

### Input and output:

Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number *no.* = 00 .. 15

device hue text:

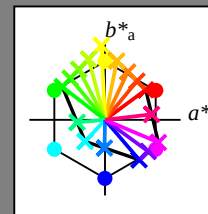
$u^*_d = 16$  hues *o00y*, *o25y*, ..., *m50o*

contrast reduction factor:

$c_R = 0.9$

### FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
|-------------|-------------|---------|---------|--------------|--------------|-------------|
| <i>o00y</i> | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i> | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i> | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i> | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i> | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i> | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i> | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i> | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i> | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i> | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i> | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i> | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i> | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i> | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i> | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i> | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut

$u^*_{rel} = 88$

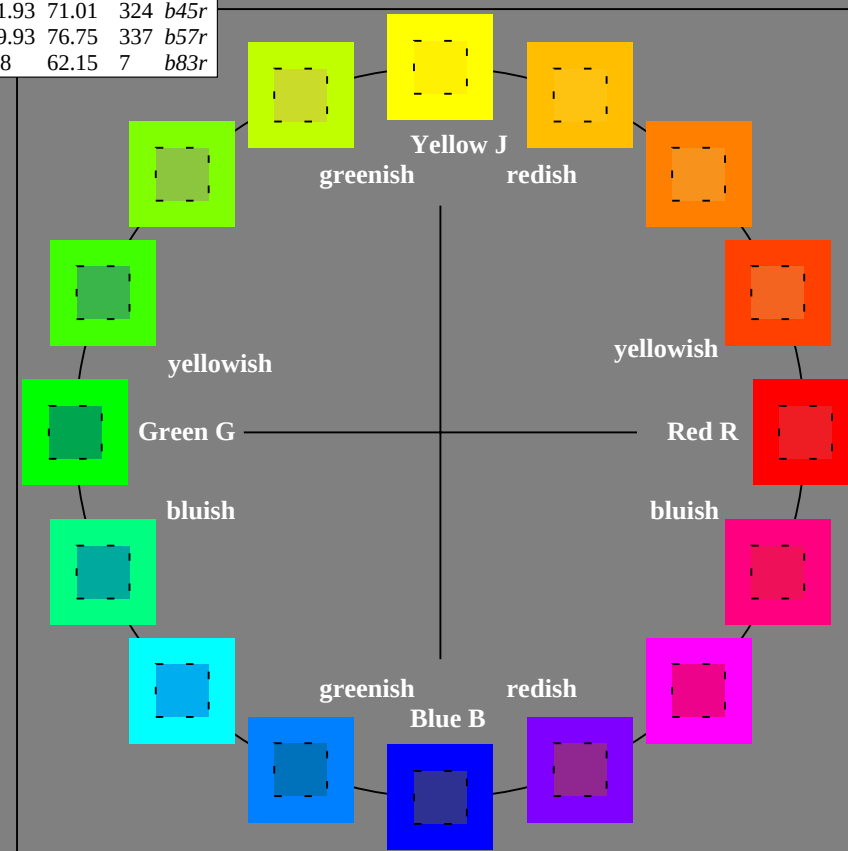
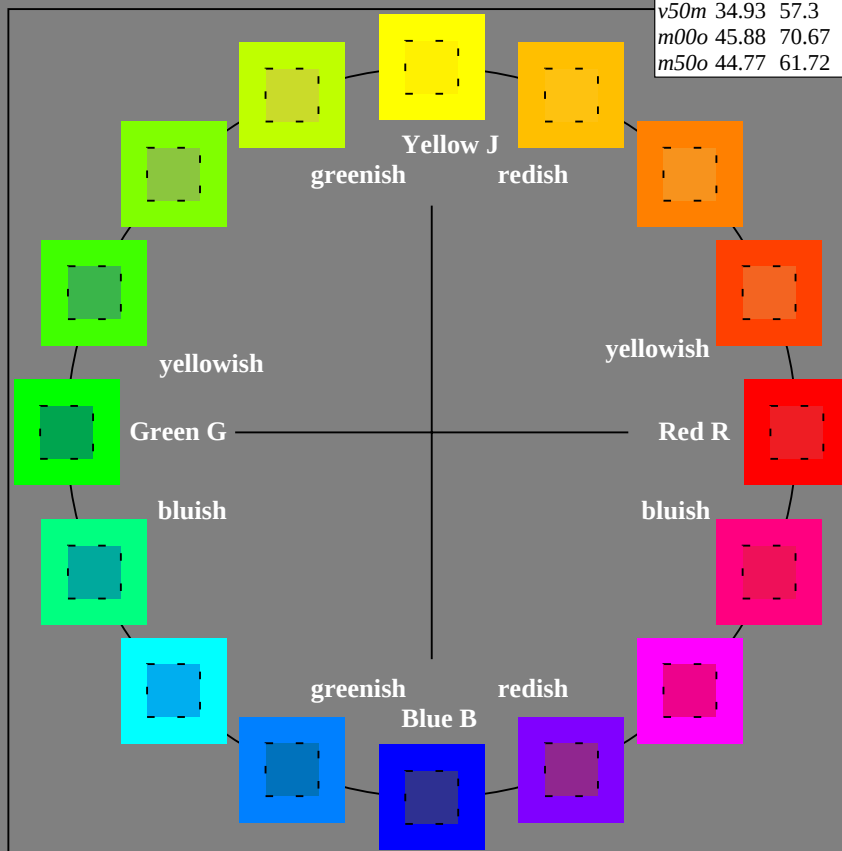
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

