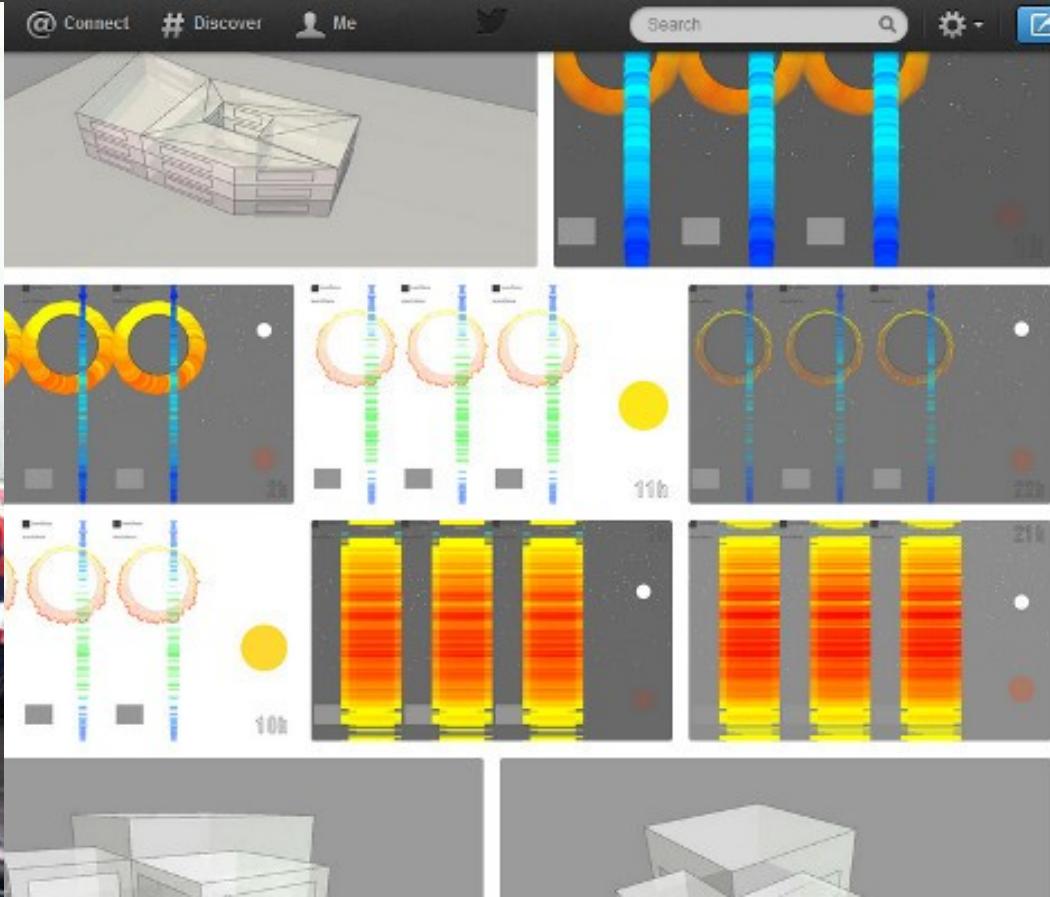


Digital Steganography

a new file type for 3D models?



@simulationBot
how to tweet a 3D model?

Digital Steganography

 **Dan Goodin**
@dangoodin001

The text hidden in this tweet is so secret that it's impossible for adversaries to read or detect#steganography rocks#security #privacy

RETWEETS 56 FAVORITES 28

6:09 PM - 8 May 2014

<http://arstechnica.com/security/2014/05/08/how-to-stash-secret-messages-in-tweets-using-point-and-click-steganography/>



<http://arstechnica.com/business/2012/05/02/steganography-how-al-qaeda-hid-secret-documents-in-a-porn-video/>



**Audio encoded in my image?
Count me surprised.**

<http://9ol.es/PiggyPack.html>

<http://steghide.sourceforge.net>

original

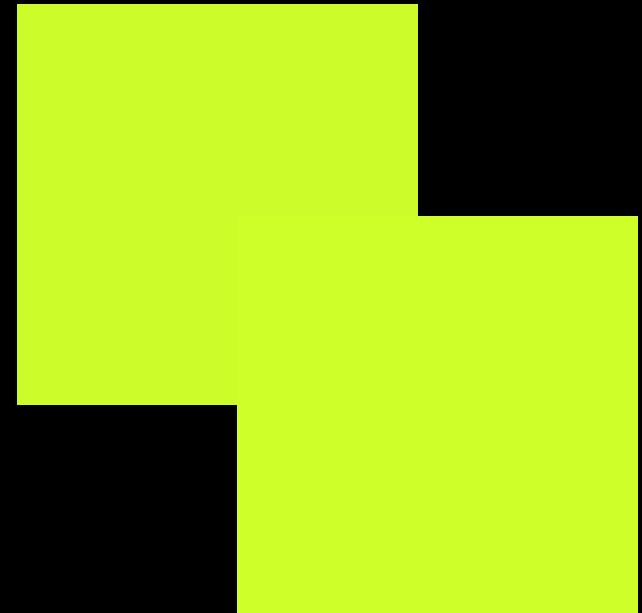
RED	GREEN	BLUE
11001100	11111100	00101010
204	252	42

edited

RED	GREEN	BLUE
11001111	111111 11 00101001	
207	255	41

concealed data

111101
49
0 – 63



original

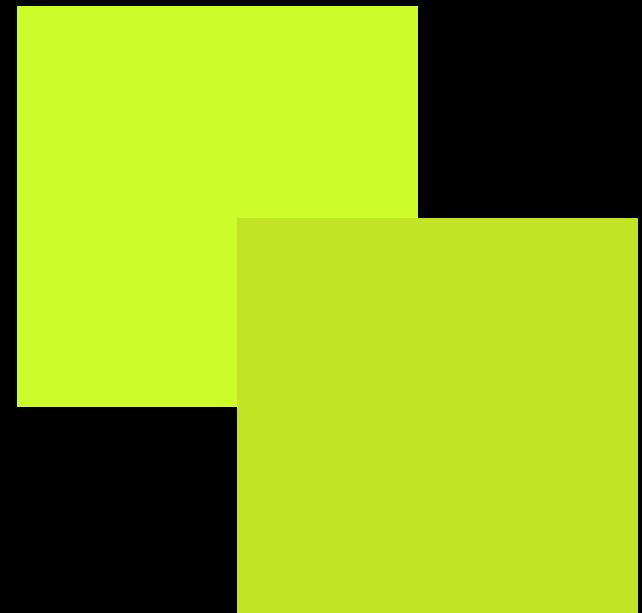
RED	GREEN	BLUE
11001100	11111100	00101010
204	252	42

