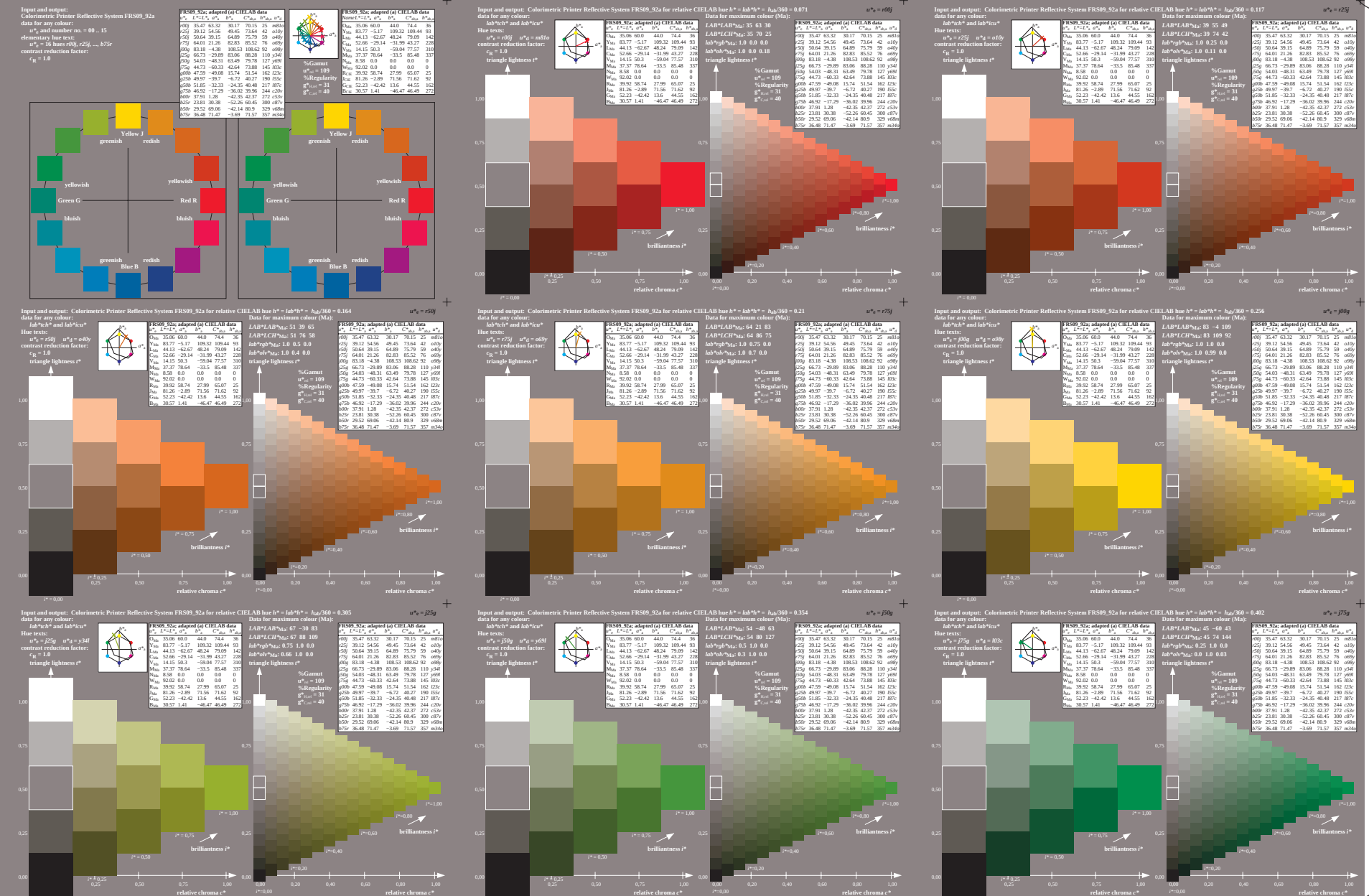
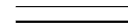
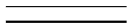
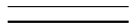


