

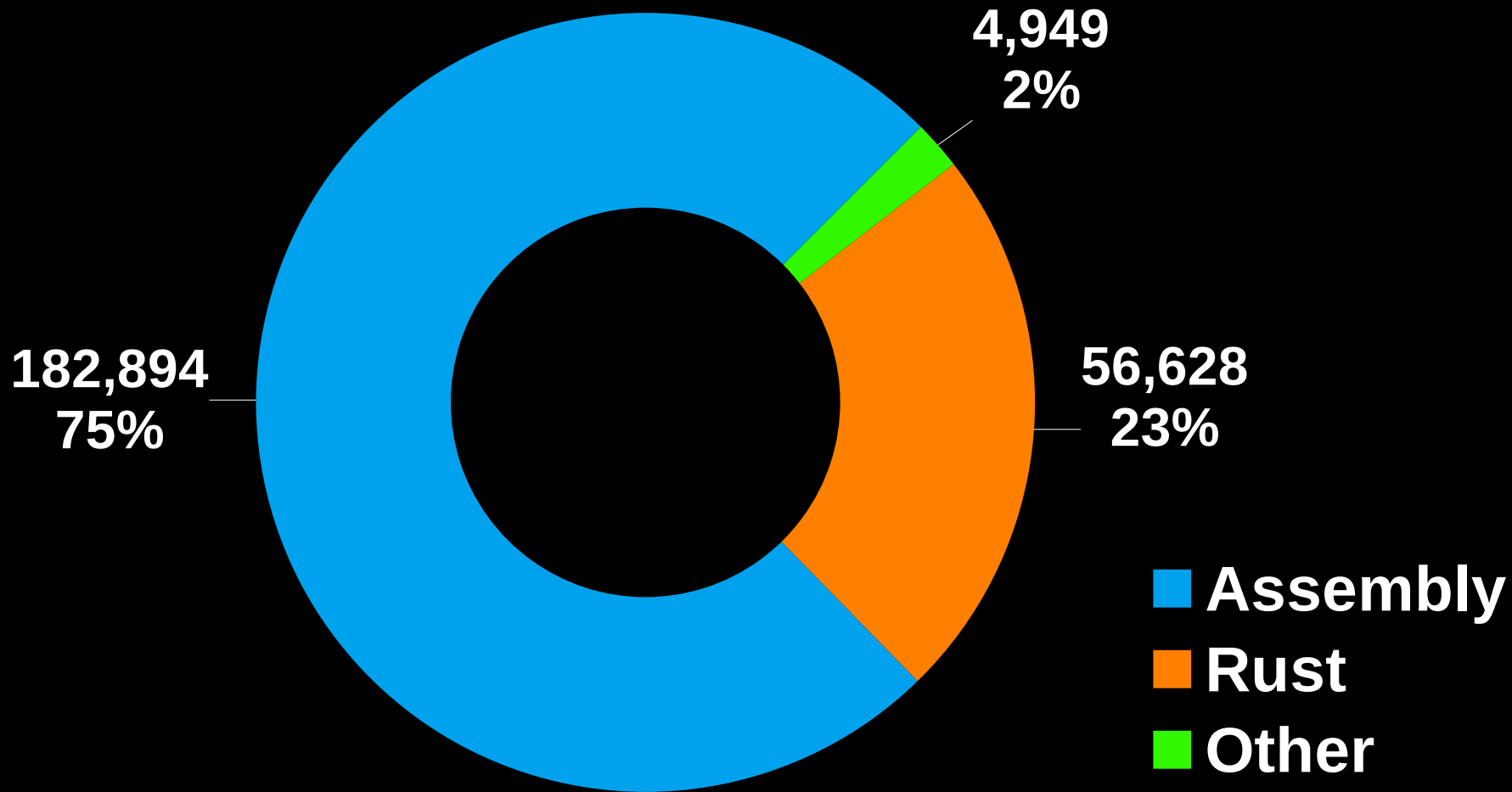
rav1e 2022

David Michael Barr

The Rust AV1 Encoder (rav1e) project is focused on algorithms that improve perceived video quality.

High-level code is written in Rust,
optionally supplemented by assembly
and decoding parts mostly from dav1d.