### FRS12\_95a; adapted (a) CIELAB data

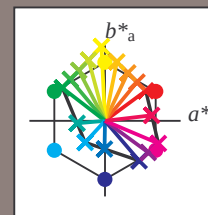
| Name             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| Y <sub>Ma</sub>  | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| L <sub>Ma</sub>  | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| C <sub>Ma</sub>  | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| V <sub>Ma</sub>  | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| M <sub>Ma</sub>  | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| N <sub>Ma</sub>  | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| O <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| Y <sub>CIE</sub> | 81.26       | -2.89   | 71.56   | 71.62        | 95           |
| L <sub>CIE</sub> | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| V <sub>CIE</sub> | 30.57       | 1.41    | -46.47  | 46.49        | 272          |



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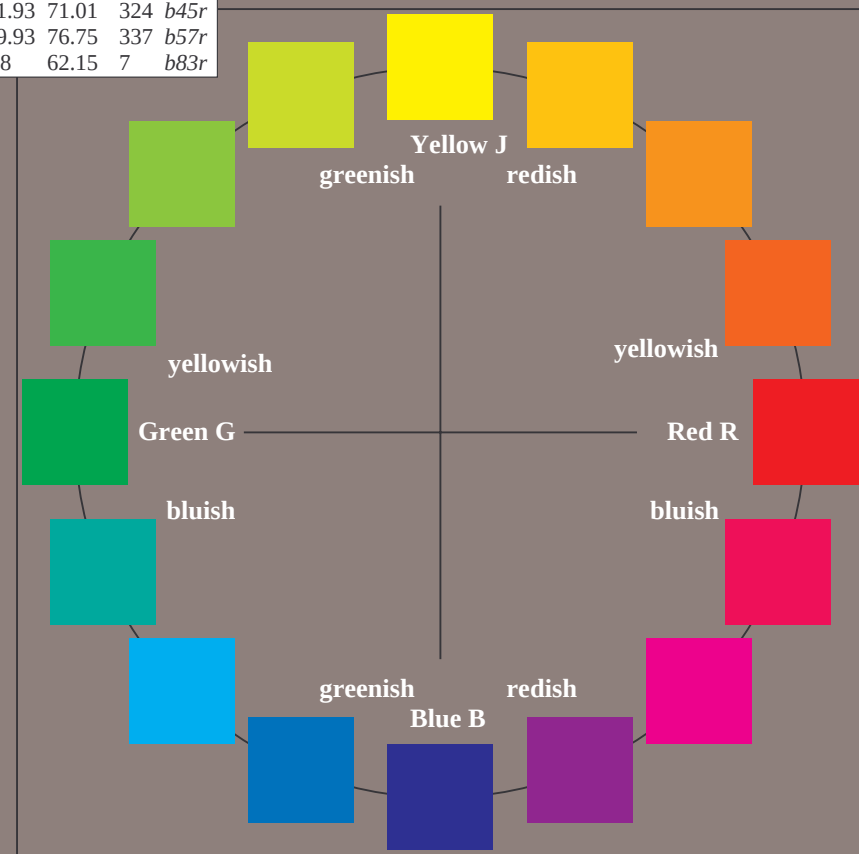
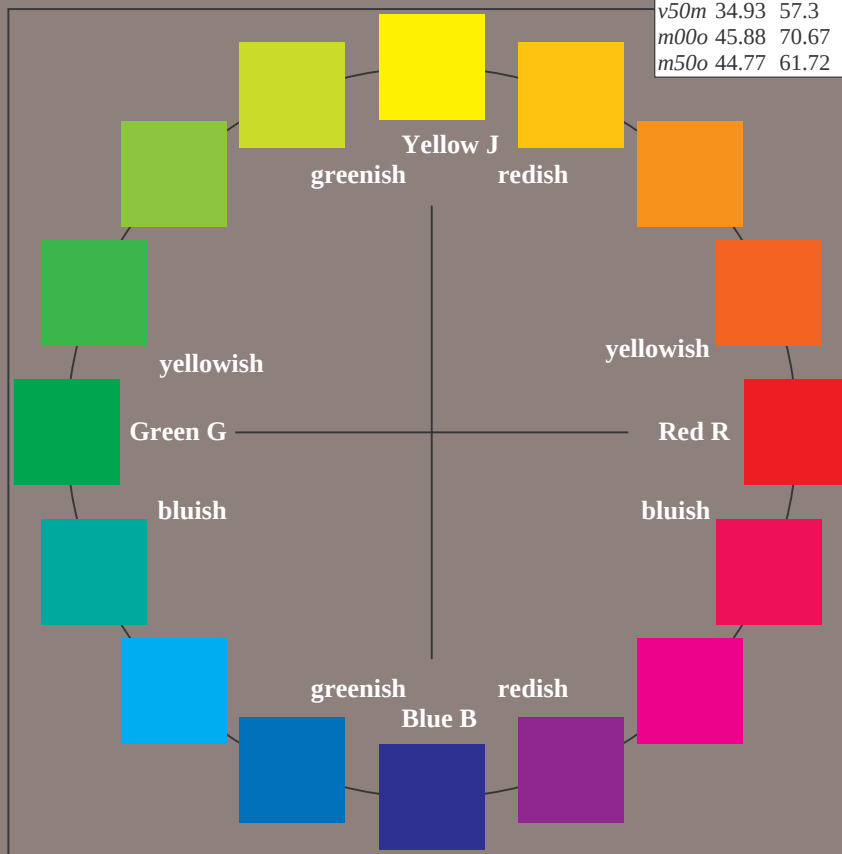
$u^*_d$  and number *no.* = 00 .. 15  
device hue text:  
 $u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*  
contrast reduction factor:  
 $c_R = 0.9$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |             |
|------------------------------------|-------------|---------|---------|--------------|--------------|-------------|
| $u^*_d$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
| <i>o00y</i>                        | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i>                        | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i>                        | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i>                        | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i>                        | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i>                        | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i>                        | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i>                        | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i>                        | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i>                        | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i>                        | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i>                        | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i>                        | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i>                        | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i>                        | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i>                        | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut  
 $u^*_{rel} = 88$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 39$