edited

RED	GREEN	BLUE
11000011	1111 0011	0010 0101
195	227	37

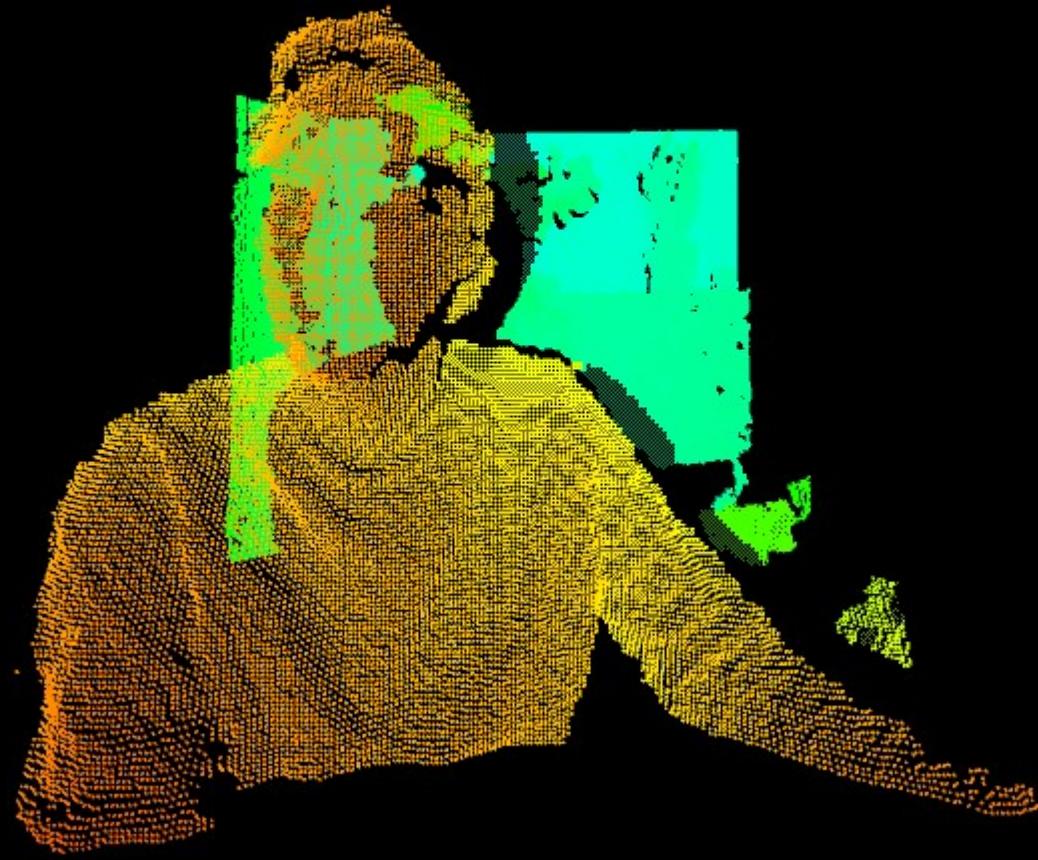
concealed data

001100110101
821
0 - 4095

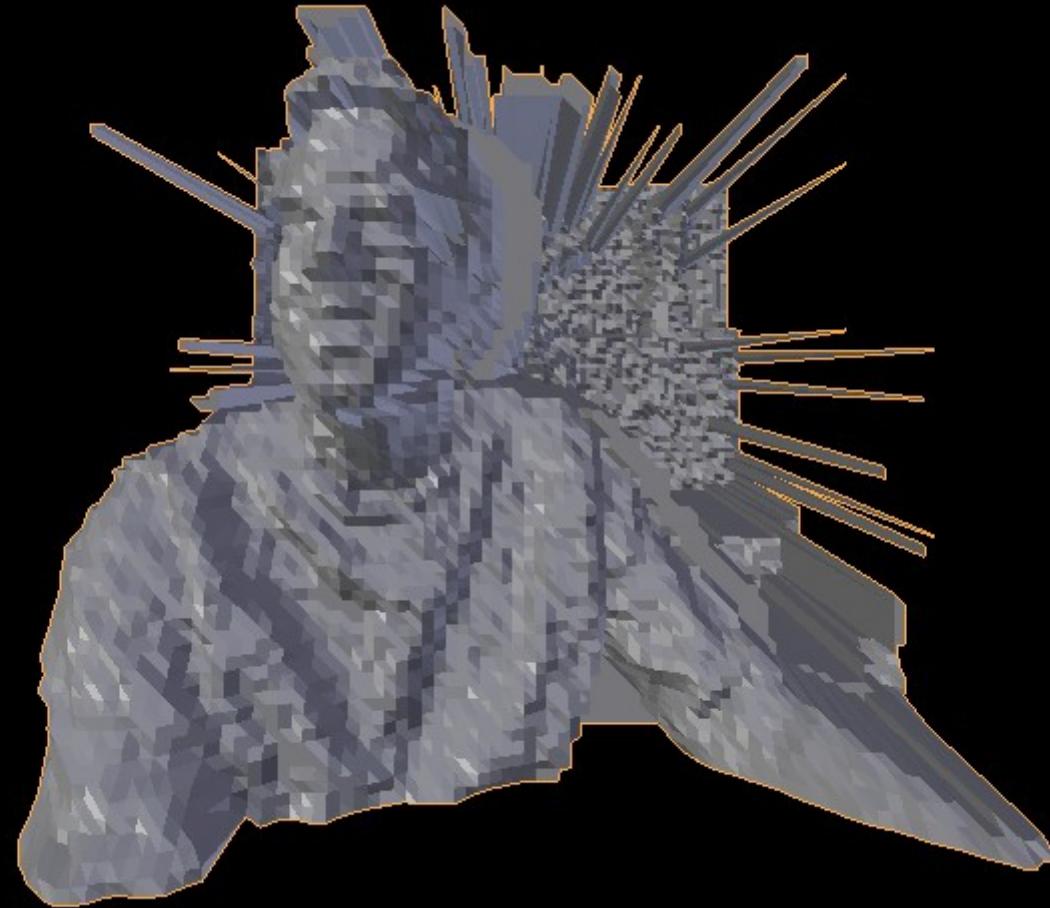




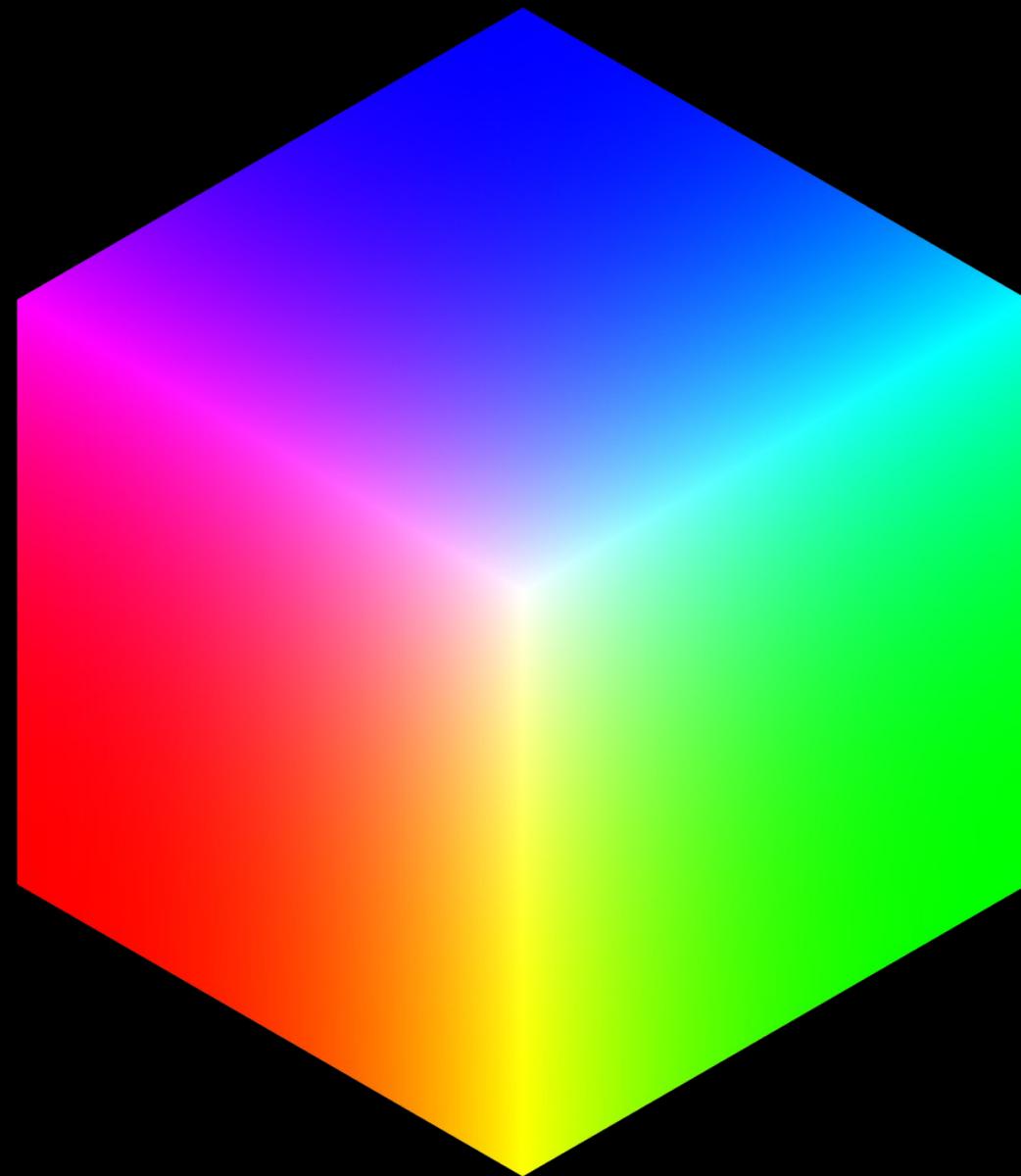
GenderBlending, Constant
Brussels
Nov 2014

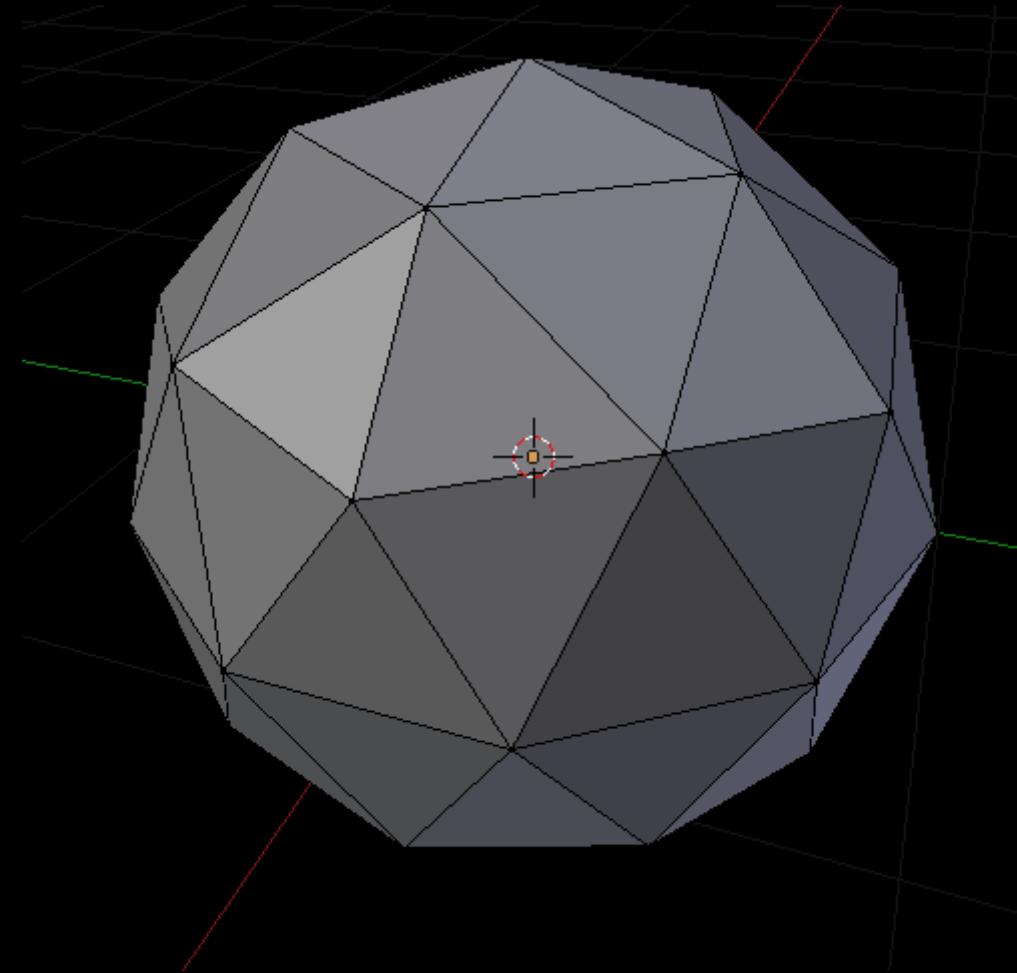


GenderBlending, Constant
Brussels
Nov 2014



GenderBlending, Constant
Brussels
Nov 2014





outer loop

vertex 46.875000 -75.781250 24.218746

vertex 43.750000 -76.562500 16.406246

vertex 50.000000 -68.750000 9.374997

endloop

1 PIXEL = 1 VERTEX

3 PIXEL = 1 FACE

**DIRECT MAPPING
XYZ = RGB**

**MODEL SPACE
0-255 units**

FACE

vertex

x y z



vertex

x y z



vertex

x y z



3 PIXEL = 1 COORDINATE

9 PIXELS = 1 FACE

DECIMAL RGB AS STRING
“0-255” & “0-99” & “0-99”

