Upload the .json file of your colormap here

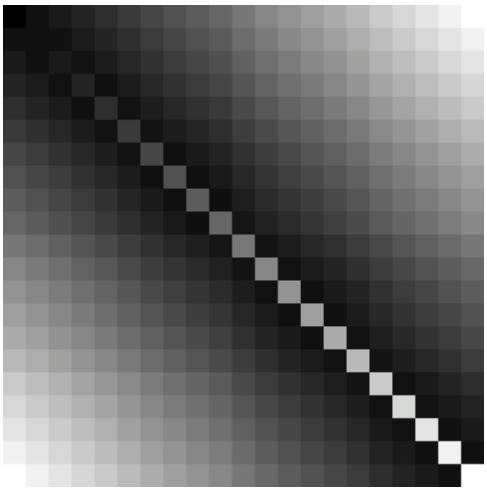
Choose File 8A.json

Colormap

Global Distances

The cell (i,j) contains the distance between the i-th and j-th color of the color map, which are displayed on the diagonal.

CieLAB 1976



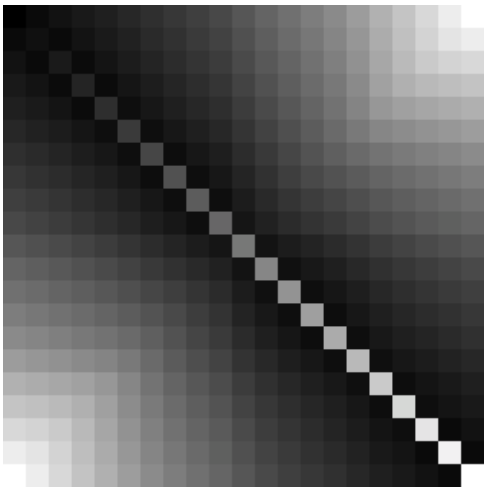
Maximum = 100

Average = 37.24

Minimum = 4.29

Deviation = 24.47

CieLAB 2000



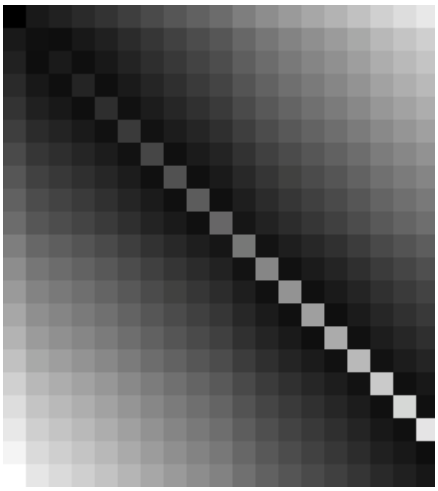
Maximum = 100

Average = 32.01

Minimum = 2.73

Deviation = 23.55

CieCAM 2002



Maximum = 100.02

Average = 36.81

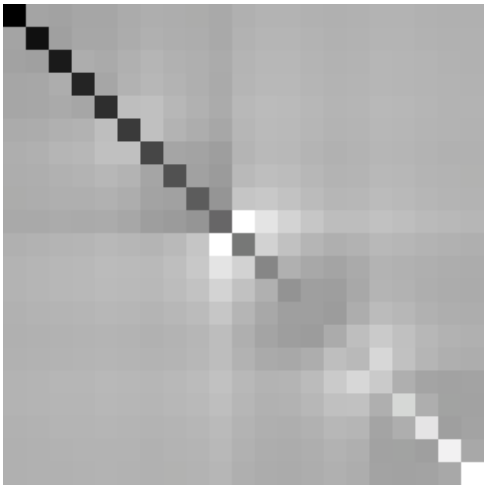
Minimum = 3.94

Deviation = 24.23

Global Speeds

The cell (i,j) contains the ratio of the distance between the i-th and j-th color of the color map and the difference of their corresponding values. The higher the global speed, the bett global discriminative power of the colormap.