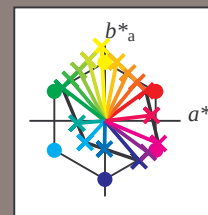
| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |
|------------------------------------|-------------|---------|---------|--------------|--------------|
| Name                               | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                    | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| Y <sub>Ma</sub>                    | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| L <sub>Ma</sub>                    | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| C <sub>Ma</sub>                    | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| V <sub>Ma</sub>                    | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| M <sub>Ma</sub>                    | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| N <sub>Ma</sub>                    | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                    | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| O <sub>CIE</sub>                   | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| Y <sub>CIE</sub>                   | 81.26       | -2.89   | 71.56   | 71.62        | 92           |
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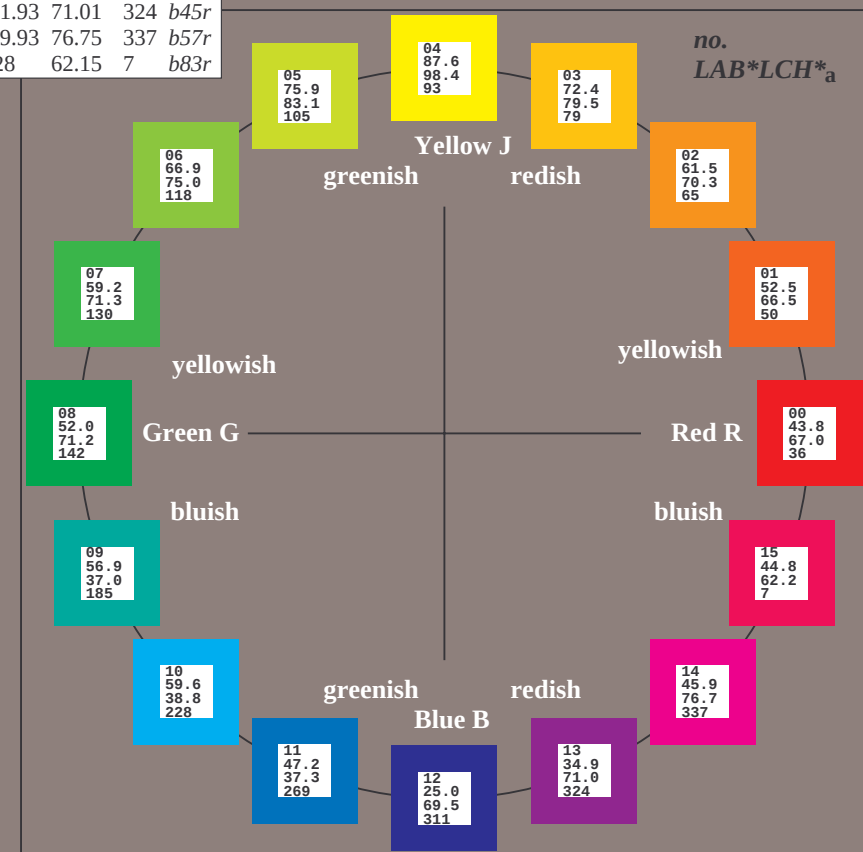
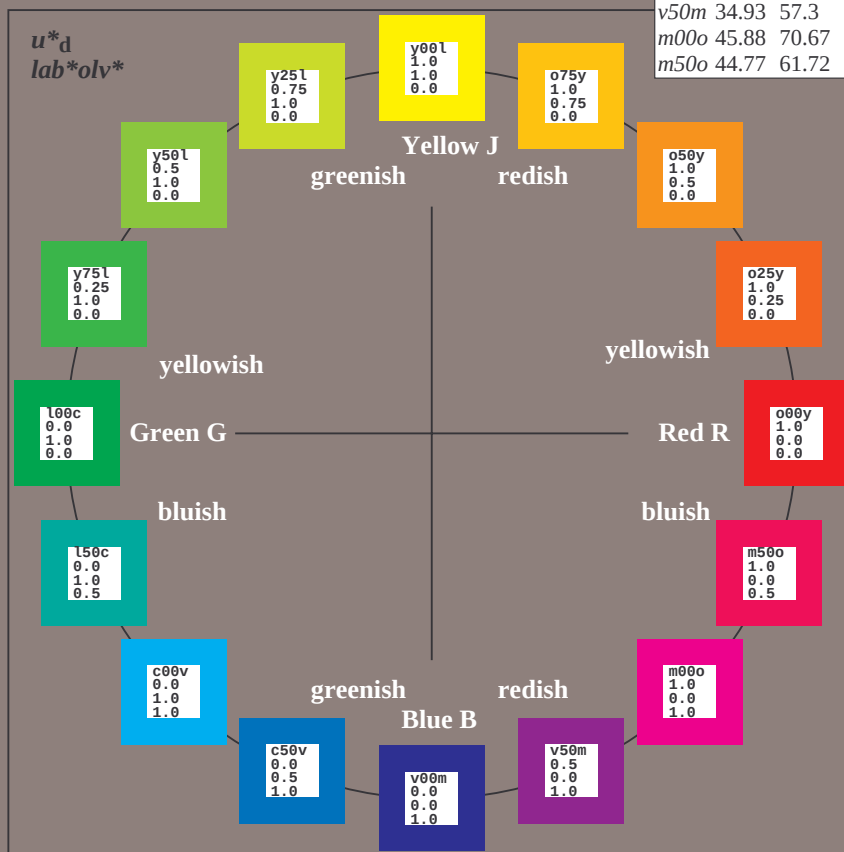
$u^*_d$  and number *no.* = 00 .. 15  
device hue text:  
 $u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*  
contrast reduction factor:  
 $c_R = 0.9$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |             |
|------------------------------------|-------------|---------|---------|--------------|--------------|-------------|
| $u^*_d$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
| <i>o00y</i>                        | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i>                        | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i>                        | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i>                        | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i>                        | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i>                        | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i>                        | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i>                        | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i>                        | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i>                        | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i>                        | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i>                        | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i>                        | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i>                        | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i>                        | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i>                        | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut  
 $u^*_{rel} = 88$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |
|------------------------------------|-------------|---------|---------|--------------|--------------|
| Name                               | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                    | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
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| V <sub>Ma</sub>                    | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| M <sub>Ma</sub>                    | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| N <sub>Ma</sub>                    | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                    | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| O <sub>CIE</sub>                   | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| Y <sub>CIE</sub>                   | 81.26       | -2.89   | 71.56   | 71.62        | 25           |
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$u^*_d$  and number *no.* = 00 .. 15