MODEL SPACE
0 – 2,559,999 units

3 PIXEL = 1 COORDINATE

9 PIXELS = 1 FACE

24bit Pixel

100011100011010111000011

**MODEL SPACE
0 – 16,777,215 units**

FACE

vertex

x y z



vertex

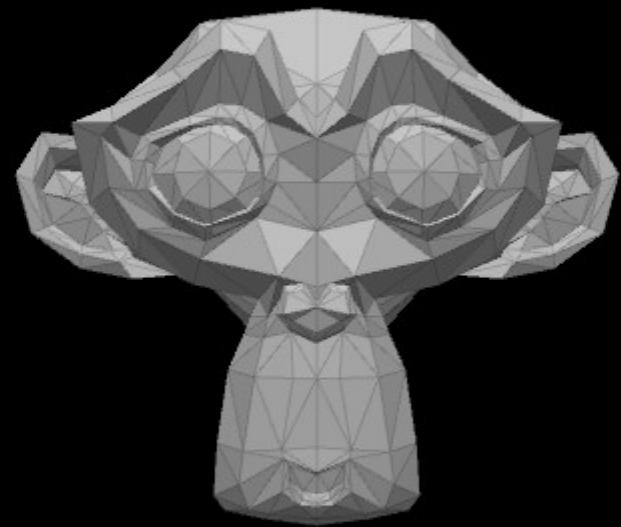
x y z

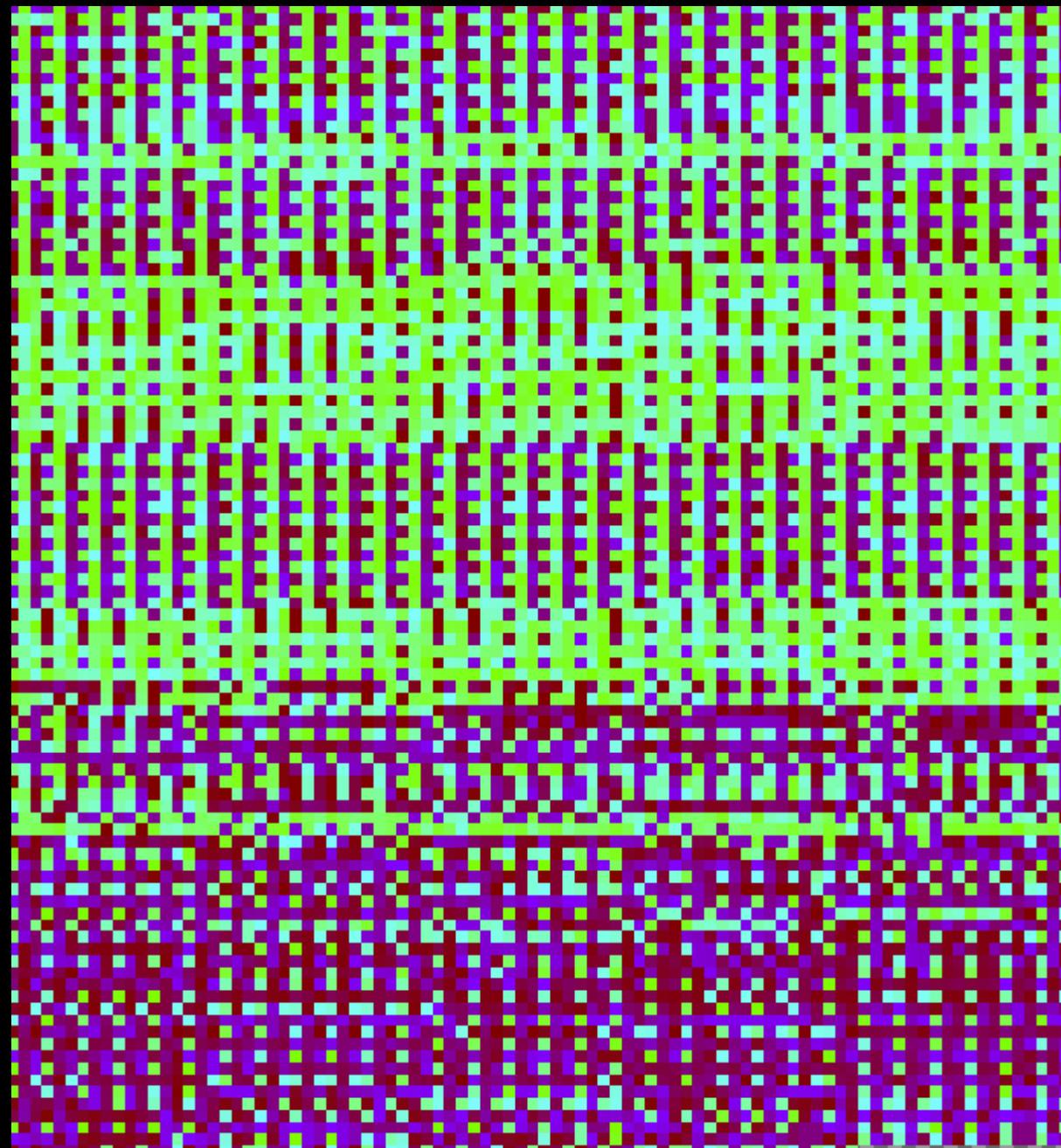


vertex

x y z









