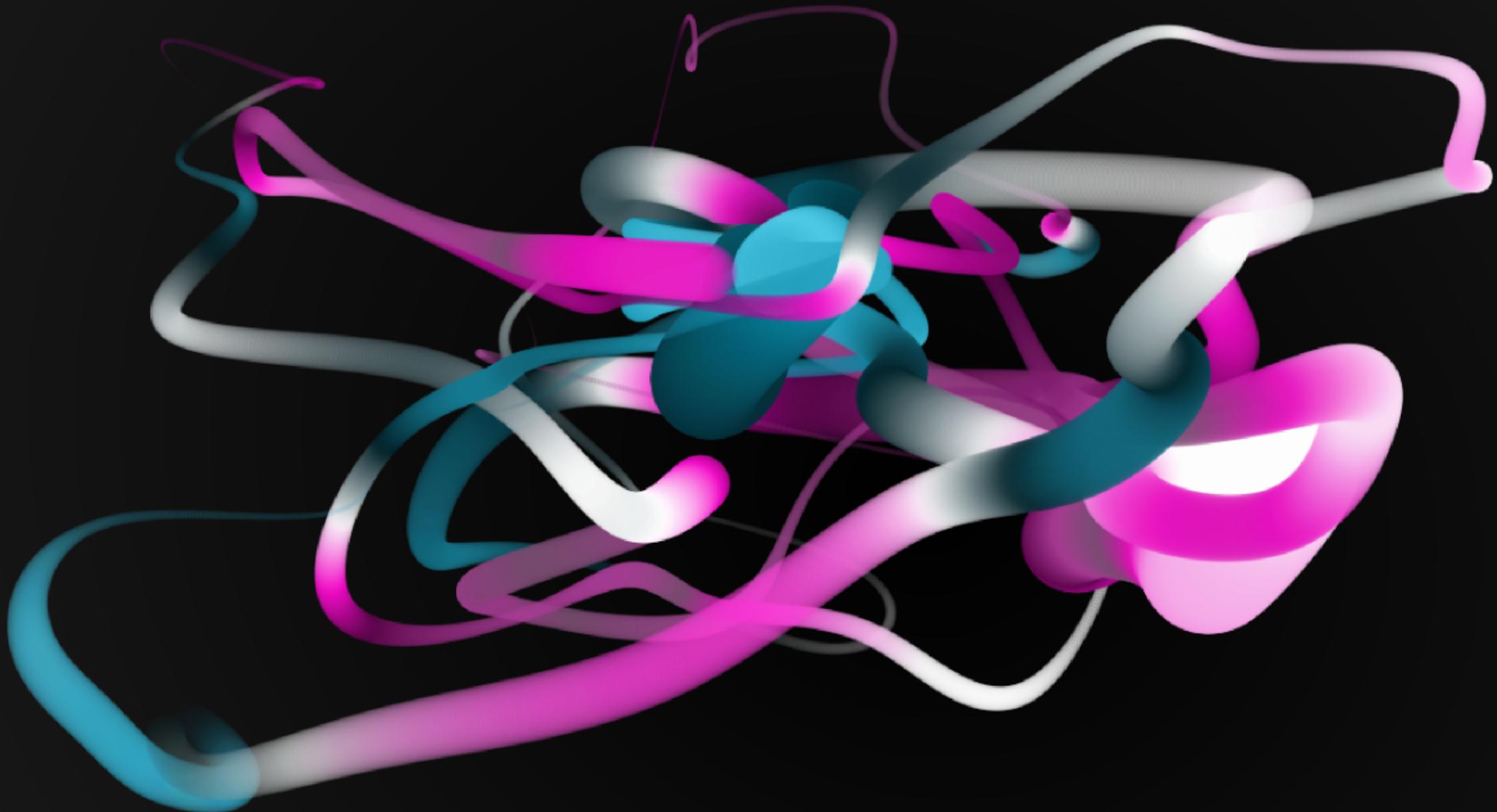