Lines of Code by Language



Assembly authors since v0.5.1

47 Henrik Gramner

24 Ronald S. Bultje

15 Victorien Le Couviour–Tuffet

13 Matthias Dressel

7 Martin Storsjö

6 redzic

2 Jonathan Wright

2 Salome Thiot

1 André Kempe

1 Anton Mitrofanov

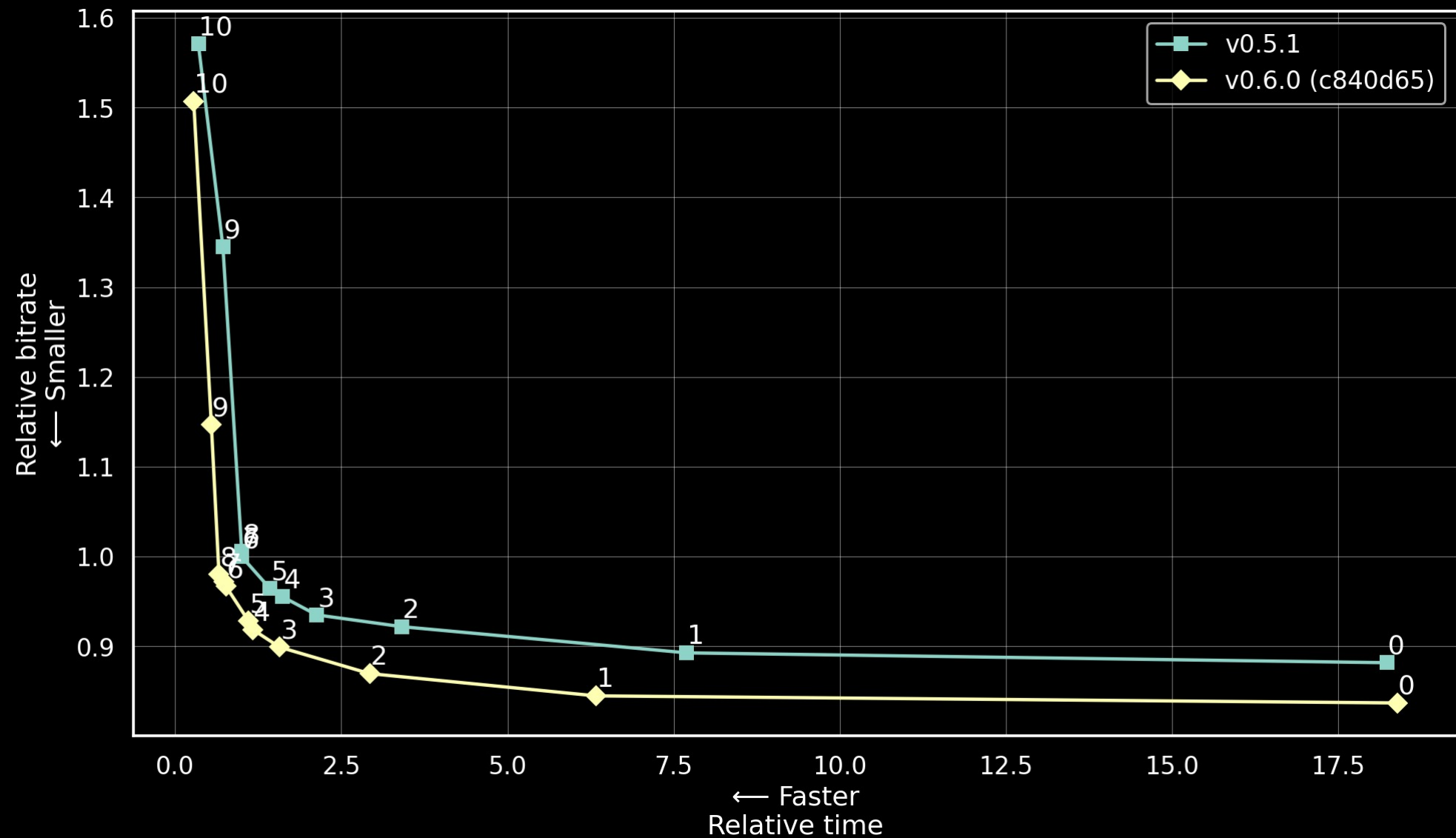
1 David Michael Barr

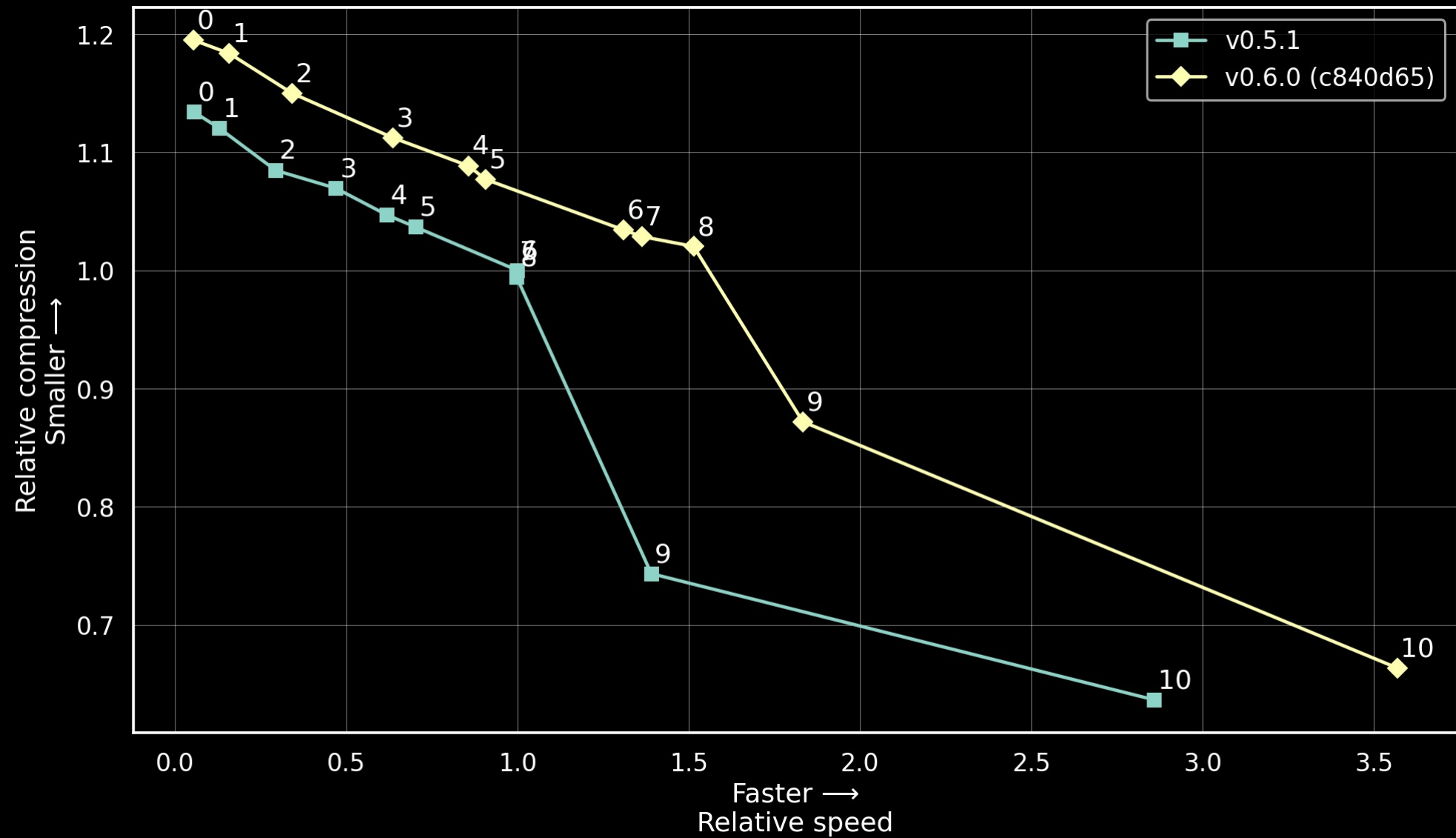
1 Kyle Siefring

Other authors since v0.5.1

50 Josh Holmer
39 David Michael Barr
25 redzic
19 Luca Barbato
17 Luni-4