simBot BETA

@simulationBot



Following

...what you lookin' at?? #pixMod
#yourNameHere #mesh1ASCII



2:12 PM - 30 Apr 2015

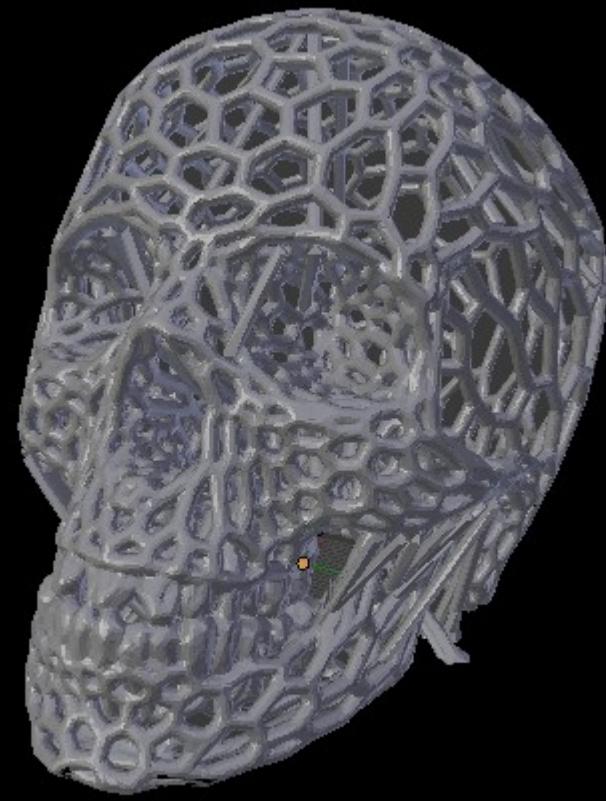


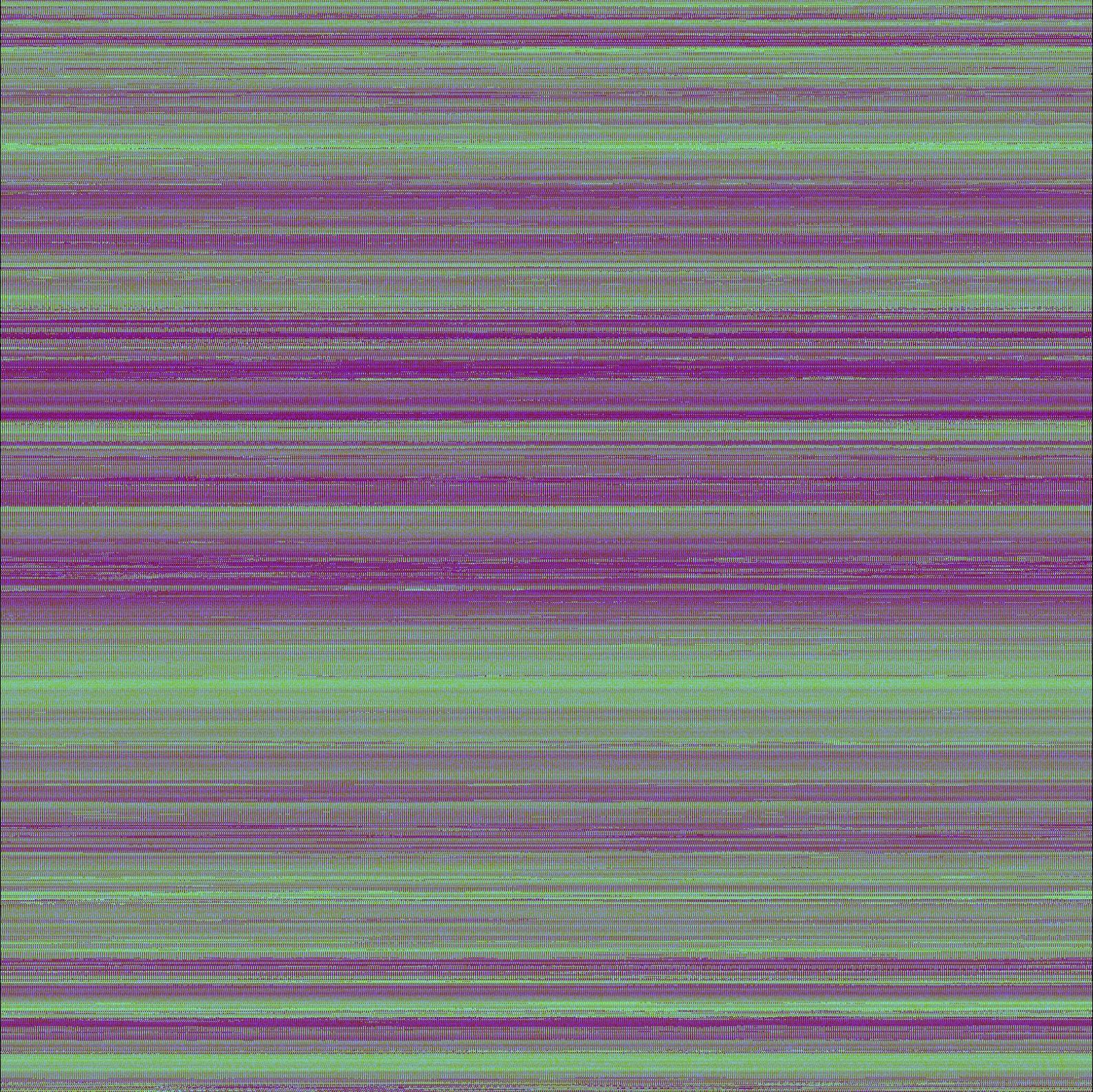
Reply to @simulationBot

ASCII STL
156.8kb

NON-ASCII STL
48kb

IMAGE FILE PNG