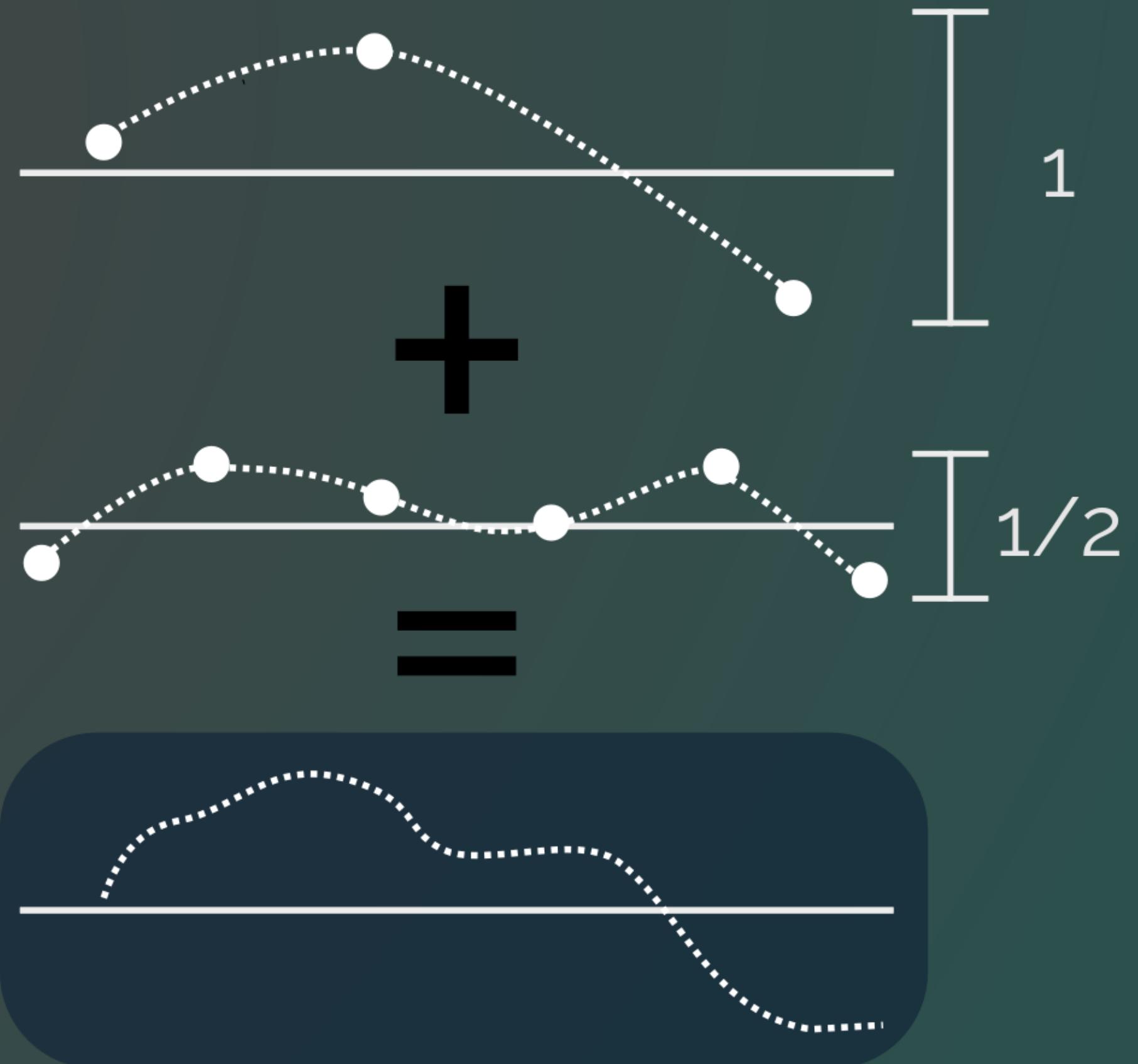