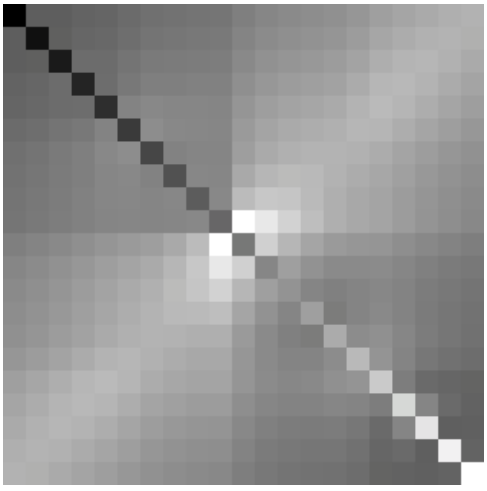
CieLAB 1976



Maximum = 139.22

Average = 101.41

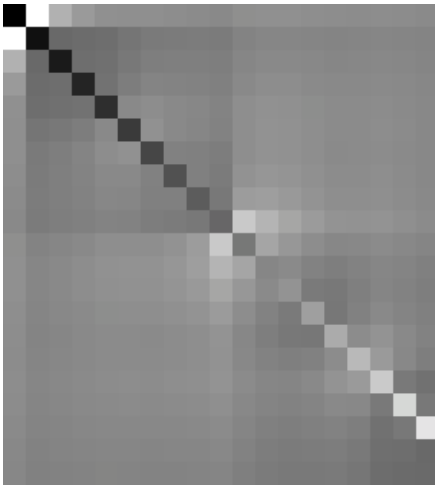
CieLAB 2000



Maximum = 137.74

Average = 83.4

CieCAM 2002



Maximum = 177.96

Average = 100.21

Minimum = 85.94

Deviation = 5.69

Minimum = 54.68

Deviation = 14.41

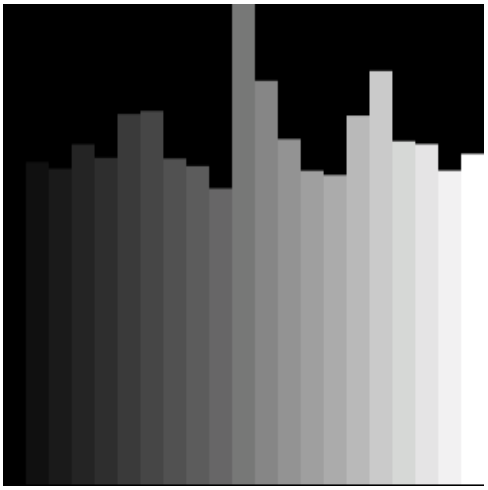
Minimum = 78.89

Deviation = 10.02

Local Speeds

The height of each column i shows the ratio of the distance between the i-th and (i+1)-st color of the color map and the difference of their corresponding values. The higher the loca speed, the higher is the colormap's' local discriminative power in this area.