device hue text:

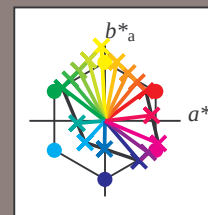
$u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*

contrast reduction factor:

$c_R = 0.9$

### FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
|-------------|-------------|---------|---------|--------------|--------------|-------------|
| <i>o00y</i> | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i> | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i> | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i> | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i> | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i> | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i> | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
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| <i>l00c</i> | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
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| <i>c00v</i> | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
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| <i>m50o</i> | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut

$u^*_{rel} = 88$

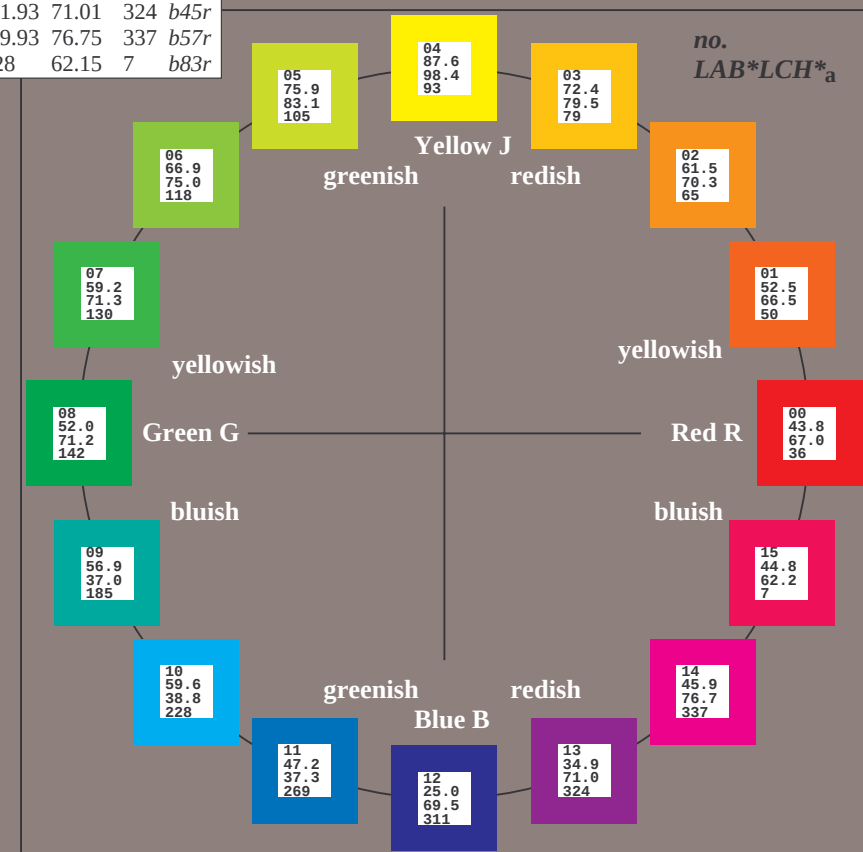
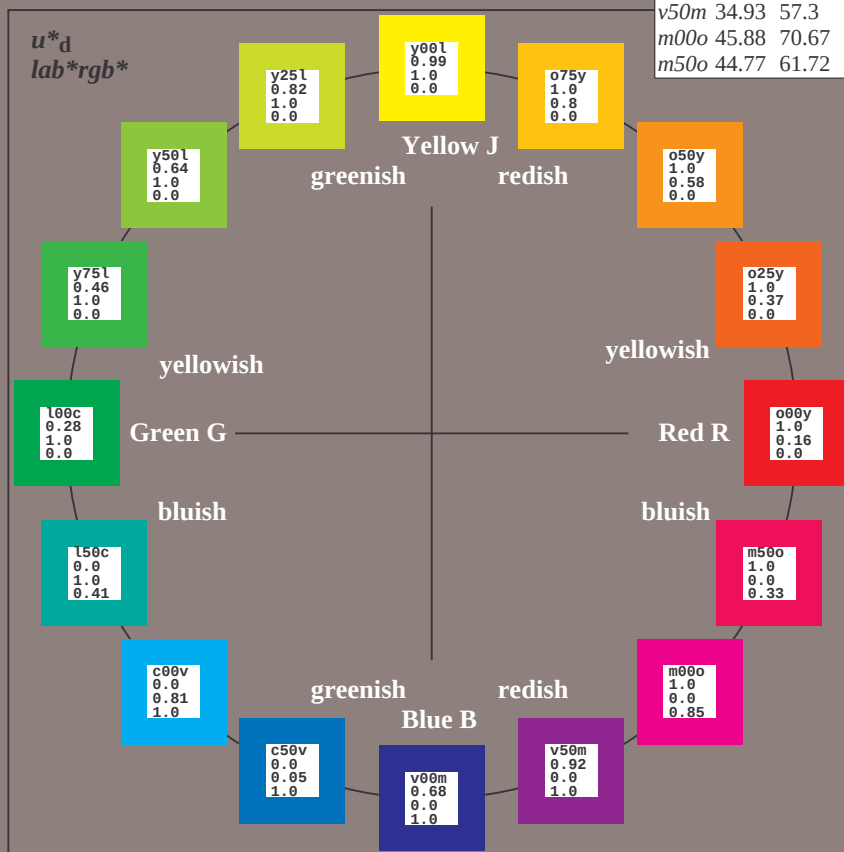
%Regularity

