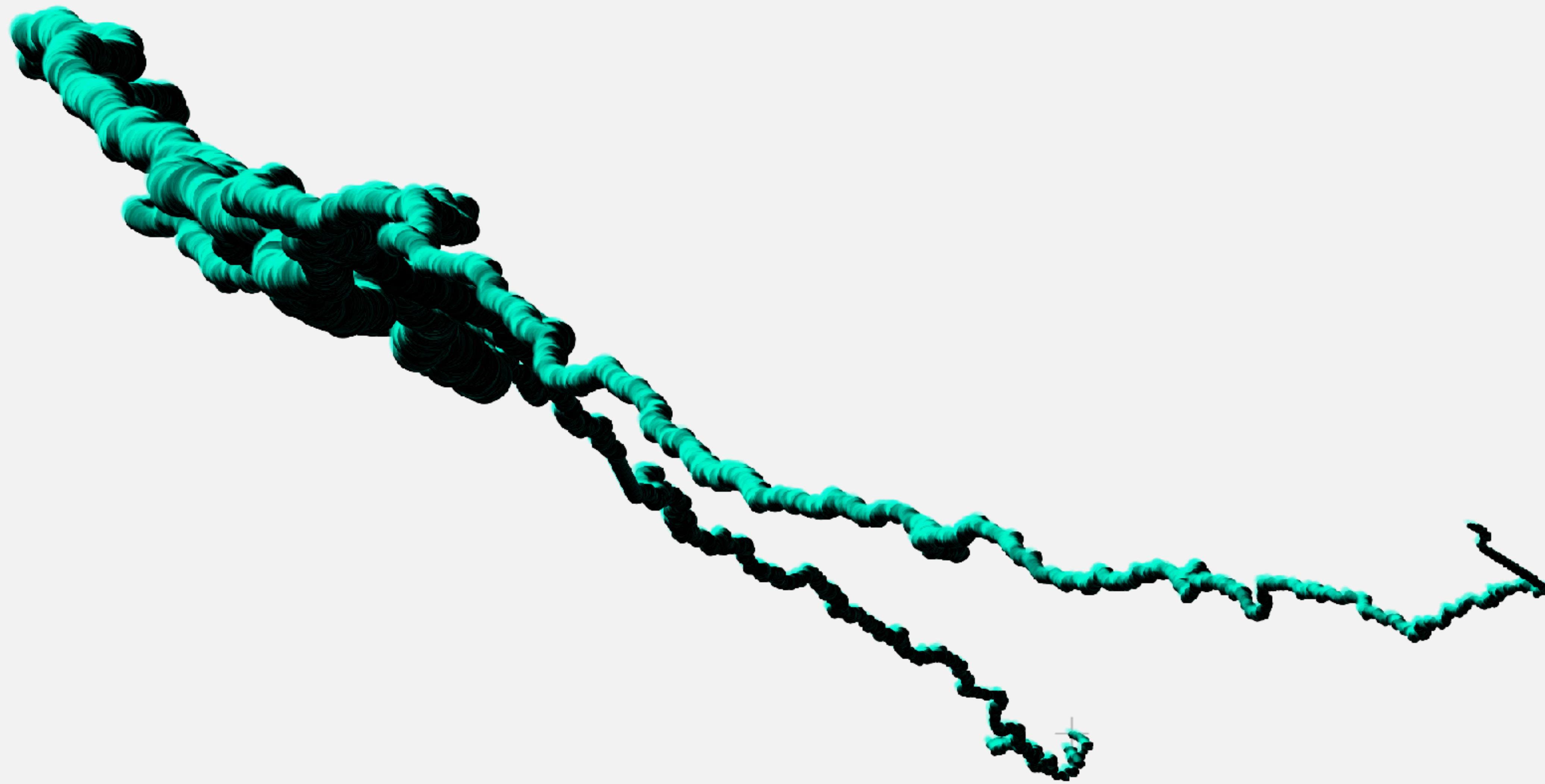


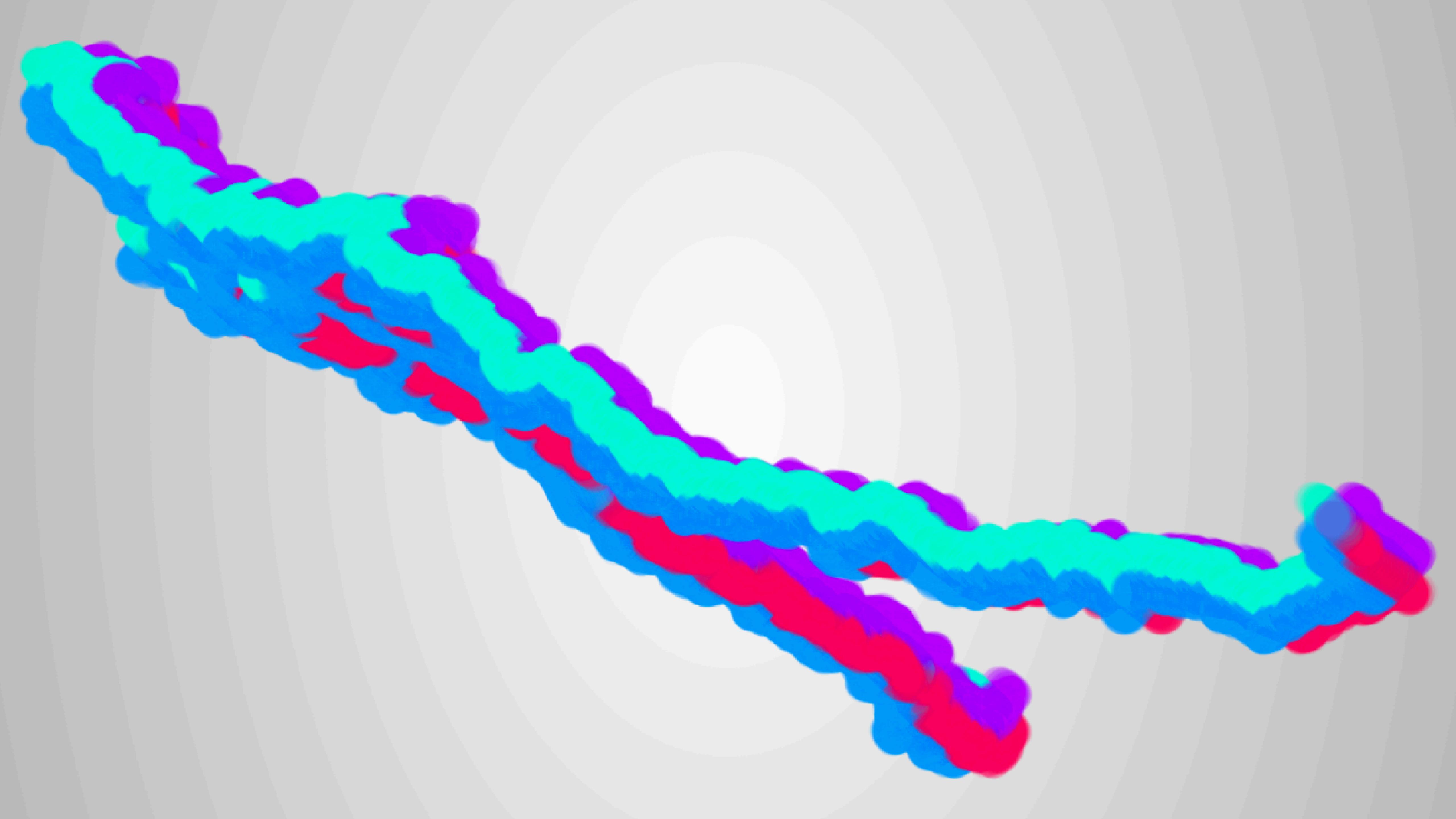




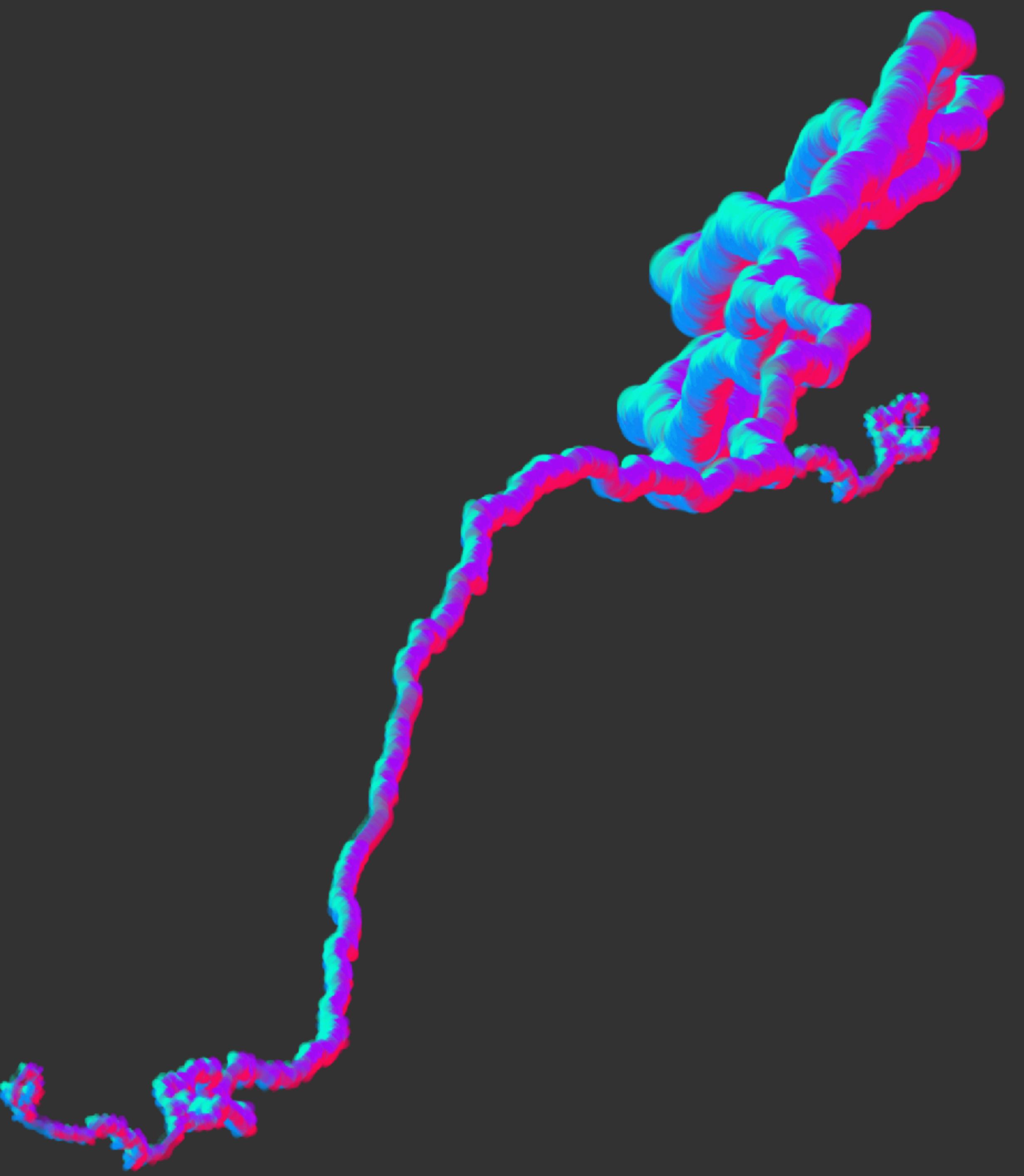




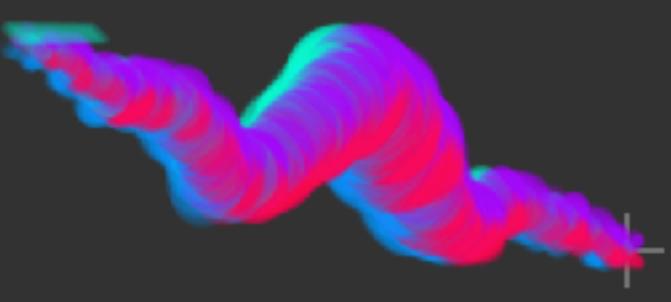




| Category | displayName | Family |
|------------------------------------|--|---|
| Single-Stranded Positive-Sense RNA | "Norwalk" "SARS Coronavirus" "Zika" "Dengue" "Hepatitis E" "Polio" "Rotavirus A" | Caliciviridae Coronaviridae Flaviviridae Flaviviridae Hepeviridae Picornaviridae Reoviridae |
| Double-Stranded RNA | | |
| Single-Stranded Negative-Sense RNA | "Mumps" "Ebola" "Marburg" "Smallpox" "Myxoma Virus" "Type 1 Herpes" "African Swine Fever" | Paramyxoviridae Filoviridae Filoviridae Poxviridae Poxviridae Herpesviridae Asfarviridae |
| Double-Stranded DNA | "Enterobacteria phage RB43" "Invertebrate iridescent virus 6" "Koi Herpes Virus 3" "Acanthamoeba polyphaga mimivirus" | Tevenvirinae Betairidovirinae Alloherpesviridae Mimiviridae |



Koi Herpes Virus 3



Hepatitis E

broke the programming patterns of d3

learned to work with primitives

used data for non-analytical purposes

tried to elicit more visceral emotions in the viewer

try more viruses

make a decent collection and print them

experiment with other sequences (bacteria, proteins)

thank you!