CieLAB 1976



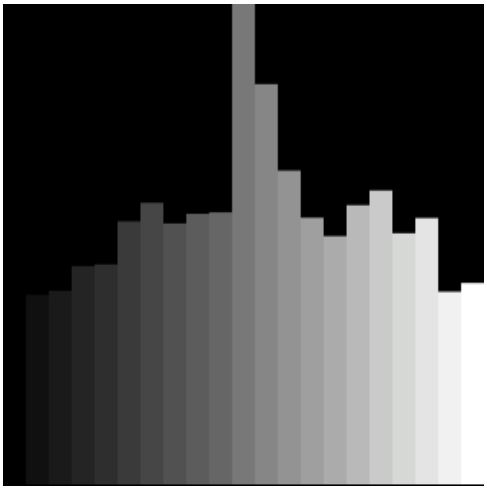
Maximum = 139.22

Average = 100.85

Minimum = 85.94

Deviation = 12.42

CieLAB 2000



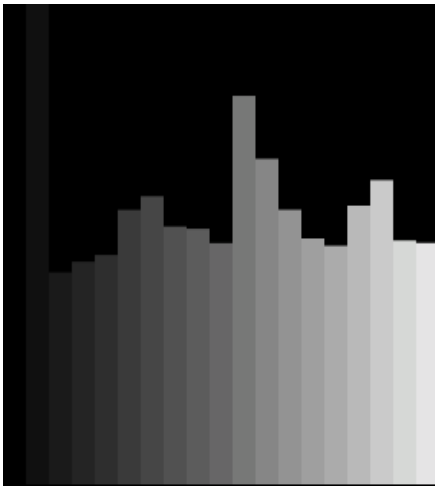
Maximum = 137.74

Average = 77.1

Minimum = 54.68

Deviation = 19.48

CieCAM 2002



Maximum = 177.96

Average = 100.92

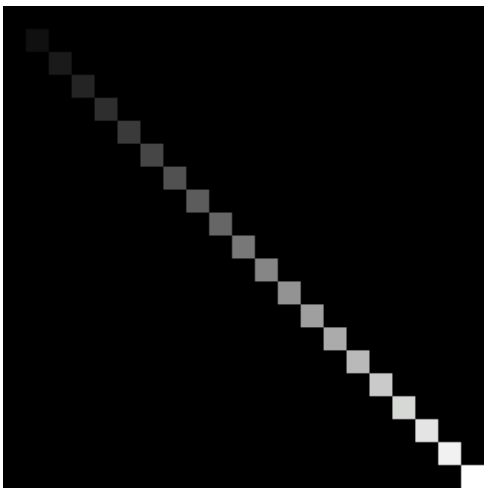
Minimum = 78.89

Deviation = 23.41

Global Triangle Distance Difference

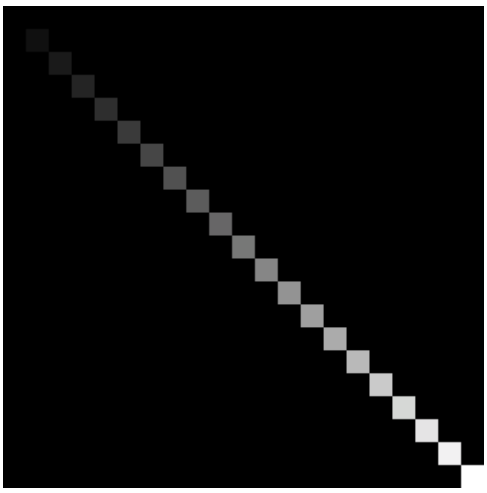
The cell (i,j) contains the asolute value of the mimum of |c(i)-c(j)|-|c(i)-c(k)| over all k between i and j (i < k < j). As long as it is positive, the middle color is closer to each of the two ou ones than theses are to each other. That means, the colormap has an intuitive order everywhere between i and j. That is why, we only plot the values that are nageative, i.e. where t global, intuitive order is violated.

CieLAB 1976



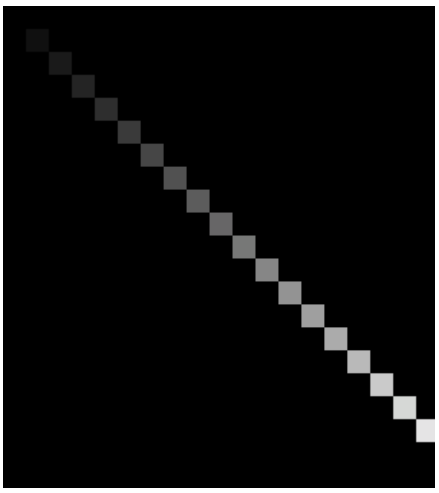
Minimum = 4.68

CieLAB 2000



Minimum = 1.86

CieCAM 2002



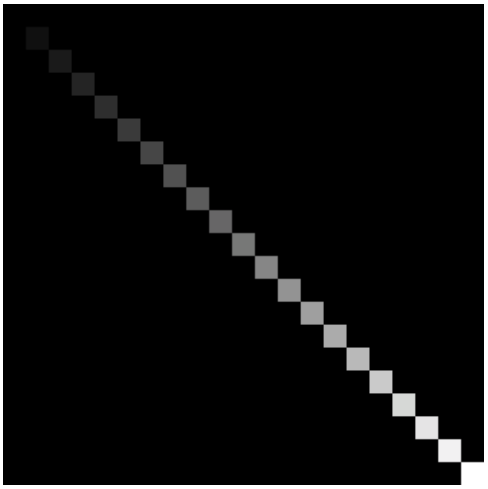
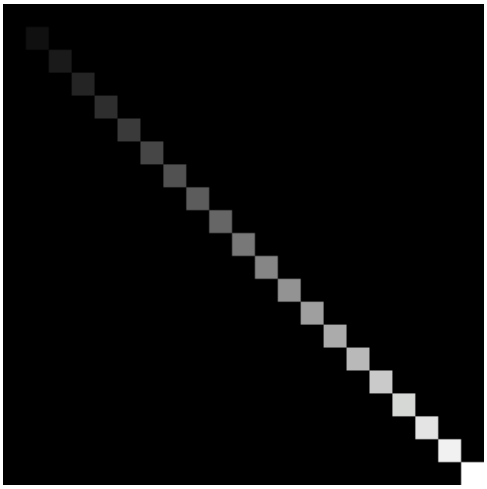
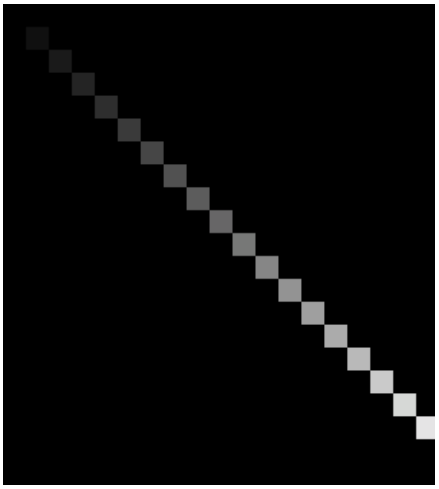
Minimum = 4