$g^*_{H,rel} = 31$

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### FRS12\_95a; adapted (a) CIELAB data

| Name             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
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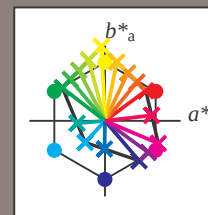
$u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*

contrast reduction factor:

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### FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
|-------------|-------------|---------|---------|--------------|--------------|-------------|
| <i>o00y</i> | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
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| <i>y00l</i> | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i> | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
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| <i>l00c</i> | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i> | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
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| <i>v00m</i> | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
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%Gamut

$u^*_{rel} = 88$

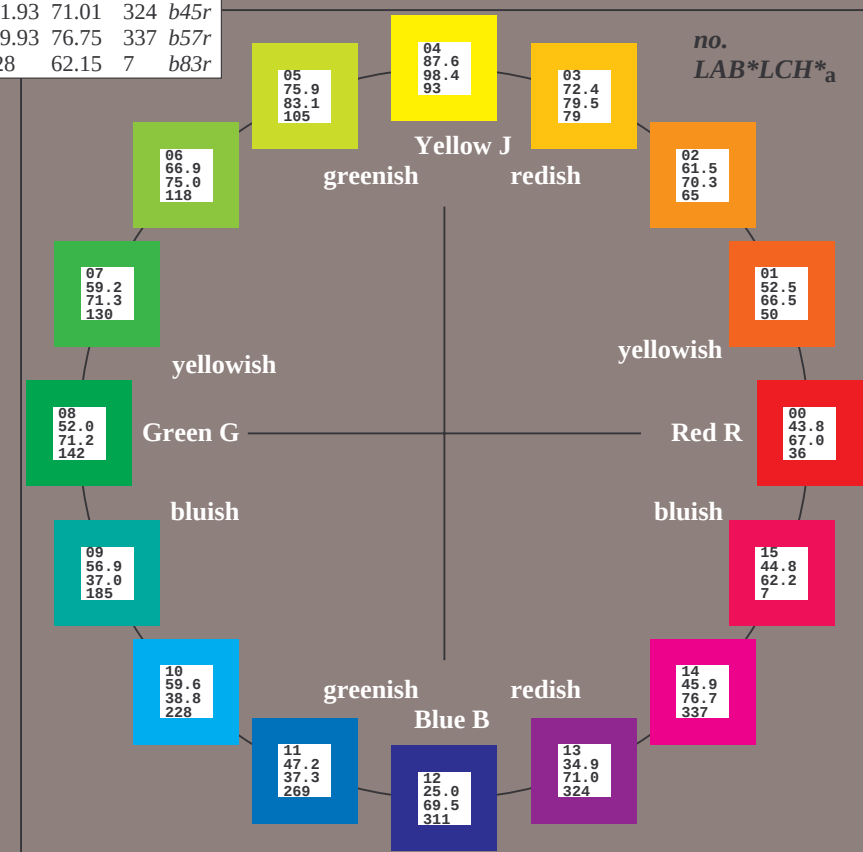
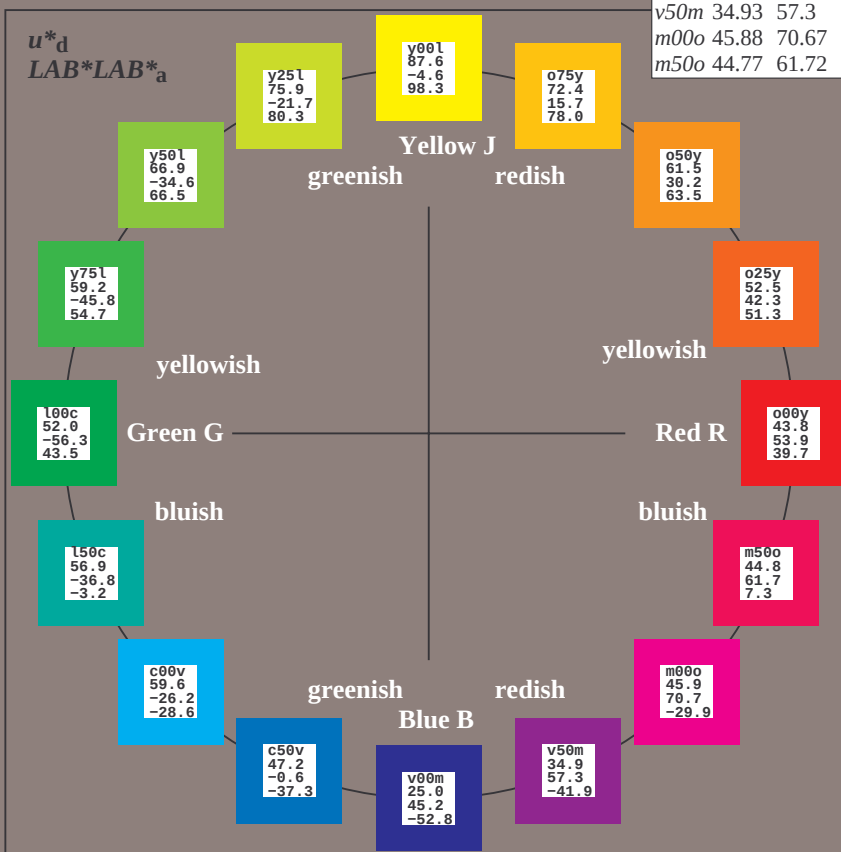
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

