Figure 5: Further comparative visualisations generated using the Gradient Designer and LAB Colour Mixer Apps (left column) shown with supporting insights in CIELAB colour space provided through the GVLAB App (right column).

For details of the grid values being displayed, see the caption for Figure 4.

A) Kennett optimised, 16 step divergent colour map, with equiluminant termini with equivalent DeltaE from termini to midpoint;

B) As per B, with 48 steps;

C) 16 step divergent colour map, with equiluminant termini with enlarged DeltaE from termini to midpoint, enlarged DeltaE between termin;
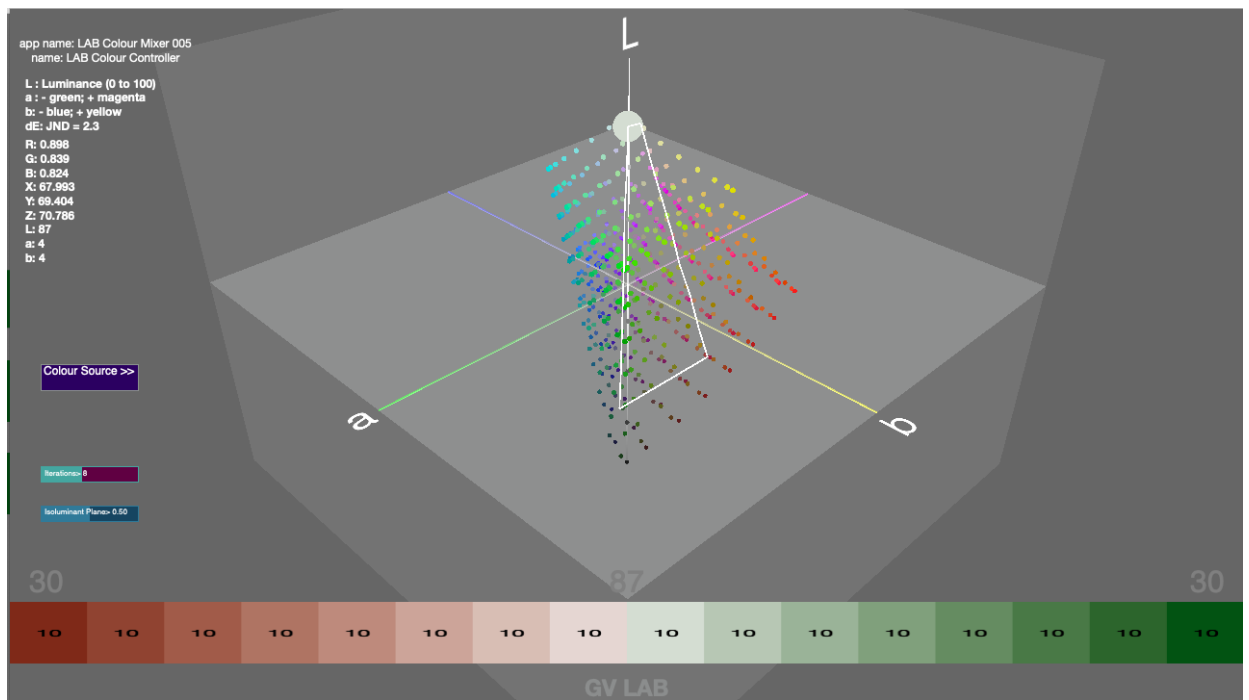
D) As per C, with 48 steps.