11 Kyle Siefring
5 doctortheemh

4 Timothy B. Terriberry
2 Thomas Daede
2 Tristan Matthews
1 BlueSwordM
1 Kornel
1 Robert-André Mauchin







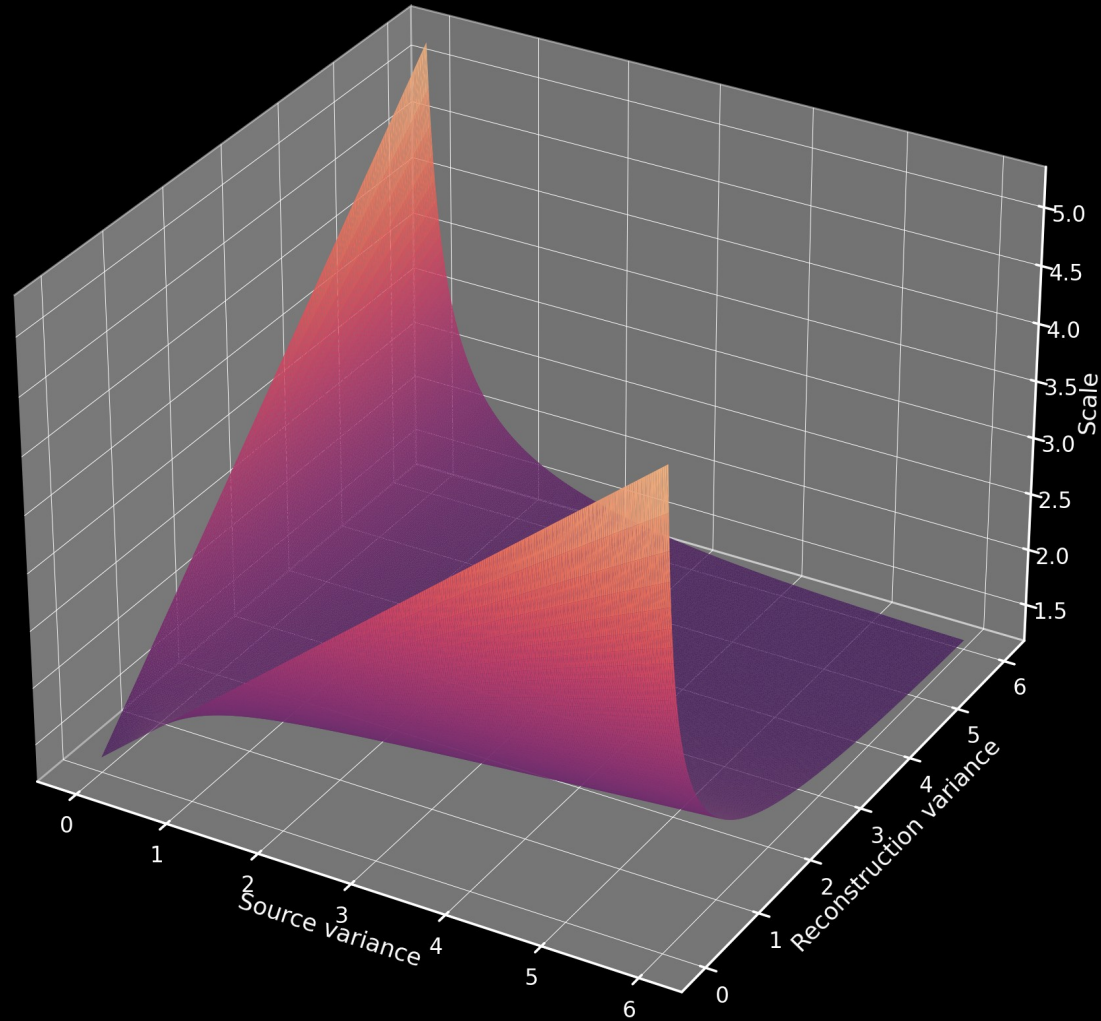
Netflix_DrivingPOV_1280x720_60fps_8bit_420_60f.y4m