6.7kb

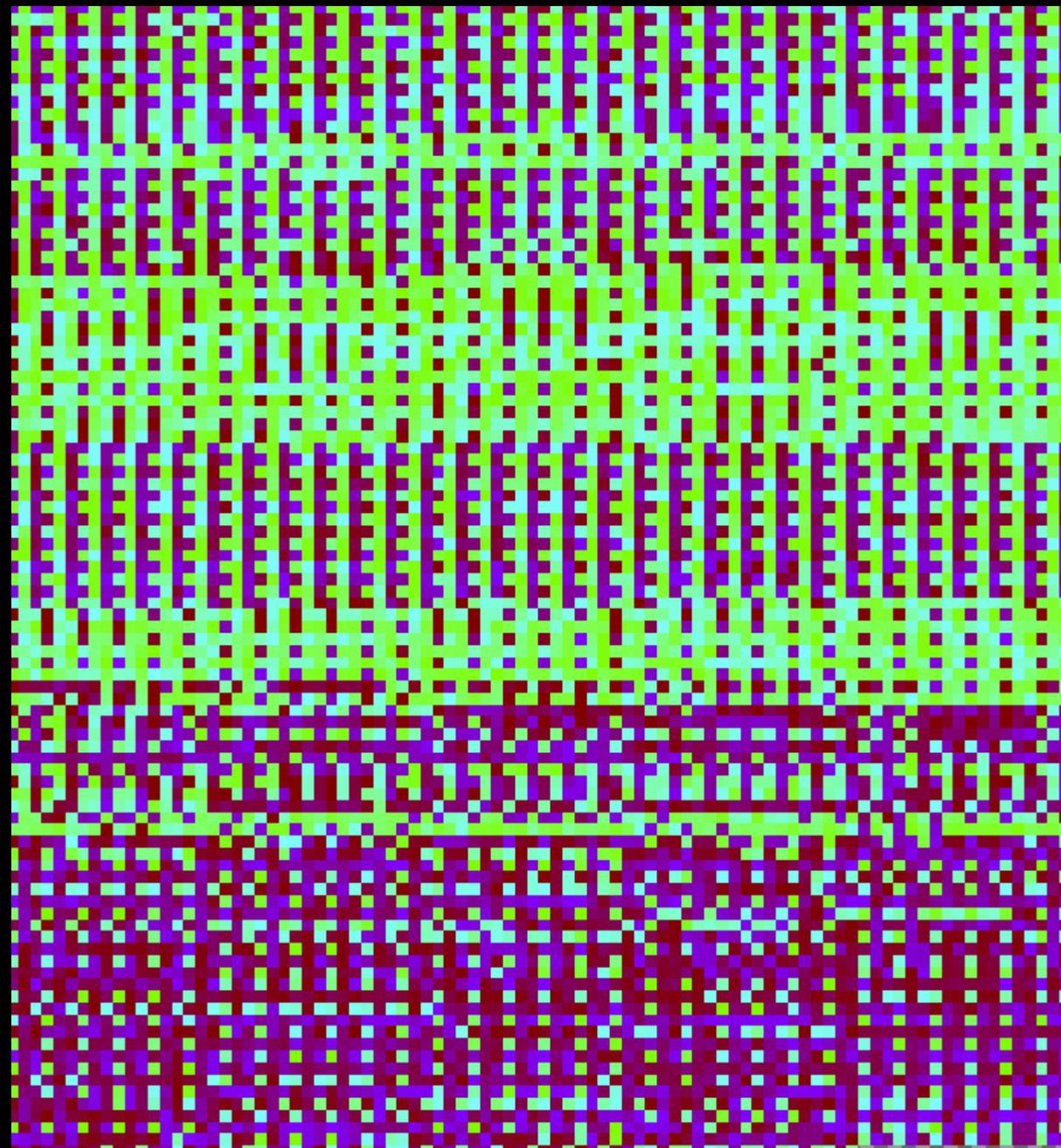




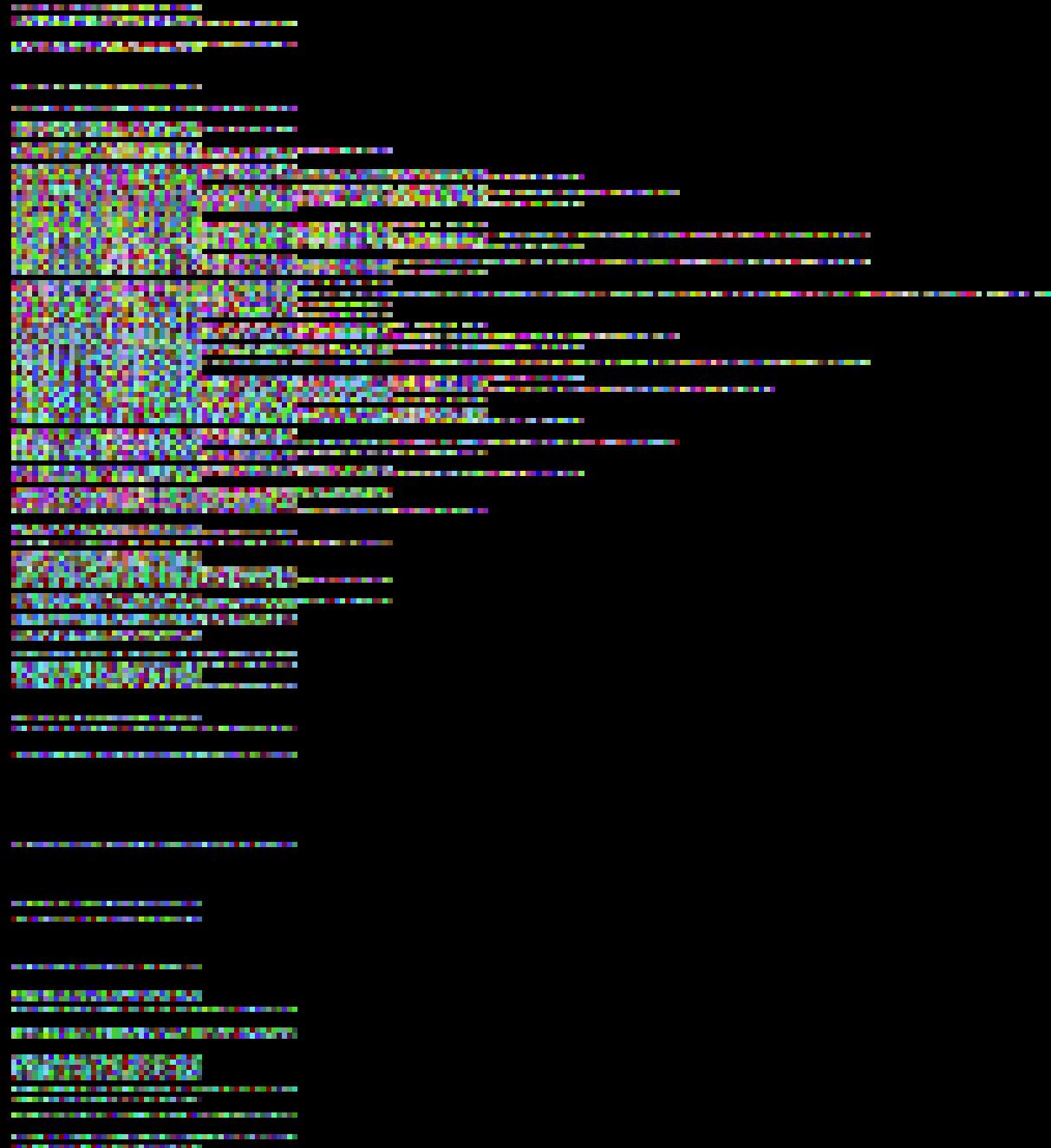
ASCII STL
42.9mb

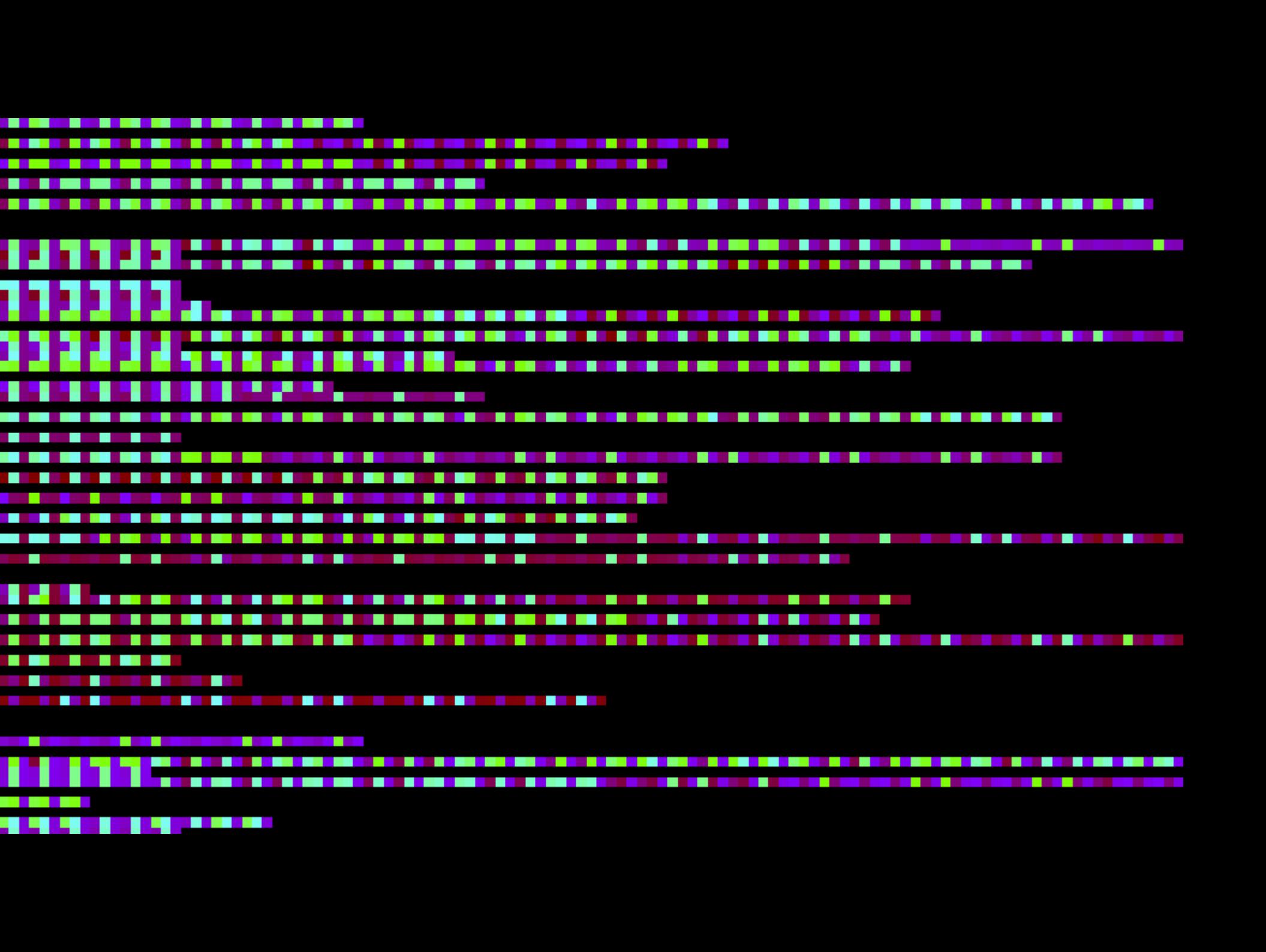
NON-ASCII STL
13.9mb

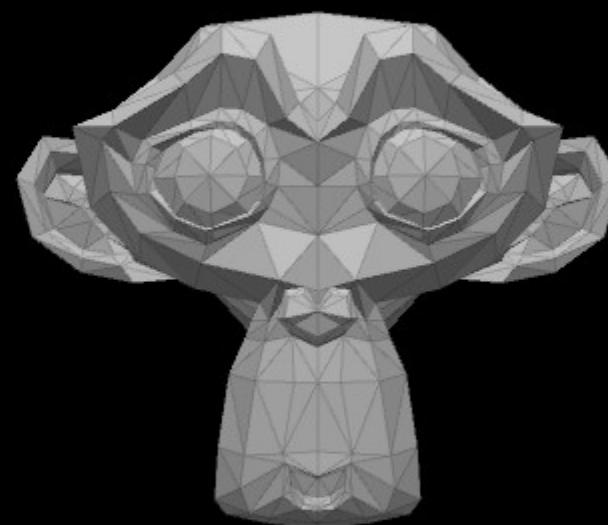
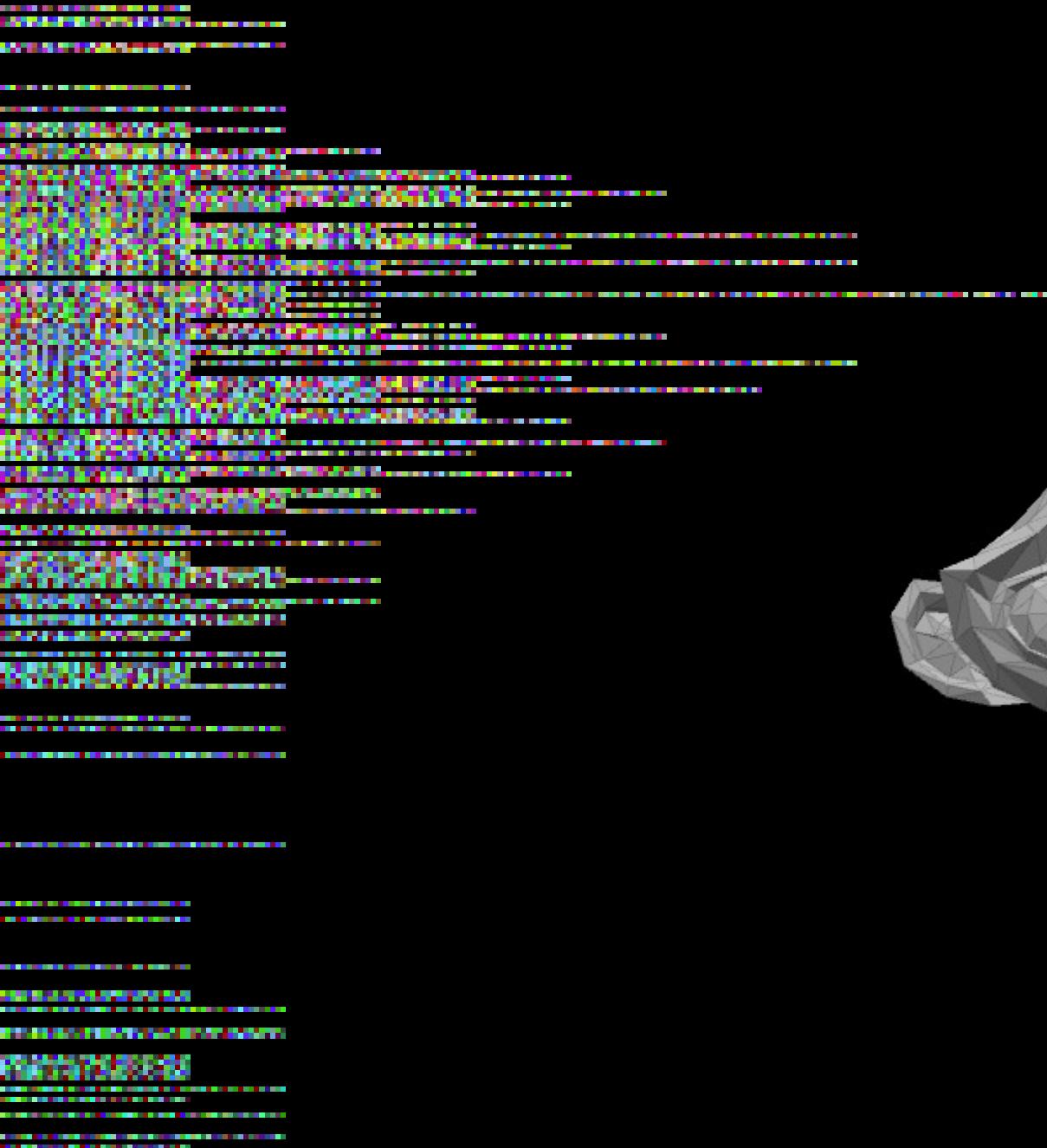
'PIXEL SQUARE' PNG
2.9mb