Note: Red-Green termini will present difficulties for viewers with deuteranopia, tritanopia.
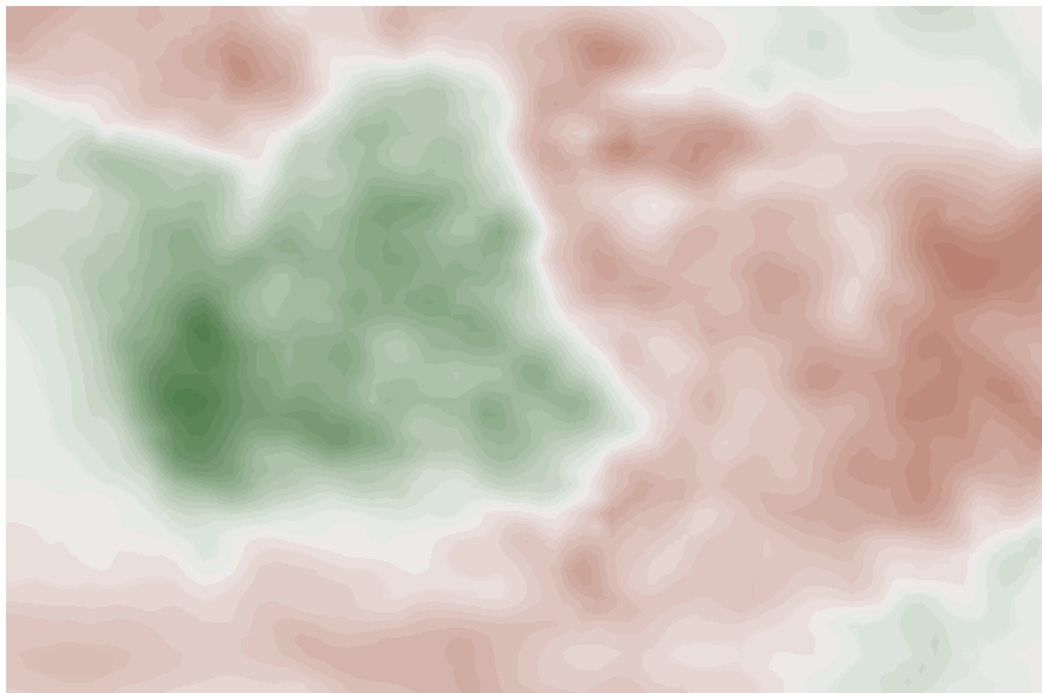
5A: Kennett Optimised. 