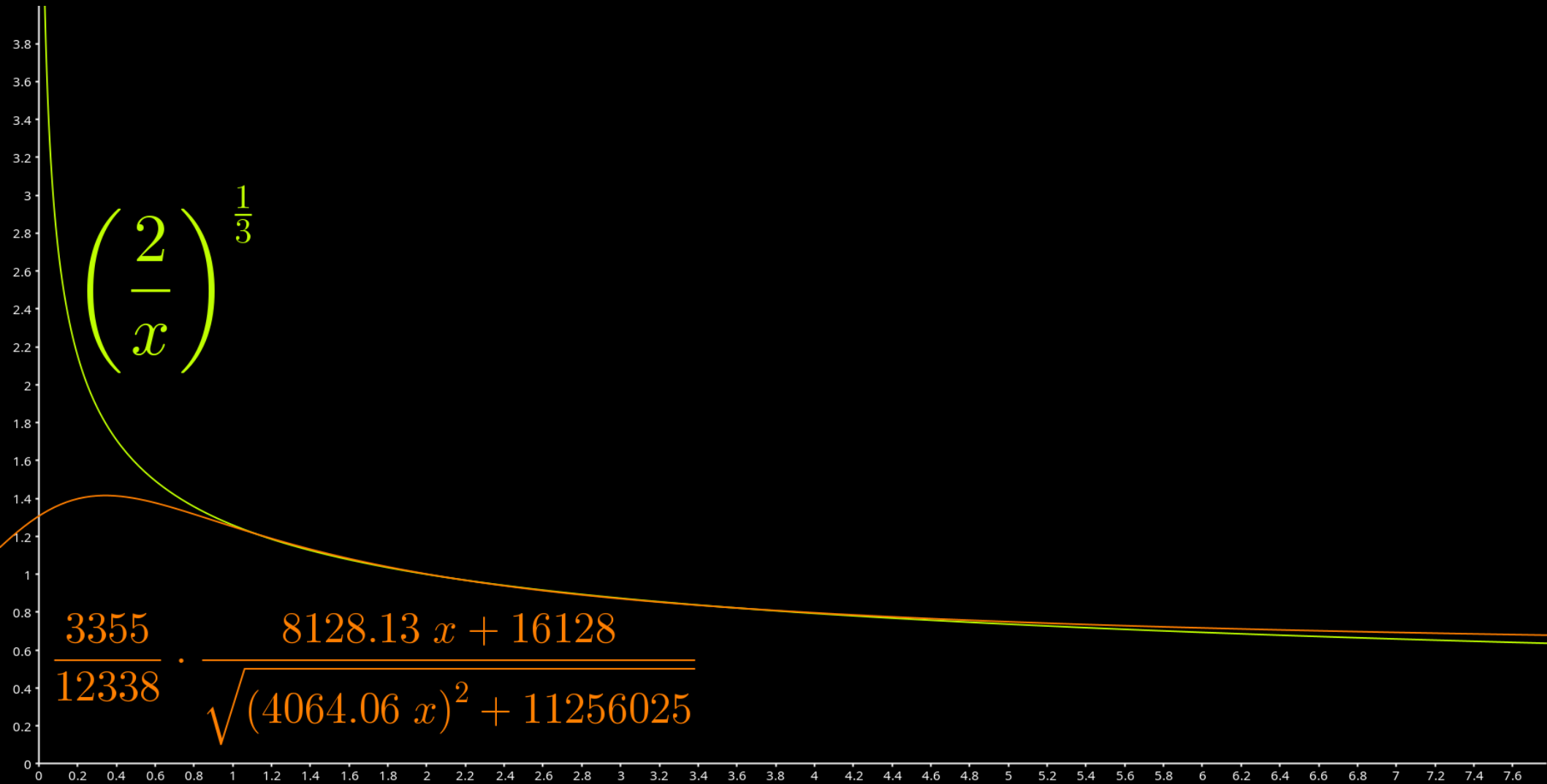
| An example to peek under the hood





SSIM Boost

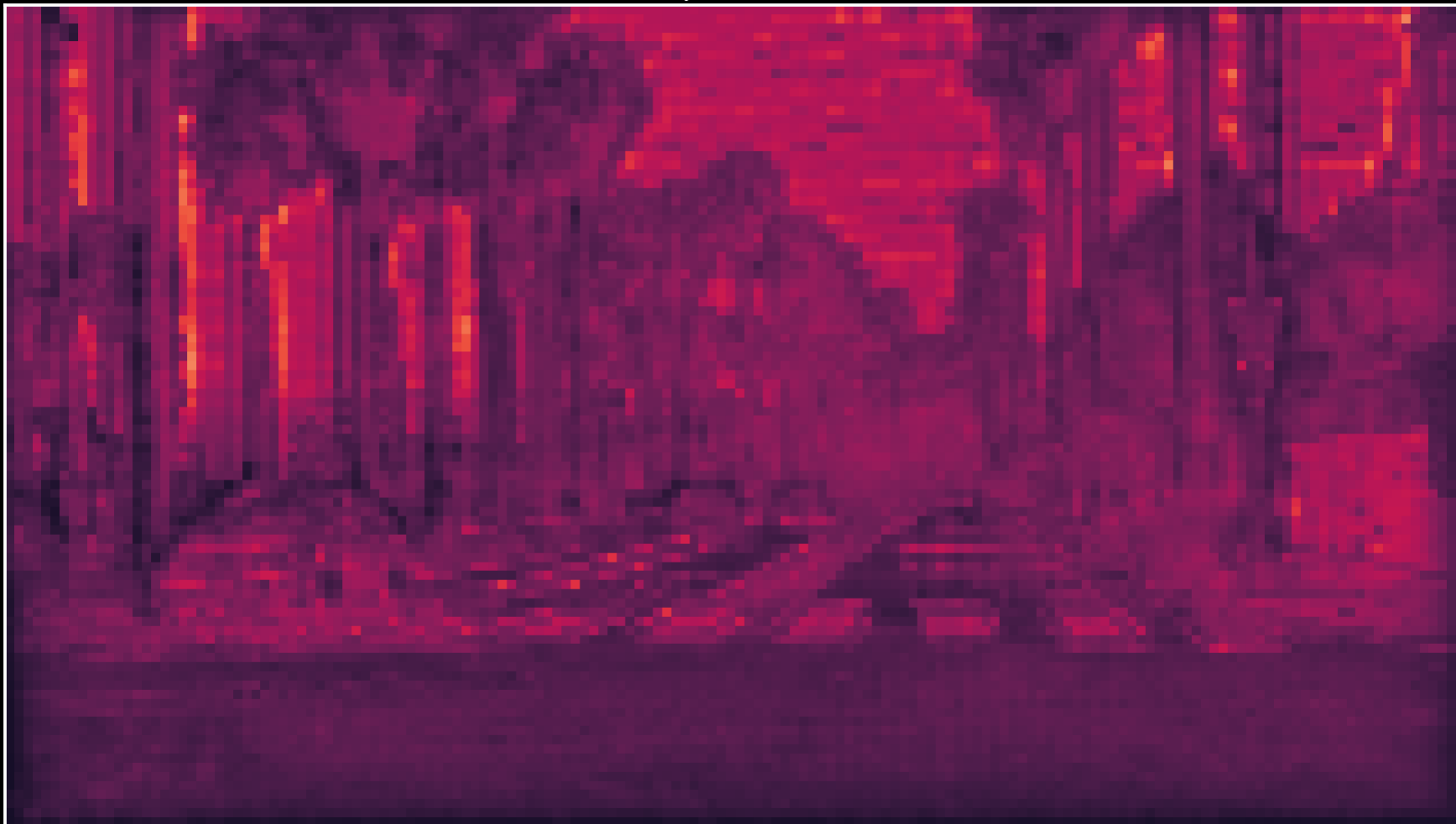




Spatial Scale



Temporal Scale



Spatiotemporal Scale



Segment

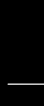


Segment (Frame 30)



https://ba.rr-dav.id.au/awcy_c840d65_s1_Netflix_DrivingPOV_q113

Explore in Are We Compressed Yet



<https://github.com/xiph/rav1e>

David Michael Barr

<https://ba.rr-dav.id.au>
