

# Colour and Colour Vision Elementary Colours in Information Technology

Author: Prof. Dr. Klaus Richter

25 standard colours for D65  
hue circle with 16 and 8 steps  
standard display sRGB  
rgb data:  $rgb^*e$  (top)  
elementary hue  $H^*$ , brilliance  $I^*$ ,  
chroma  $C^*$ :  $HIC^*e$  (bottom)

Special print for the exhibition  
**Colour and Colour Vision**  
Section Lighting Technology  
of the Berlin University of Technology  
Einsteinufer 19, D-10587 Berlin  
see: <http://www.li.tu-berlin.de>  
and <http://130.149.60.45/~farbmetrik>

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TUB-test chart PE76; hue circle; 16 and 8 steps  
25 standard colours for D65

input:  $rgb/cmyk \rightarrow rgb/cmyk$   
output: no change

TUB registration: 20150701-PE76/PE76L0FP.PDF /.PS  
application for measurement of offset print output

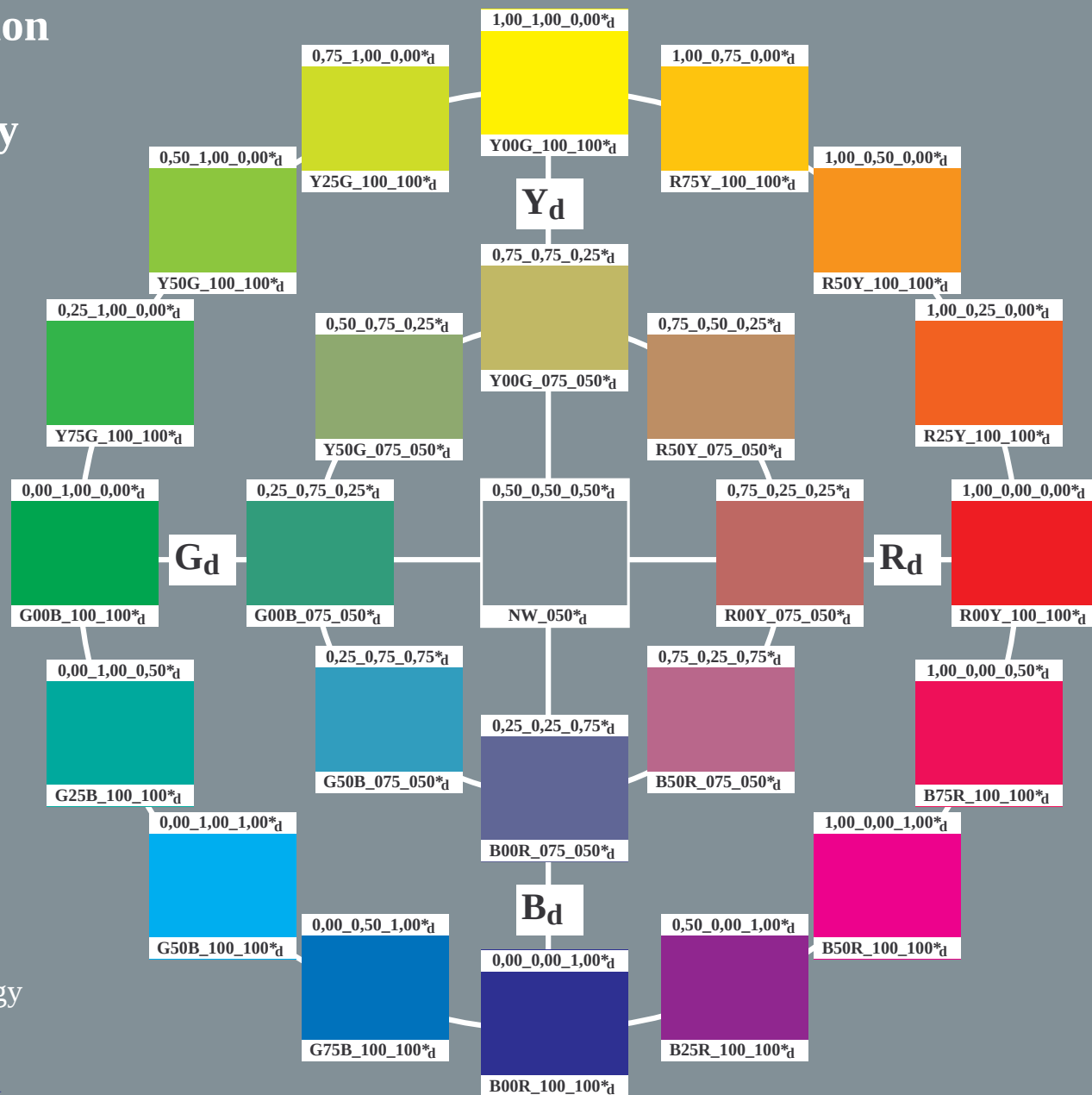
TUB material: code=rha4ta

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TUB-test chart PE76; hue circle; 16 and 8 steps  
25 standard colours for D65, 3D=1, de=0,  $cmY0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmY0^*_{dd}$