Generative art in **Clojure**



Perlin Noise

- Random point
- Cubic spline



Perlin

- Random
- Cumulative

```
(defn get-perlin-func [freq levels]
  "Return a function, valid over domain [0,1] which produces Perlin noise."
  (let [c (expt-list 2 levels)
        frequencies (map (partial * freq) c)
        amplitudes (map reciprocal c)]
    (->> [frequencies amplitudes]
          (apply map rands-with-amplitude)
          (map #(interpolate-parametric % :cubic)))
    (apply sum-funcs))))
```

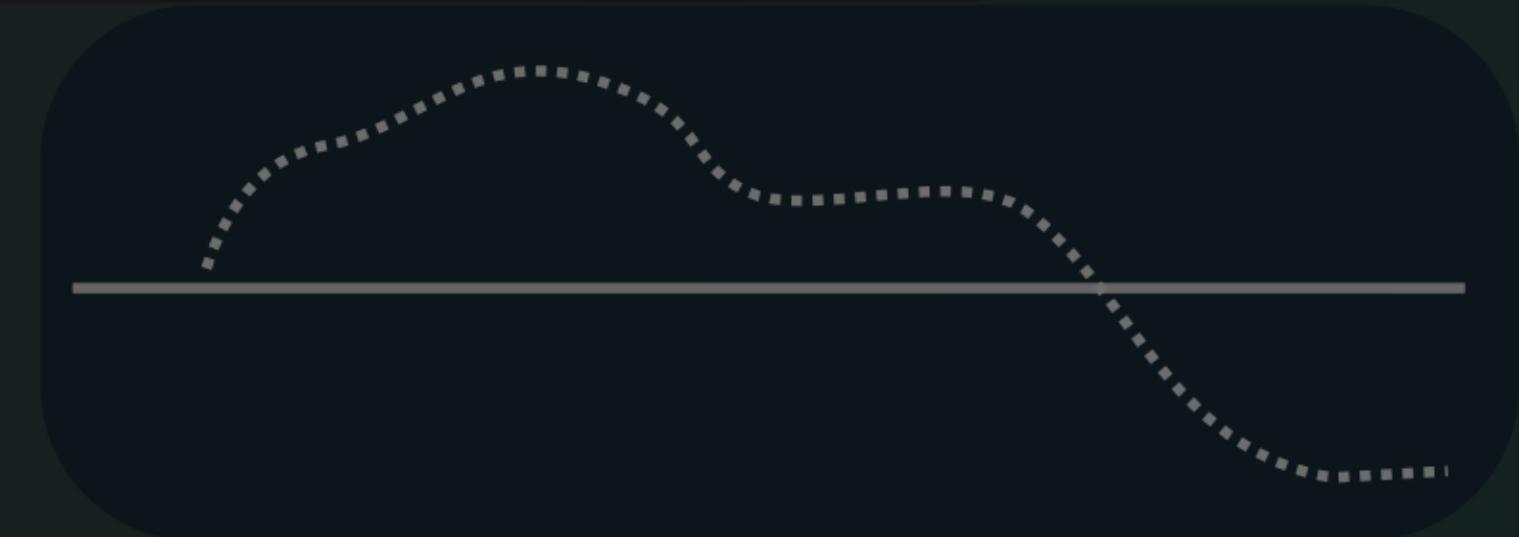
1

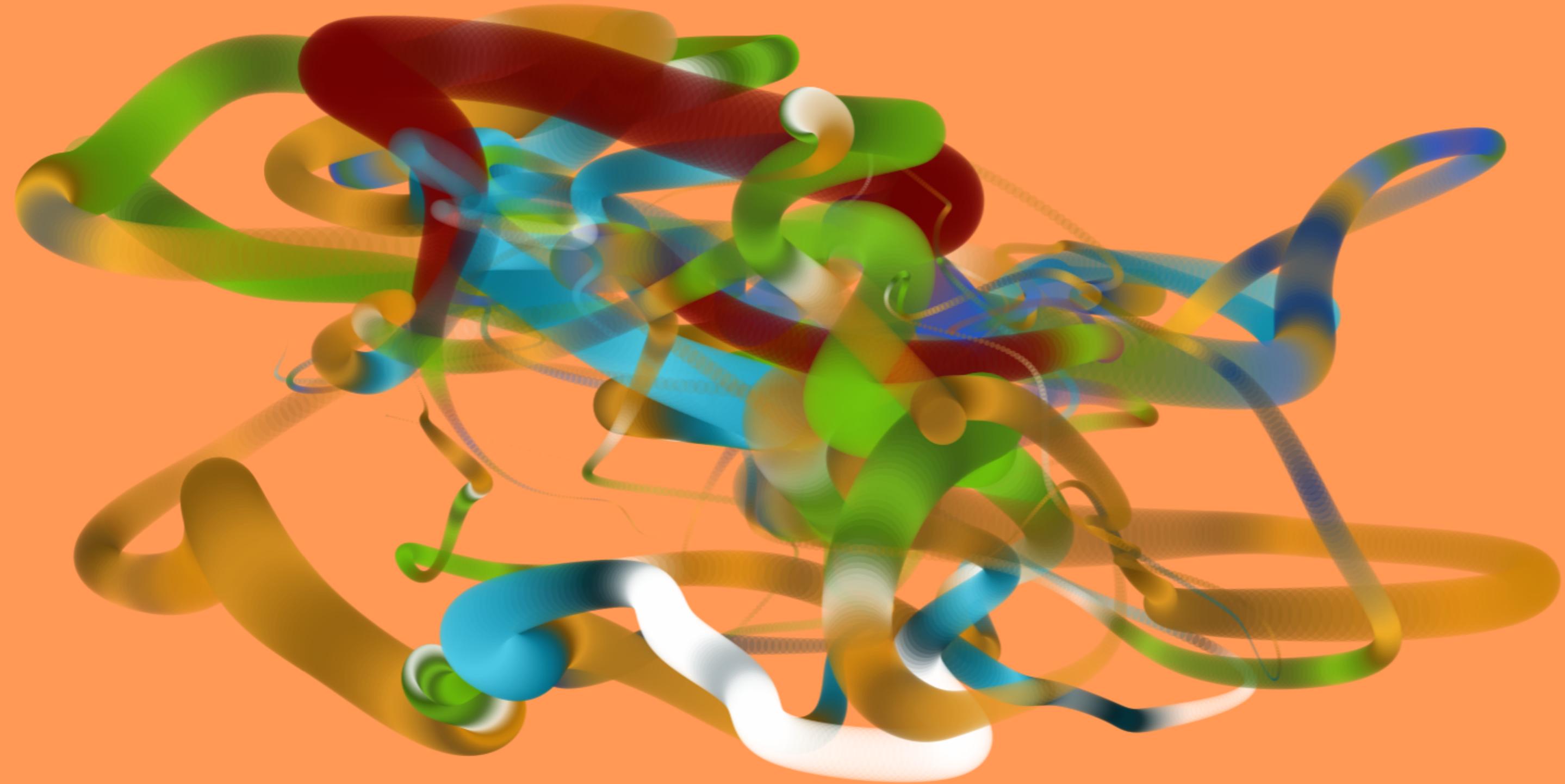
1/2

Perlin Noise

- Random point
- Cubic spline

```
(def config
  {:x [300 1300]
   :y [200 700]
   :roughness 0.9
   :n-points 10000
   :color rand-circles.color/colors
   :opacity [0.05 0.4]
   :radius [0 30]})
```