16 steps. CIELAB interpolation. Isoluminant end termini with equivalent Delta E.
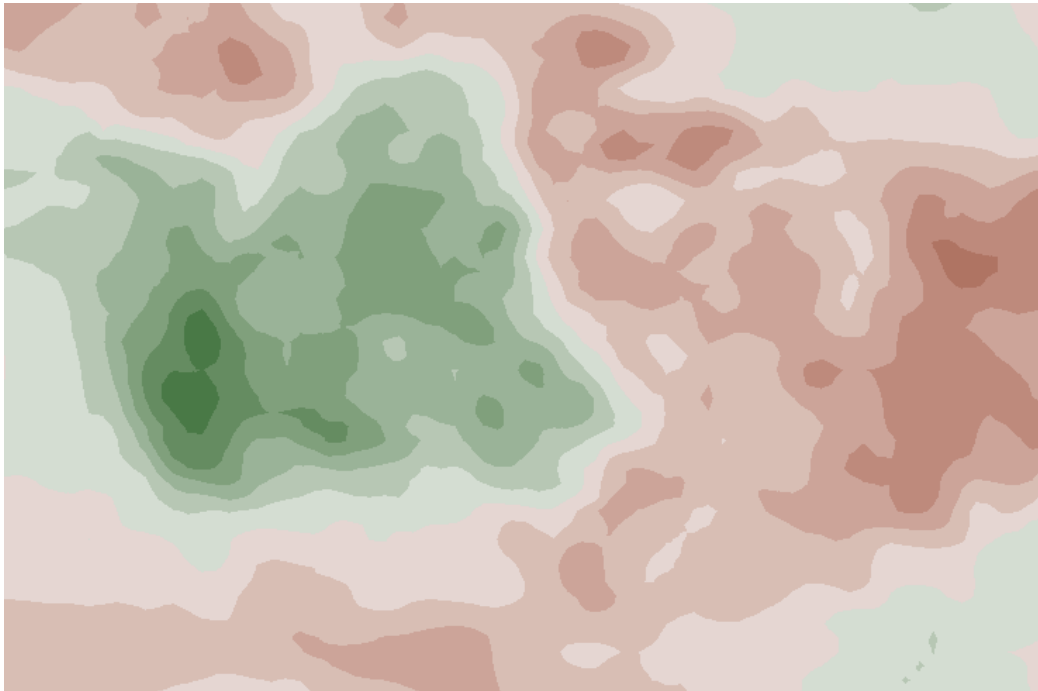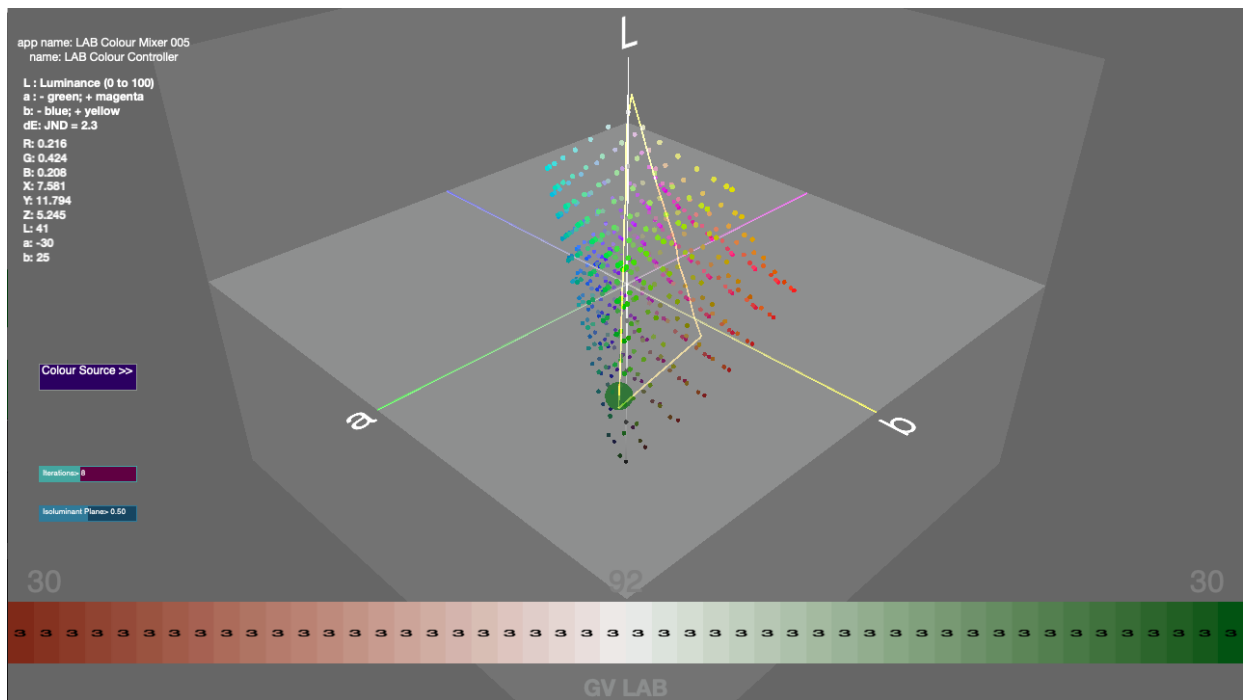