PE4600L\_120830.TXT, 1080 colors, Separation  $cmY0^*$

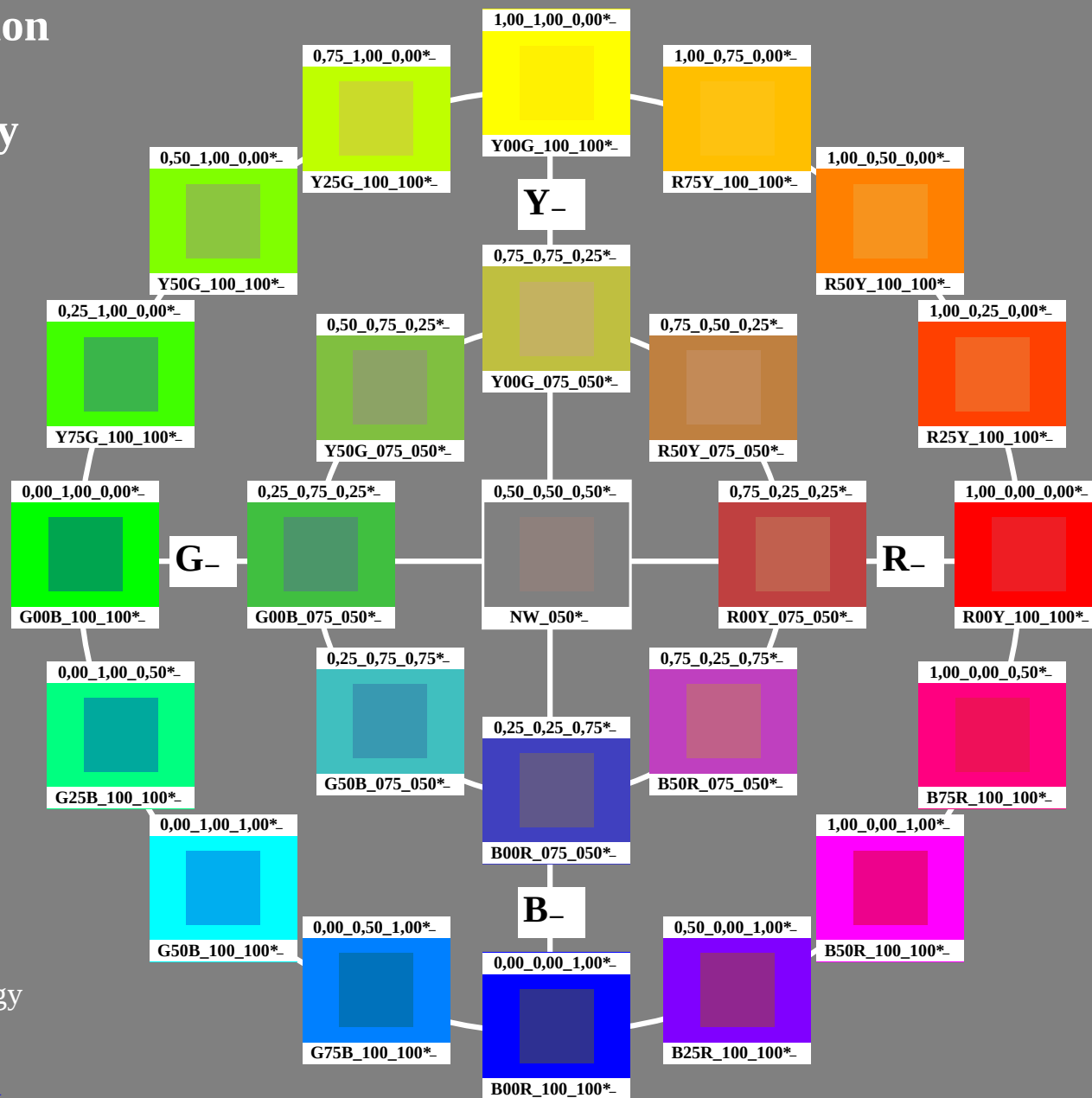
TUB registration: 20150701-PE76/PE76L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cmY0^*$  (CMY0)  
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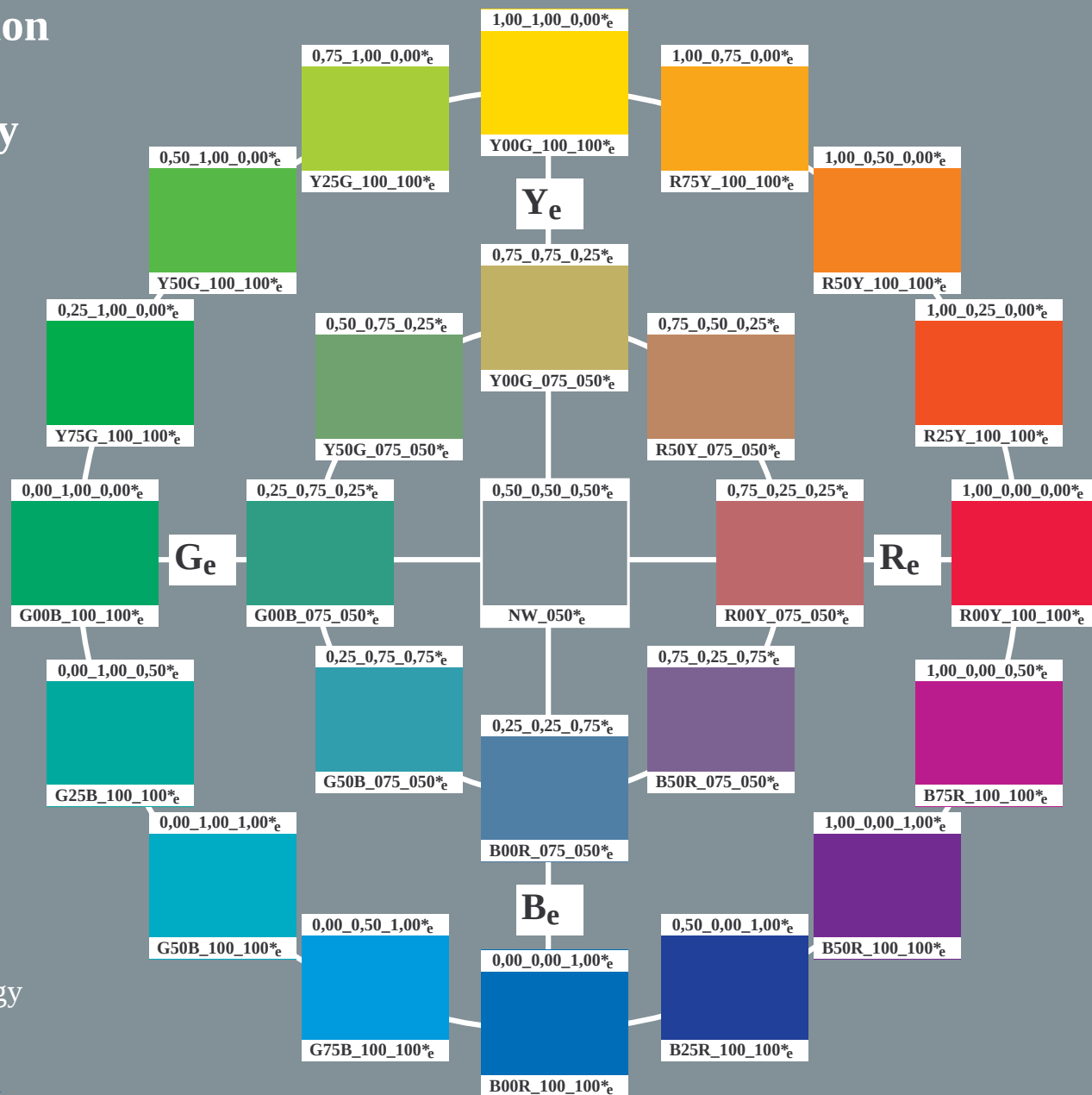


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1-113131-E0  
TUB-test chart PE76; hue circle; 16 and 8 steps  
25 standard colours for D65, 3D=1, de=1,  $cmy0^*$

input:  $rgb/cmyk \rightarrow rgb_{de}$   
output: 3D-linearization to  $cmy0^*_{de}$

PE4600L\_120830.TXT, 1080 colors, Separation  $cmy0^*$

TUB registration: 20150701-PE76/PE76L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cmy0^*$  (CMY0)  
TUB material: code=rha4ta