### FRS12\_95a; adapted (a) CIELAB data

| Name             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| Y <sub>Ma</sub>  | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| L <sub>Ma</sub>  | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| C <sub>Ma</sub>  | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| V <sub>Ma</sub>  | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| M <sub>Ma</sub>  | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| N <sub>Ma</sub>  | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| O <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| Y <sub>CIE</sub> | 81.26       | -2.89   | 71.56   | 71.62        | 25           |
| L <sub>CIE</sub> | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| V <sub>CIE</sub> | 30.57       | 1.41    | -46.47  | 46.49        | 272          |



### Input and output:

Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number  $no.$  = 00 .. 15

device hue text:

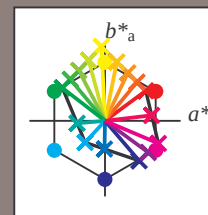
$u^*_d$  = 16 hues  $o00y$ ,  $o25y$ , ...,  $m50o$

contrast reduction factor:

$c_R = 0.9$

### FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$ |
|---------|-------------|---------|---------|--------------|--------------|---------|
| $o00y$  | 43.8        | 53.91   | 39.75   | 66.98        | 36           | $r16j$  |
| $o25y$  | 52.46       | 42.34   | 51.32   | 66.53        | 50           | $r37j$  |
| $o50y$  | 61.53       | 30.2    | 63.46   | 70.28        | 65           | $r58j$  |
| $o75y$  | 72.39       | 15.68   | 77.97   | 79.53        | 79           | $r79j$  |
| $y00l$  | 87.58       | -4.65   | 98.29   | 98.4         | 93           | $j01g$  |
| $y25l$  | 75.85       | -21.67  | 80.26   | 83.13        | 105          | $j18g$  |
| $y50l$  | 66.91       | -34.64  | 66.52   | 75.0         | 118          | $j36g$  |
| $y75l$  | 59.24       | -45.77  | 54.72   | 71.34        | 130          | $j53g$  |
| $l00c$  | 51.95       | -56.34  | 43.53   | 71.2         | 142          | $j71g$  |
| $l50c$  | 56.92       | -36.83  | -3.17   | 36.97        | 185          | $g21b$  |
| $c00v$  | 59.62       | -26.2   | -28.62  | 38.8         | 228          | $g60b$  |
| $c50v$  | 47.22       | -0.62   | -37.28  | 37.29        | 269          | $g97b$  |
| $v00m$  | 25.01       | 45.2    | -52.8   | 69.51        | 311          | $b34r$  |
| $v50m$  | 34.93       | 57.3    | -41.93  | 71.01        | 324          | $b45r$  |
| $m00o$  | 45.88       | 70.67   | -29.93  | 76.75        | 337          | $b57r$  |
| $m50o$  | 44.77       | 61.72   | 7.28    | 62.15        | 7            | $b83r$  |