ASCII STL
156.8kb

NON-ASCII STL
48kb

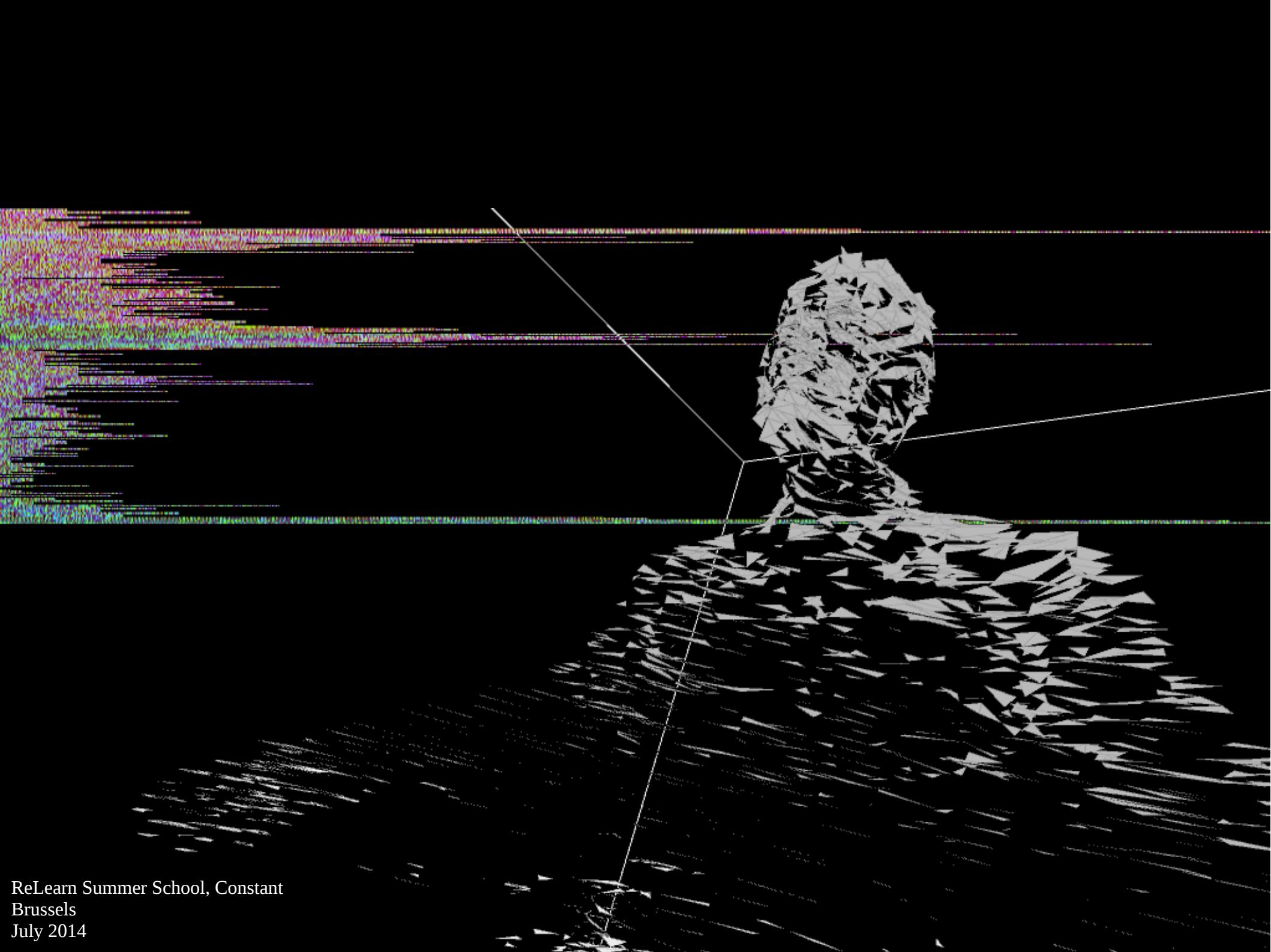
'PIXEL GRAPH' PNG
8.1kb

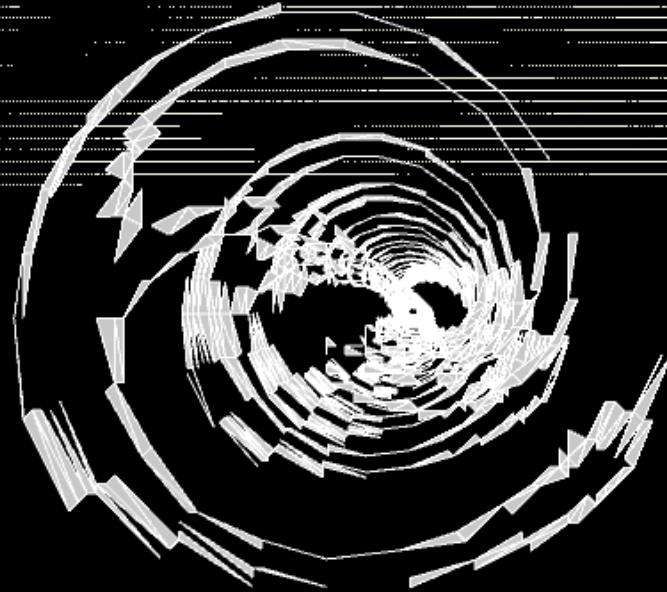


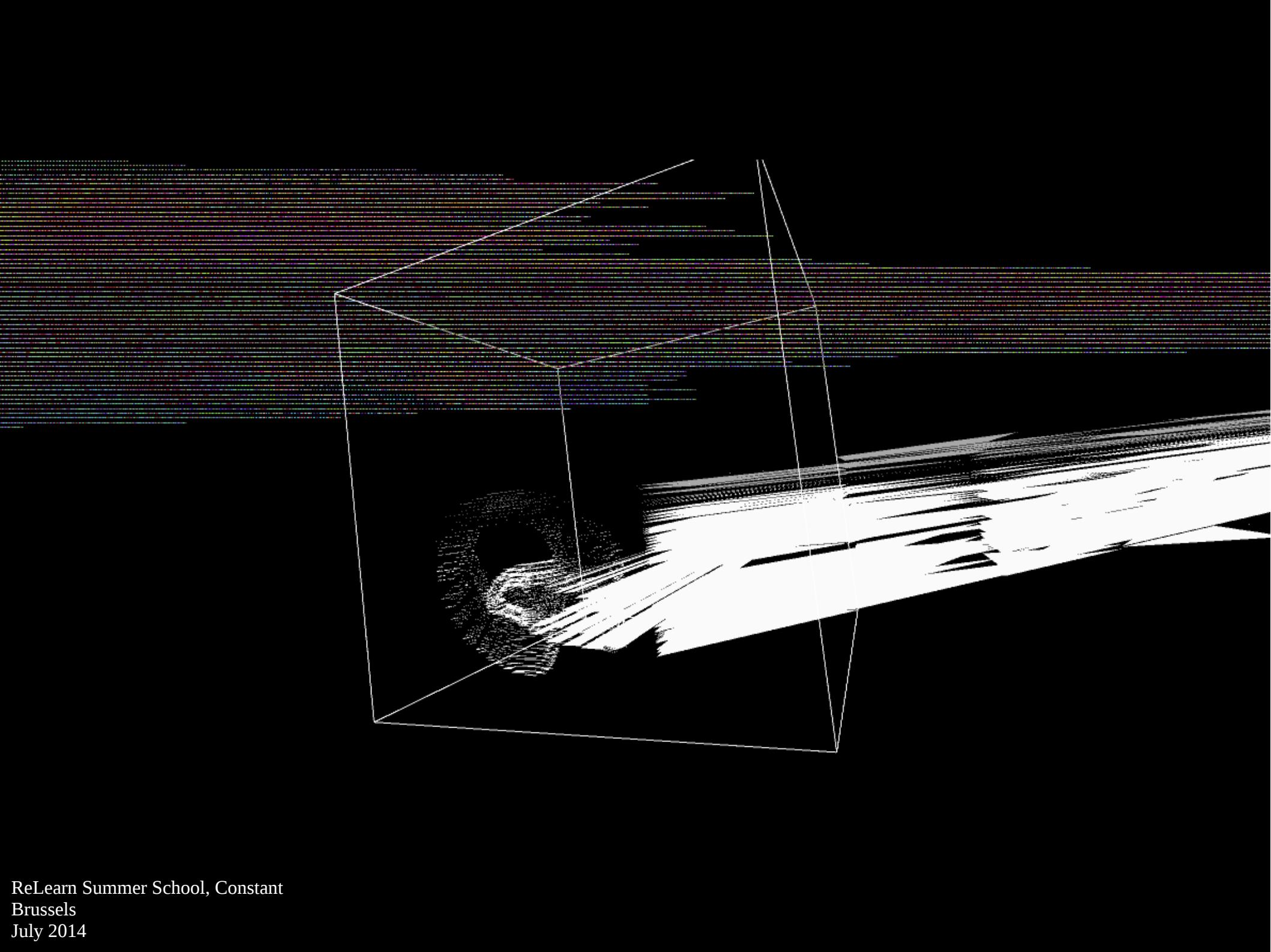
ReLearn Summer School, Constant
Brussels
July 2014