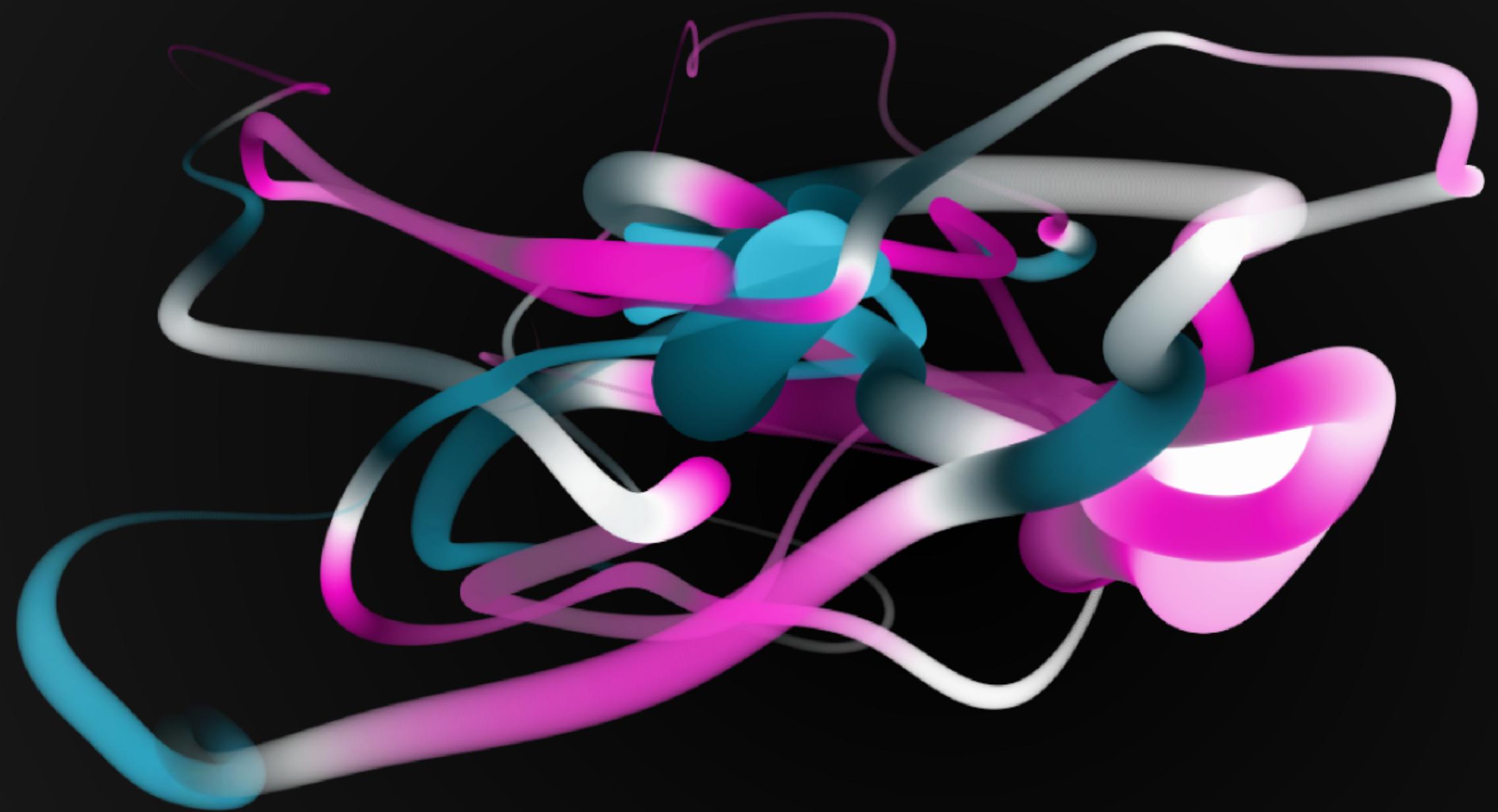


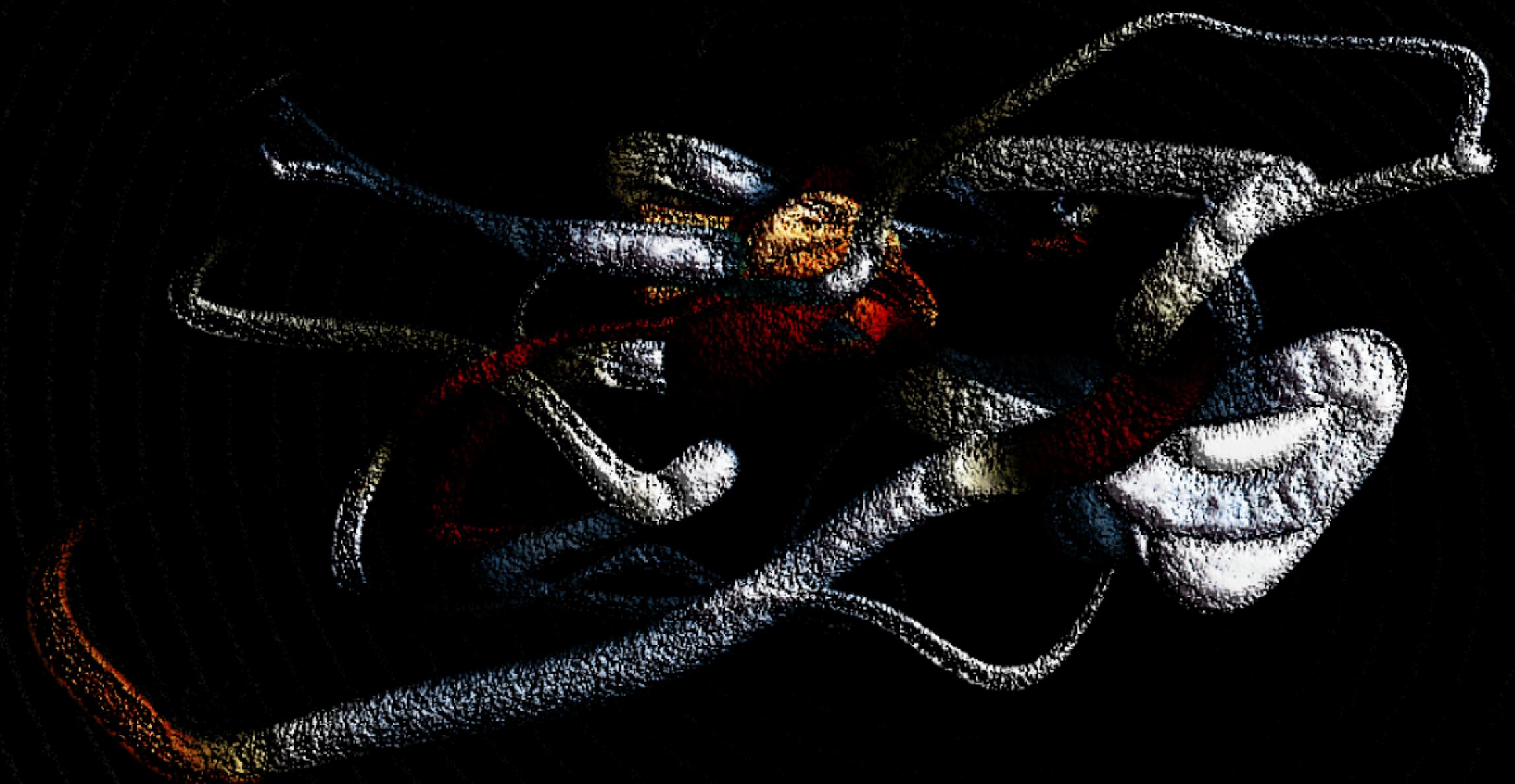












This figure shows a high-resolution, color-coded electron microscopy reconstruction of a protein complex, likely a ribosome subunit. The complex is shown in a semi-transparent, light blue surface representation, revealing its intricate internal structure and assembly state. A central, bright orange-red region indicates a high-density area, likely the nucleic acid or a core protein region. The overall shape is roughly spherical with irregular protrusions and indentations, characteristic of biological macromolecules.