%Gamut

$u^*_{rel} = 88$

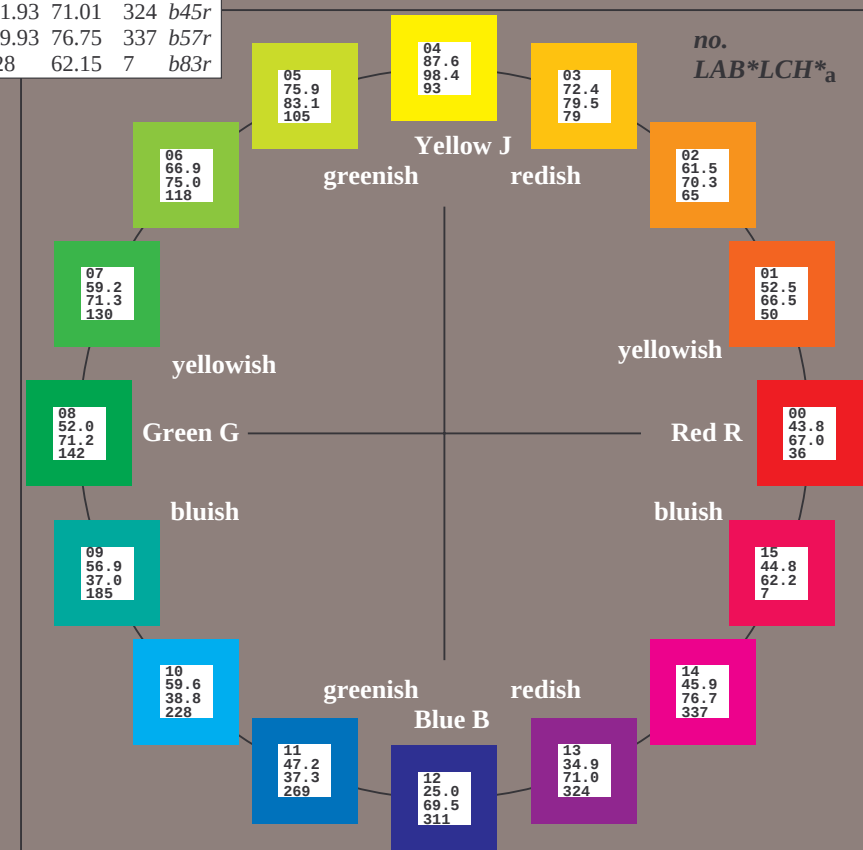
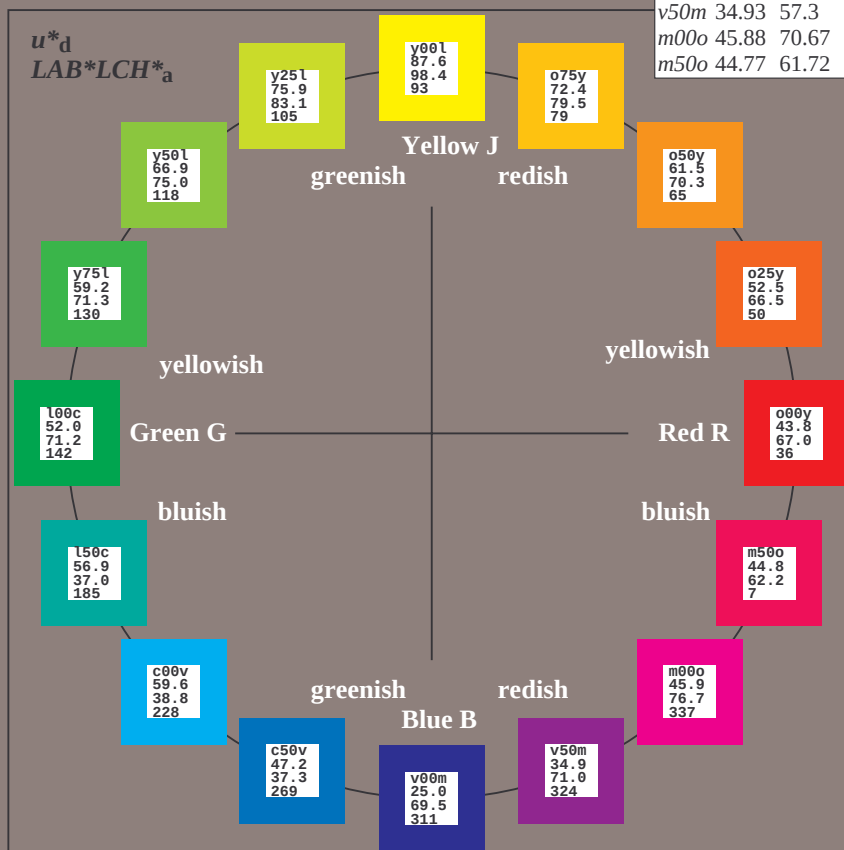
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

### FRS12\_95a; adapted (a) CIELAB data

| Name      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_{Ma}$  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| $Y_{Ma}$  | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| $L_{Ma}$  | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| $C_{Ma}$  | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| $V_{Ma}$  | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| $M_{Ma}$  | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| $N_{Ma}$  | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$  | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| $O_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| $Y_{CIE}$ | 81.26       | -2.89   | 71.56   | 71.62        | 92           |
| $L_{CIE}$ | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| $V_{CIE}$ | 30.57       | 1.41    | -46.47  | 46.49        | 272          |





Input and output:  
Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number  $no.$  = 00 .. 15

device hue text:

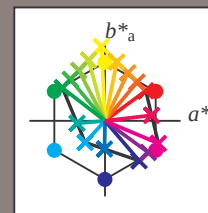
$u^*_d$  = 16 hues  $o00y$ ,  $o25y$ , ...,  $m50o$

contrast reduction factor:

$c_R = 0.9$

FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$ |
|---------|-------------|---------|---------|--------------|--------------|---------|
| $o00y$  | 43.8        | 53.91   | 39.75   | 66.98        | 36           | $r16j$  |
| $o25y$  | 52.46       | 42.34   | 51.32   | 66.53        | 50           | $r37j$  |
| $o50y$  | 61.53       | 30.2    | 63.46   | 70.28        | 65           | $r58j$  |
| $o75y$  | 72.39       | 15.68   | 77.97   | 79.53        | 79           | $r79j$  |
| $y00l$  | 87.58       | -4.65   | 98.29   | 98.4         | 93           | $j01g$  |
| $y25l$  | 75.85       | -21.67  | 80.26   | 83.13        | 105          | $j18g$  |
| $y50l$  | 66.91       | -34.64  | 66.52   | 75.0         | 118          | $j36g$  |
| $y75l$  | 59.24       | -45.77  | 54.72   | 71.34        | 130          | $j53g$  |
| $l00c$  | 51.95       | -56.34  | 43.53   | 71.2         | 142          | $j71g$  |
| $l50c$  | 56.92       | -36.83  | -3.17   | 36.97        | 185          | $g21b$  |
| $c00v$  | 59.62       | -26.2   | -28.62  | 38.8         | 228          | $g60b$  |
| $c50v$  | 47.22       | -0.62   | -37.28  | 37.29        | 269          | $g97b$  |
| $v00m$  | 25.01       | 45.2    | -52.8   | 69.51        | 311          | $b34r$  |
| $v50m$  | 34.93       | 57.3    | -41.93  | 71.01        | 324          | $b45r$  |
| $m00o$  | 45.88       | 70.67   | -29.93  | 76.75        | 337          | $b57r$  |
| $m50o$  | 44.77       | 61.72   | 7.28    | 62.15        | 7            | $b83r$  |