ReLearn Summer School, Constant
Brussels
July 2014

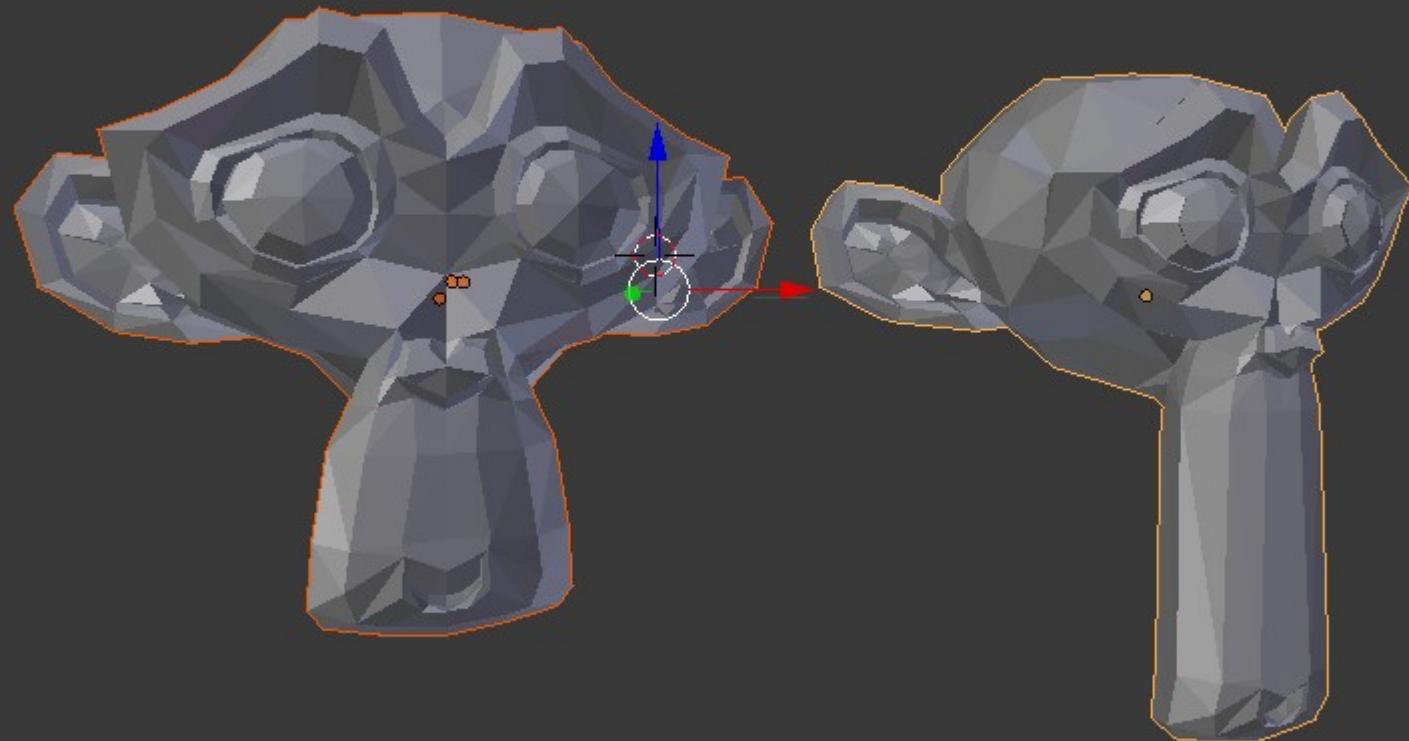






ReLearn Summer School, Constant
Brussels
July 2014

User Persp



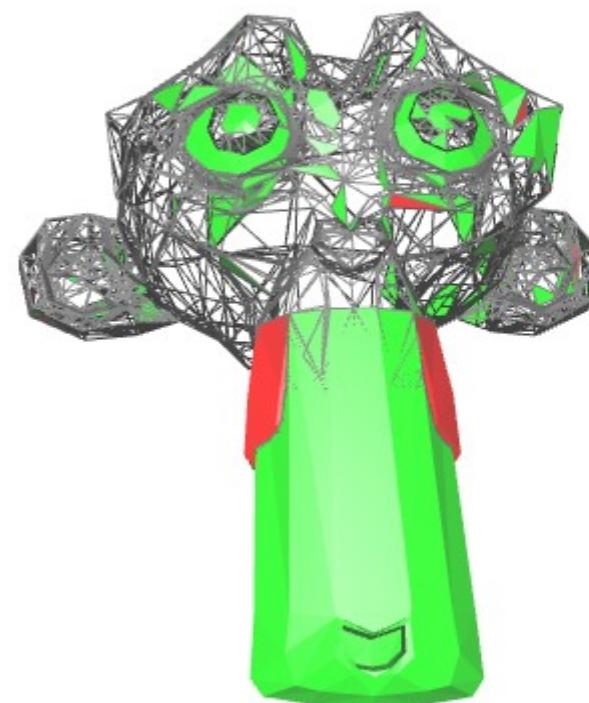
(1) Mesh2

 Showing 1 changed file with 326 additions and 326 deletions.