If there are k between i and j that violates the intuitive order, we plot the color c(k) that does so the most, i.e. the one that produces the minimum diplayed in the visualization above

CieLAB 1976

CieLAB 2000

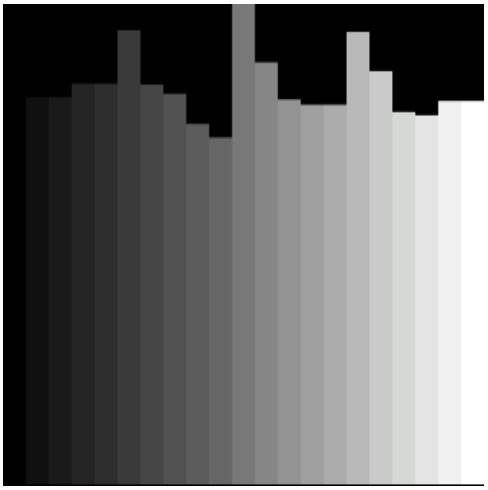
CieCAM 2002

Local Triangle Distance Difference

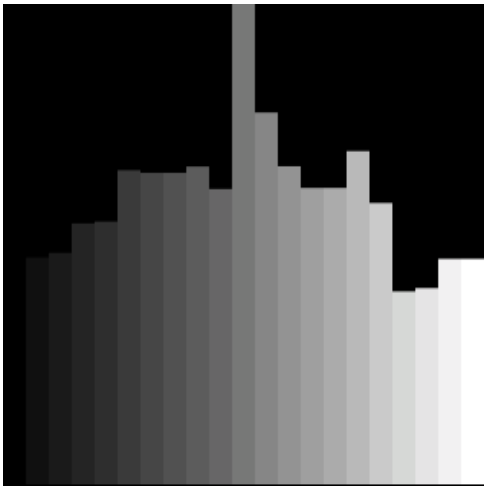
The height of each column i shows the absolute value of the minimum of |c(i)-c(i-1)|-|c(i+1)-c(i-1)| and |c(i+1)-c(i)|-|c(i+1)-c(i-1)|. As long as it is positive, the middle color c(i) is closer of the two outer ones than theses are to each other. That means, the colormap has a local, intuitive order in this area. The bars strat at zero.

CieLAB 1976



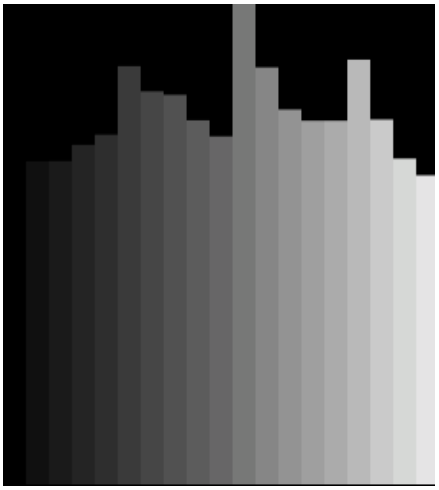
Minimum = 41.05

CieLAB 2000



Minimum = 23.25

CieCAM 2002



Minimum = 37.71

Stress

The stress is a global measure of how much the average color difference deviates from the corresponding value differeneces.

CieLAB 1976

Stress = 0.19

CieLAB 2000

Stress = 4.67

CieCAM 2002

Stress = 0.51

The Values for Copying

Columns are separated with "," and if applicable rows with ";" and the third tensor direction with ":".

Color Measure \ Distance Metric	CieLAB 1976	CieLAB 2000	CieCAM 2002
Global Distances	0,4.68,9.26,14.19,18.93,2	0,2.73,5.52,8.65,11.8,15.	0,8.89,12.84,16.98,21.24
Global Speeds	0,93.6,92.63,94.65,94.68	0,54.68,55.22,57.71,59.0	0,177.96,128.42,113.22,1
Local Speeds	93.6,93.6,91.65,98.68,94	54.68,54.68,55.82,62.85,	177.96,177.96,78.89,82.8
Triangle Distance Differences	0,0,0,0,0,0,0,0,0,0,0,0,0,(	0,0,0,0,0,0,0,0,0,0,0,0,0,(	0,0,0,0,0,0,0,0,0,0,0,0,0,(
Min Triangle Distance Differences	0,0,45.82,31.2,23.4,18.72	0,0,27.31,18.17,13.58,10	0,0,39.44,27.6,21.32,20.3
Local Triangle Distance Difference	45.82,45.82,45.82,47.39,	27.31,27.31,27.88,31.38,	39.44,39.44,39.44,41.41,