5A: CIELAB: Red (30,36,30), White (95,0,0), Green (30,-36,30). DeltaE-1 80,80 DeltaE-2 72. Each Delta E = 10.
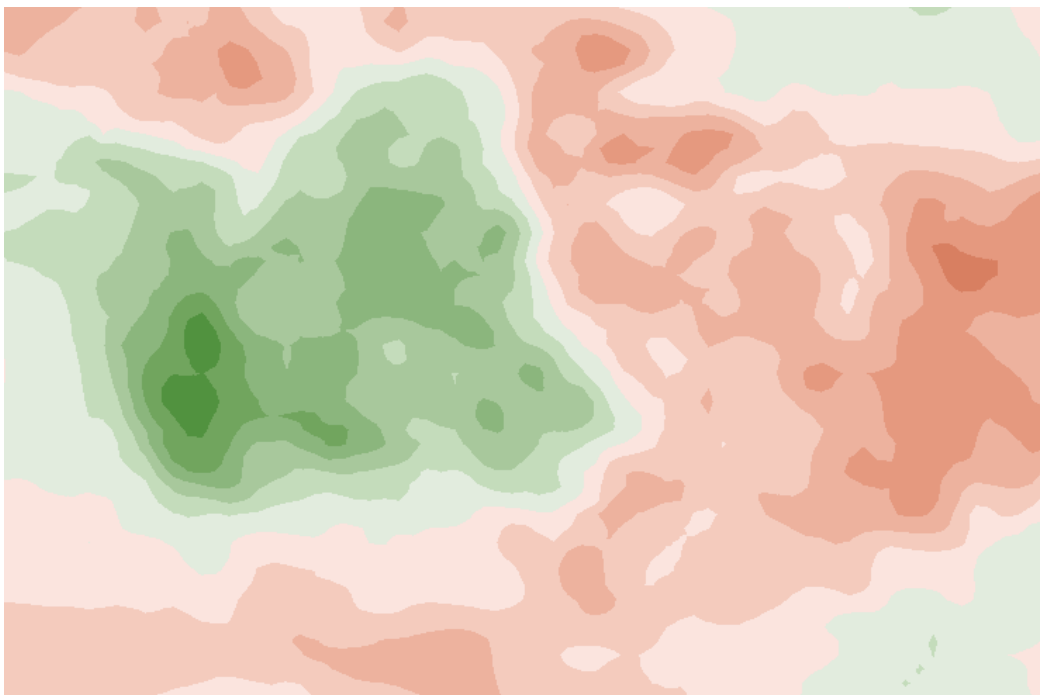
5B: Kennett Optimised. 48 steps. CIELAB interpolation. Isoluminant end termini with equivalent Delta E.
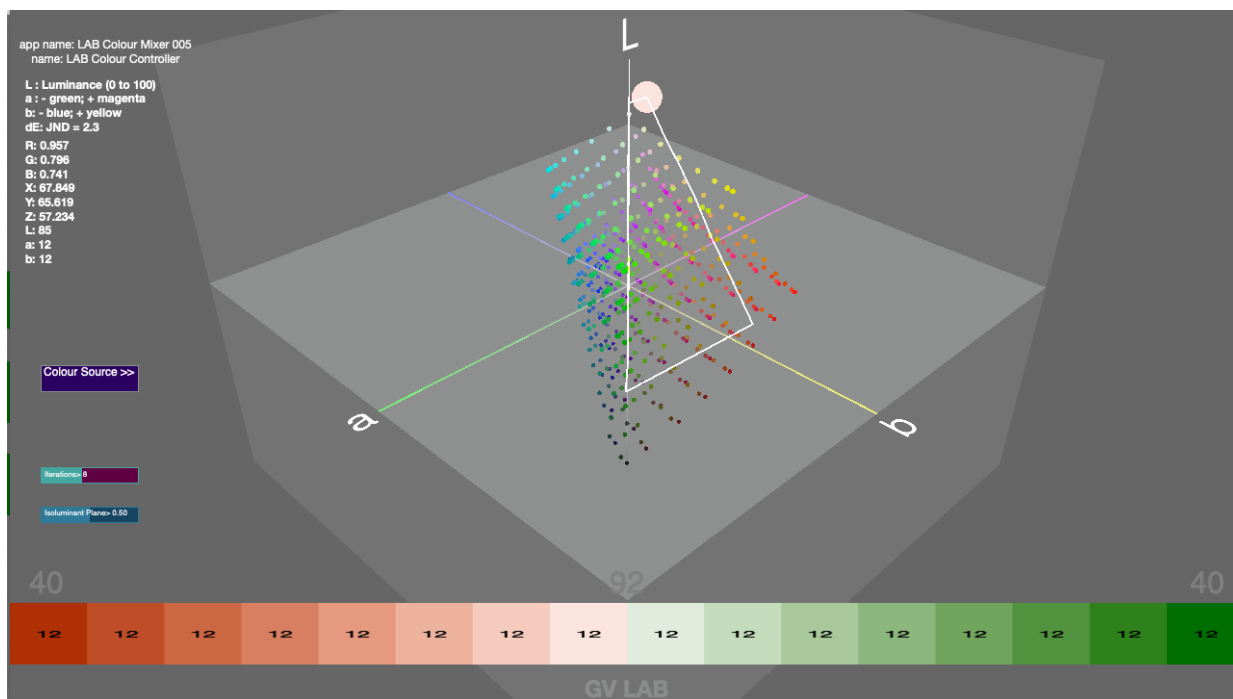

