## Discriminability of 5 step colour series (Yes/No decision)

Chromatic X

5 steps, 4 differences

Layout example: three 5 step colour series HP Color Laserjet CP1514n There are three basic colours on each page: White W 5 steps, 4 differences

Black N, White W and Chromatic X. Ten pages include 10 hue planes X = OYLCVM and RJGB.

There are at maximum 12 distinguashable steps. PS test chart  $1 (rgb \rightarrow rgb_d)$ 

according to DIN 33872-2, file -> PS printer All steps of the three series N-W, W-X and X-N should be distiguishable on all pages. Are the three 5step series distinguishable on all pages? underline: Yes/No

in case of No: Are the three 5 step series on Page x of 10 pages distiguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

Page 1: Yes/No, if No 11/12 step differences are distinguashable of O = Orange Red Page 2: Yes/ $\overline{\text{No}}$ , if No 11/12 step differences are distinguashable of Y = Yellow

Page 3: Yes/No, if No .../12 step differences are distinguashable of L = Leaf green Page 4: Yes/No, if No .../12 step differences are distinguashable of C = Cyan blue

Page 5:  $\overline{\text{Yes/No}}$ , if No .../12 step differences are distinguashable of V = Violett blue Page 6: Yes/No, if No .../12 step differences are distinguashable of M = Magenta Red Page 7: Yes/No, if No 11/12 step differences are distinguashable of R = Elementary Red

Page 8: Yes/No, if No  $\frac{11}{12}$  step differences are distinguashable of J = Elementary yellow Page 9:  $\underline{Yes/No}$ , if No .../12 step differences are distinguashable of G = Elemantary Green

Page 10: Yes/No, if No ... /12 step differences are distinguashable of B = Elementary blue Sum: /10 Yes-Pages and/120 step differences are distingishable

See original or copy: http://web.me.com/klaus.richter/LE92/LE92L0NA.TXT /.PS Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

5 steps

16 steps

Part 2

Part 1 LE920-3, De120-3

## Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series HP Color Laserjet CP1514n There are three basic colours on each page: White W 16 steps, 15 differences Black N. White W and Chromatic X. Ten pages include 10 hue planes

> X = OYLCVM and RJGB. Chromatic X There are at maximum 45 distinguashable steps. PS test chart  $1 (rgb \rightarrow rgb_d)$ 16 steps, 15 differences

according to DIN 33872-2, file -> PS printer All steps of the three series N-W, W-X and X-N should be distinguishable on all pages.

Are the three 16step series distinguishable on all pages? underline: Yes/No in case of No: Are the three 16 step series on Page x of 10 pages distinguishable?

Underline Yes/No and give in case of No the number of distinguishable steps?

Page 1: Yes/No, if No 40/45 step differences are distinguashable of O = Orange Red Page 2: Yes/No, if No 40/45 step differences are distinguashable of Y = Yellow

Page 3: Yes/No, if No  $\frac{38}{45}$  step differences are distinguashable of L = Leaf green

Page 4: Yes/No, if No  $\frac{40}{45}$  step differences are distinguashable of C = Cyan blue Page 5: Yes/No, if No  $\frac{36}{45}$  step differences are distinguashable of V = Violett blue

Page 6: Yes/ $\overline{\text{No}}$ , if No 40/45 step differences are distinguashable of M = Magenta Red Page 7: Yes/ $\overline{No}$ , if No 40/45 step differences are distinguashable of R = Elementary Red

Page 8: Yes/ $\overline{No}$ , if No 40/45 step differences are distinguashable of J = Elementary yellow Page 9: Yes/No, if No 39/45 step differences are distinguashable of G = Elemantary Green Page 10: Yes/No, if No 39/45 step differences are distinguashable of B = Elementary blue

Sum: /10 Yes-Pages and/450 step differences are distingishable

Printer and offset print output, Discriminability of 5 and 16 step colour scales (Two Yes/No decisions)

Discriminability of 5 step colour series (Yes/No decision)

Layout example: three 5 step colour series RECS colour atlas, linearized offset print

White W 5 steps, 4 differences Black N, White W and Chromatic X. Ten pages include 10 hue planes Chromatic X X = OYLCVM and RJGB. 5 steps

> PDF test chart  $1 (rgb \rightarrow rgb*_{d} \rightarrow cmyn*_{d})$ 5 steps, 4 differences according to DIN 33872-2, file -> offset

All steps of the three series N-W, W-X and X-N should be distiguishable on all pages. Are the three 5step series distinguishable on all pages?

in case of No: Are the three 5 step series on Page x of 10 pages distiguishable? inapplicable Underline Yes/No and give in case of No the number of distinguishable steps?

Page 1: Yes/No, if No ../12 step differences are distinguashable of O = Orange Red

Page 2: Yes/No, if No ../12 step differences are distinguashable of Y = Yellow Page 3: Yes/No, if No ../12 step differences are distinguashable of L = Leaf green

Page 4: Yes/No, if No .../12 step differences are distinguashable of C = Cyan blue Page 5: Yes/No, if No ../12 step differences are distinguashable of V = Violett blue

Page 6: Yes/No, if No ../12 step differences are distinguashable of M = Magenta Red

Page 7: Yes/No, if No ../12 step differences are distinguashable of R = Elementary Red Page 8: Yes/No, if No ../12 step differences are distinguashable of J = Elementary yellow

Page 9: Yes/No, if No ../12 step differences are distinguashable of G = Elemantary Green Page 10: Yes/No, if No ../12 step differences are distinguashable of B = Elementary blue

Sum: ../10 Yes-Pages and .../120 step differences are distingishable

Part 3

Discriminability of 16 step colour series (Yes/No decision)

Layout example: three 16 step colour series **RECS colour atlas, linearized offset print** 

There are three basic colours on each page: White W 16 steps, 15 differences Black N. White W and Chromatic X.

Ten pages include 10 hue planes X = OYLCVM and RJGB. Chromatic X 16 steps

16 steps, 15 differences PDF test chart  $1 (rgb \rightarrow rgb*_{d} \rightarrow cmvn*_{d})$ 

All steps of the three series N-W, W-X and X-N should be distinguishable on all pages. Are the three 16step series distinguishable on all pages?

in case of No: Are the three 16 step series on Page x of 10 pages distinguishable? inapplicable Underline Yes/No and give in case of No the number of distinguishable steps?

Page 1: Yes/No, if No ../45 step differences are distinguashable of O = Orange Red

Page 2: Yes/No, if No .../45 step differences are distinguashable of Y = YellowPage 3: Yes/No, if No ../45 step differences are distinguashable of L = Leaf green

Page 4: Yes/No, if No ../45 step differences are distinguashable of C = Cyan blue

Page 5: Yes/No, if No ../45 step differences are distinguashable of V = Violett blue

6: Yes/No, if No ../45 step differences are distinguashable of M = Magenta Red 7: Yes/No, if No ../45 step differences are distinguashable of R = Elementary Red

Page 8: Yes/No, if No ../45 step differences are distinguashable of J = Elementary yellow

Page 9: Yes/No, if No ../45 step differences are distinguashable of G = Elemantary Green

Page 10: Yes/No, if No ../45 step differences are distinguashable of B = Elementary blue

Sum: ../10 Yes-Pages and .../450 step differences are distingishable

Part 4

input:  $rgb -> rgb_d$  setrgbcolor output:  $rgb \rightarrow rgb*_{d} set$  .. (offset)

Black