See for similar files: <http://www.ps.bam.de/Ee24/>; www.ps.bam.de/Ee24/; [http://www.ps.bam.de/Version 2.1, io=1,1, CIE LAB, ColSp=1](http://www.ps.bam.de/Version%202.1,%20io=1,1,CIE%20LAB,%20ColSp=1)





c

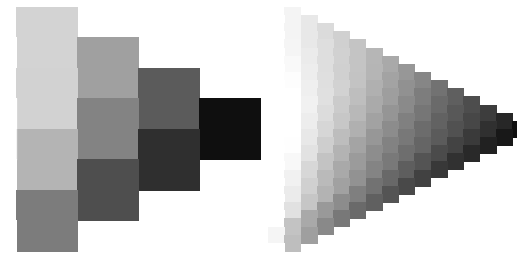
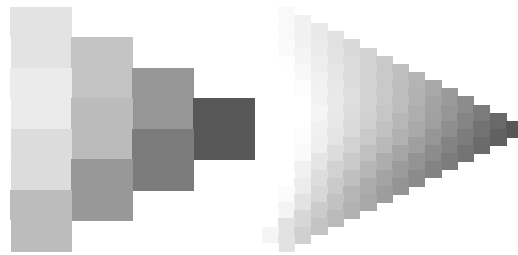
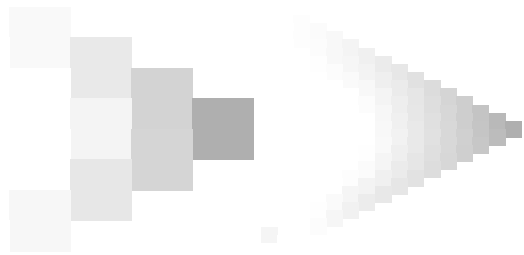
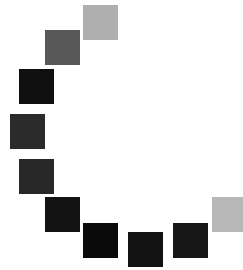
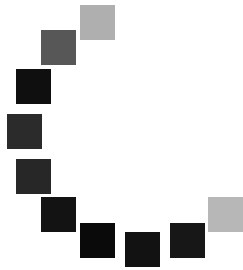


Figure 1 displays the relationship between relative chroma and relative brightness for various color spaces and conditions. The figure is organized into a 3x4 grid of plots, each showing a color calibration chart, a data table, and a main plot area.

Row 1: CIE L*a*b* and Lab/xyz

- Plot 1 (Top Left):** Input and output: Colorimetric Primer Reflective System FR509_32a. Data for any color: Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches (greenish, yellow, red, black, white, green, red, black, white, black) and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 2 (Top Middle):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.073$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 3 (Top Right):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.117$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).

Row 2: CIE L*u*v* and Lab/xyz

- Plot 4 (Middle Left):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.104$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 5 (Middle Middle):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.121$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 6 (Middle Right):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.154$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).

Row 3: CIE L*u*v* and Lab/xyz

- Plot 7 (Bottom Left):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.305$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 8 (Bottom Middle):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.334$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).
- Plot 9 (Bottom Right):** Input and output: Colorimetric Primer Reflective System FR509_32a for relative CIE LAB hue $h^* = \text{Lab}^*/\sqrt{a^{*2} + b^{*2}}$, $a^*/b^* = 0.402$. Data for maximum values (Max): Lab/xyz and Lab/xyz. Hue tests: $a^*_0 = 0.00$, $a^*_0 = 0.00$, contrast reduction factor: $\gamma_0 = 1.0$, triangle brightness l^* . The plot shows a color calibration chart with 10 color patches and a data table for maximum values (Max). The main plot shows relative chroma c^* on the x-axis (0.00 to 1.00) and relative brightness b^* on the y-axis (0.00 to 1.00). The plot area is divided into four quadrants by a diagonal line from (0,0) to (1,1).

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