5B: CIELAB: Red (30,36,30), White (95,0,0), Green (30,-36,30). DeltaE-1 80,80 DeltaE-2 72. Each Delta E = 3.
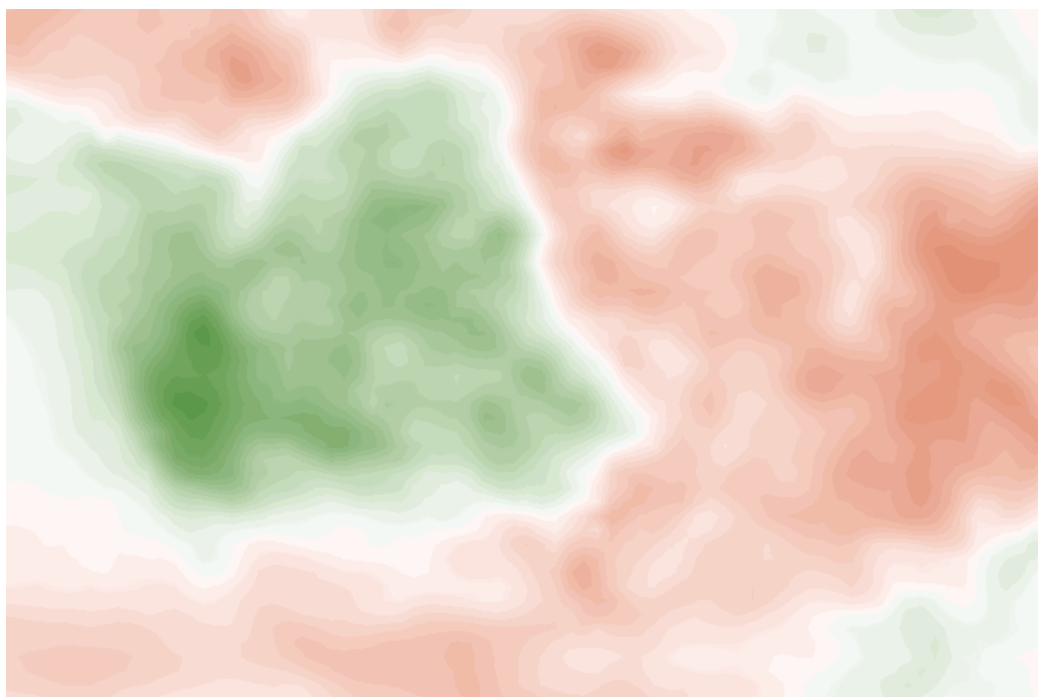
5C: Kennett Optimised. 16 steps. CIELAB interpolation. Isoluminant end termini with maximal equivalent Delta E.
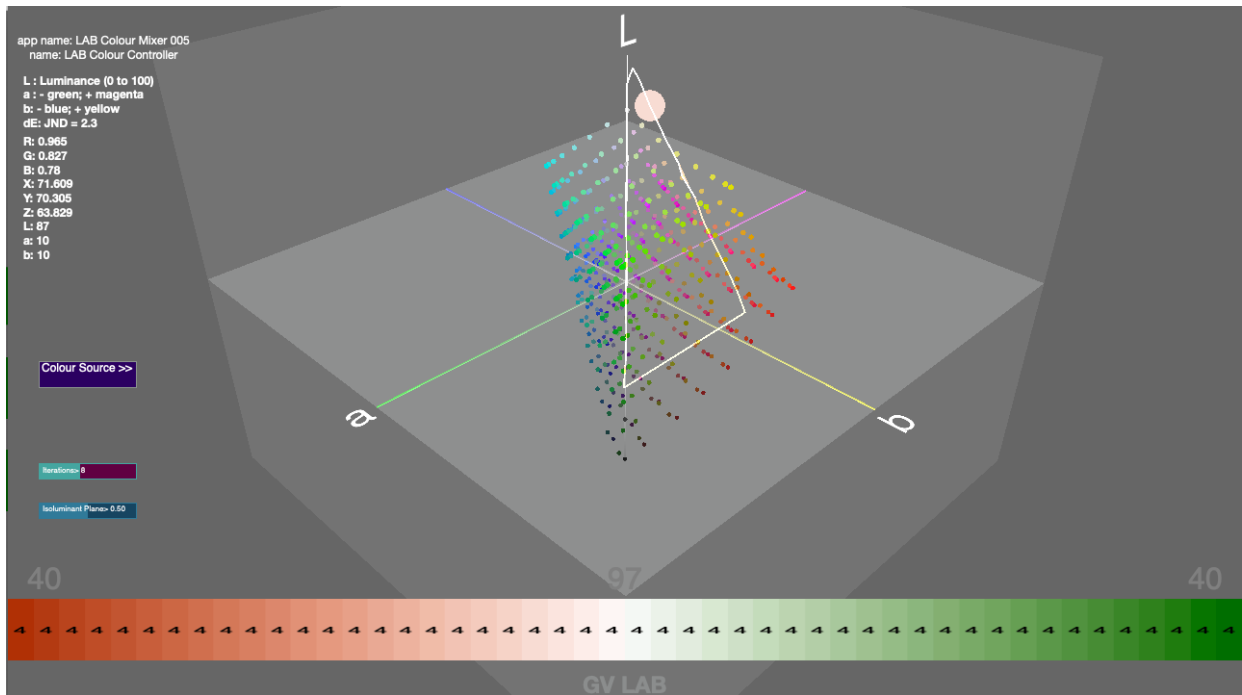

5C: CIELAB: Ochre (40,50,50), White (100,0,0), Green (40,-50,50). DeltaE-1 93,93, DeltaE-2 100. Each Delta E = 12

5D: Kennett Optimised. 48 steps. CIELAB interpolation. Isoluminant end termini with maximal equivalent Delta E.

5D: CIELAB: Ochre (40,50,50), White (100,0,0), Green (40,-50,50). DeltaE-1 93,93, DeltaE-2 100. Each Delta E = 4

app name: LAB Colour Mixer 005
name: LAB Colour Controller

L : Luminance (0 to 100)
a : - green; + magenta
b: - blue; + yellow
dE: JND = 2.3

R: 0.965
G: 0.827
B: 0.78
X: 71.609
Y: 70.305
Z: 63.829
L: 87
a: 10
b: 10

L

a

b

Colour Source >>

Iterations> 8

Isoluminant Plane> 0.50

40

97

40

GV LAB

Updated 2019-03-18