Unified Split

652    mesh1.stl

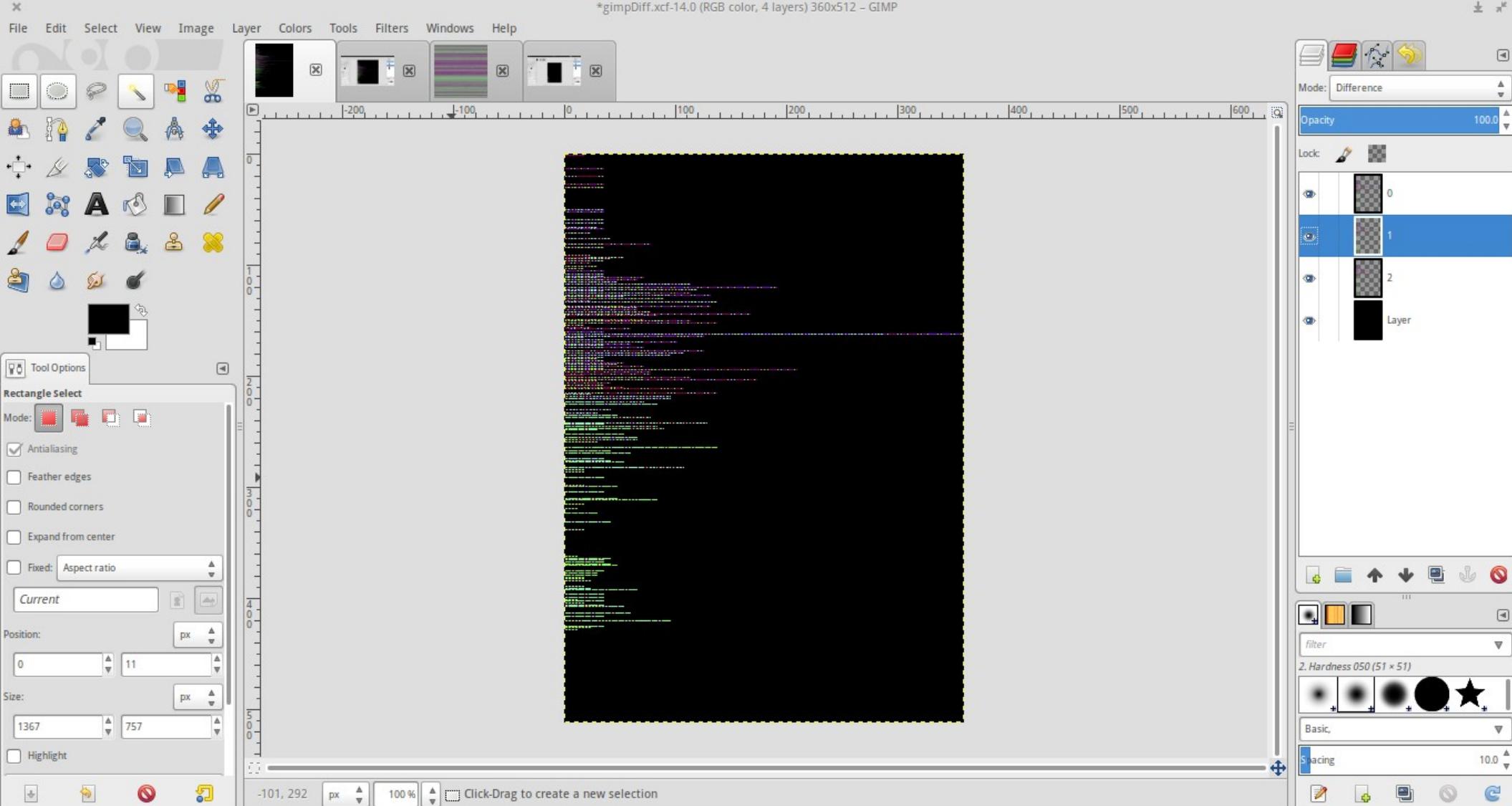
View



Revision Slider | Highlight

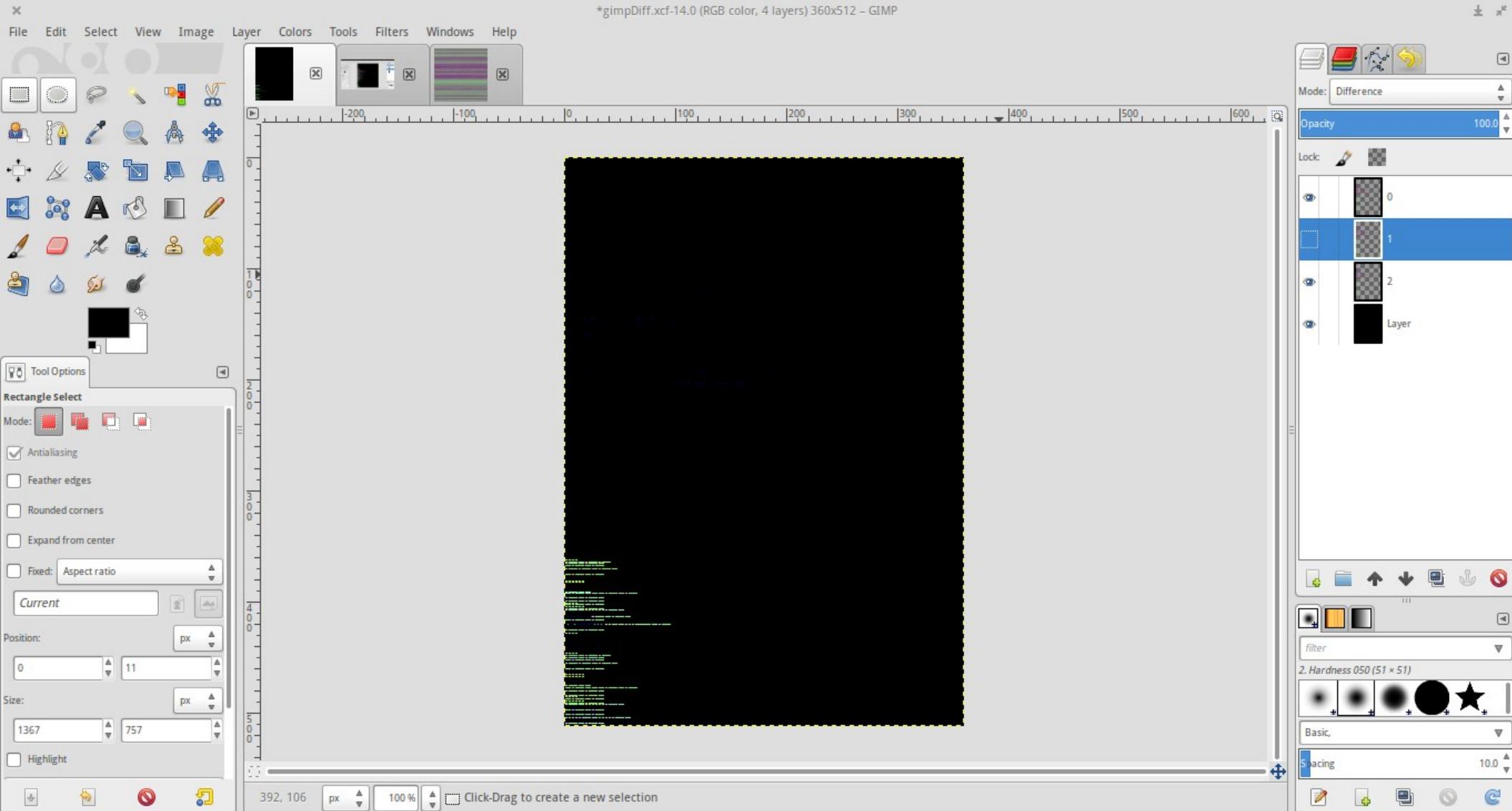
Applications

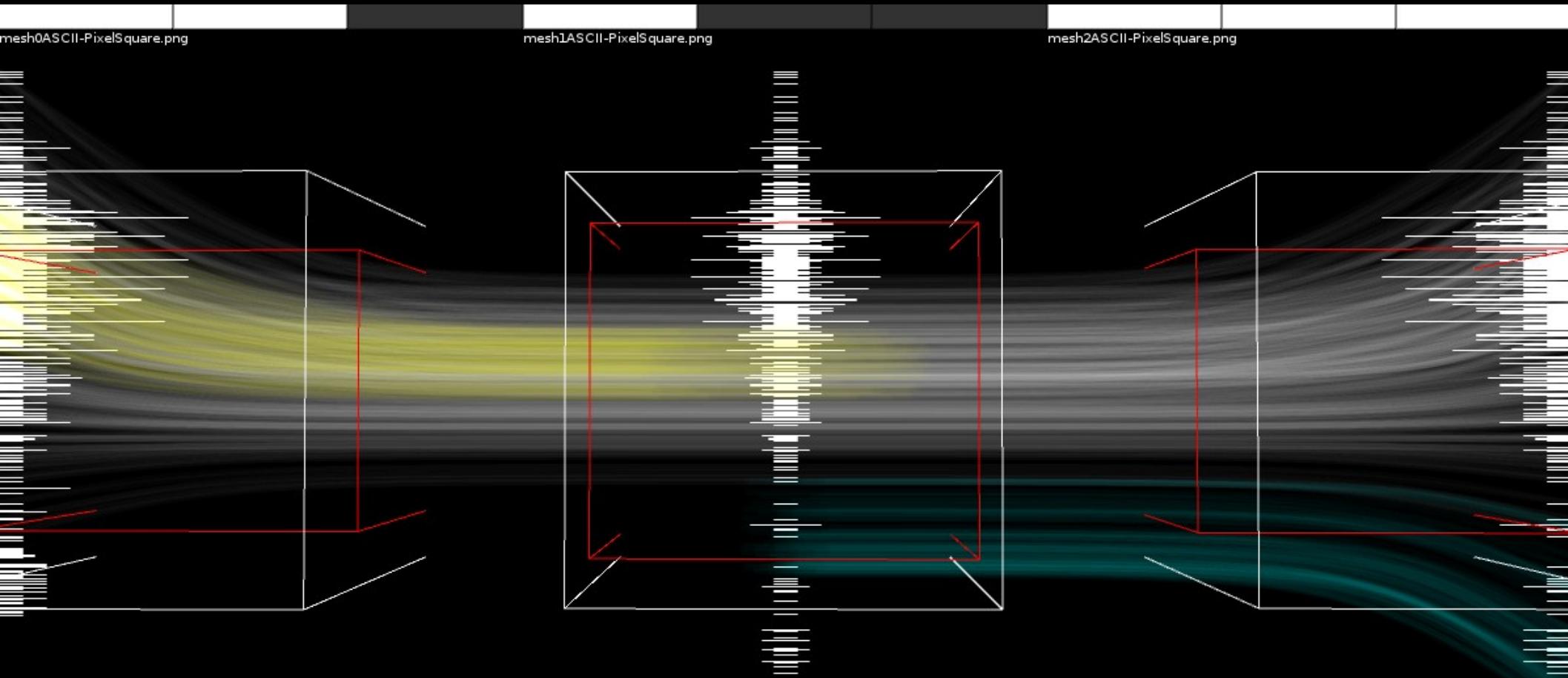
Fri May 1 11:07



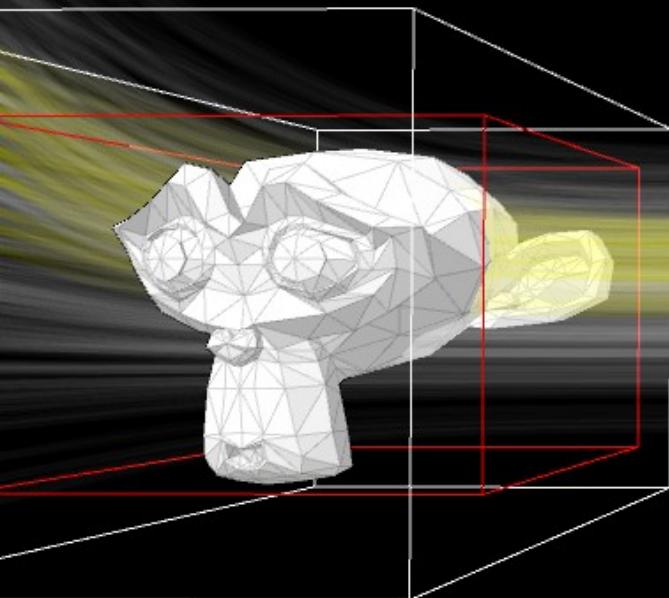
Applications

Fri May 1 11:07

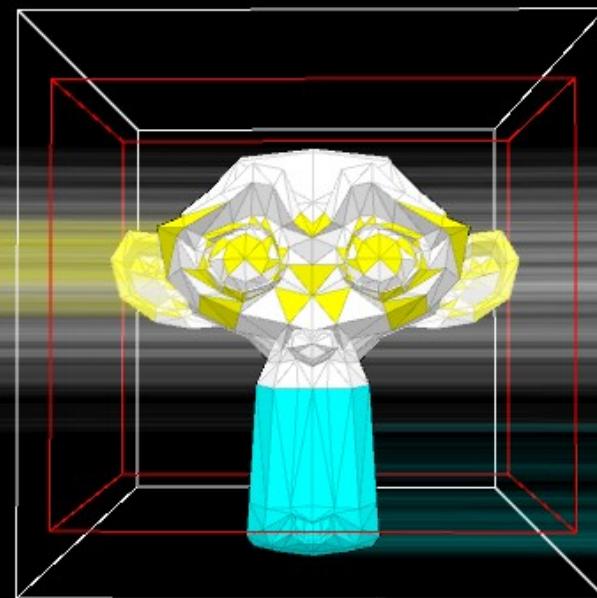




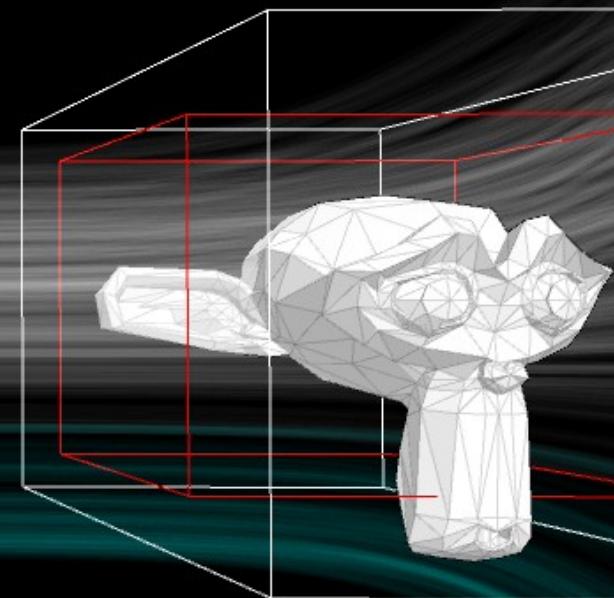
mesh0ASCII-PixelSquare.png



mesh1ASCII-PixelSquare.png



mesh2ASCII-PixelSquare.png



<https://github.com/phiLangley>