%Gamut

$u^*_{rel} = 88$

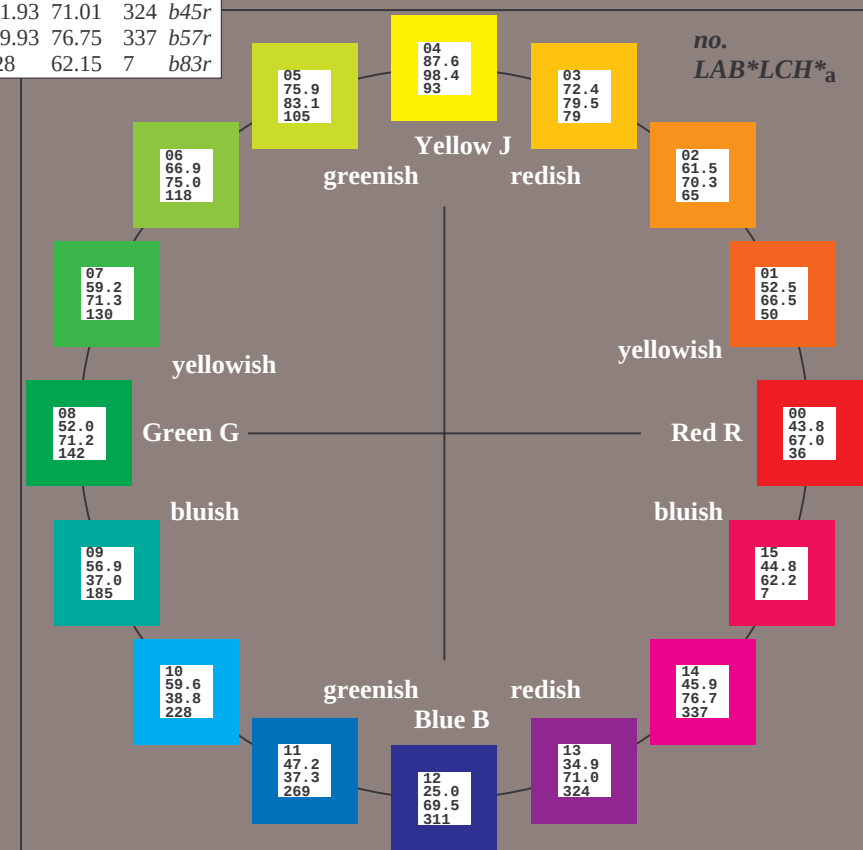
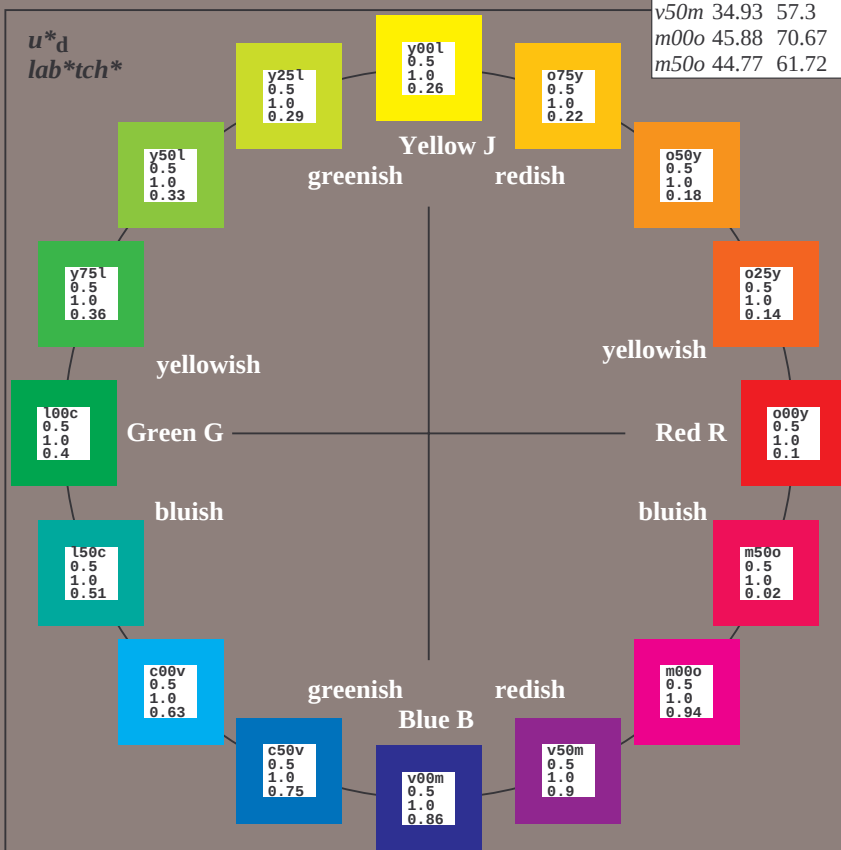
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

FRS12\_95a; adapted (a) CIELAB data

| Name      | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_{Ma}$  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| $Y_{Ma}$  | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| $L_{Ma}$  | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| $C_{Ma}$  | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| $V_{Ma}$  | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| $M_{Ma}$  | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| $N_{Ma}$  | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{Ma}$  | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| $O_{CIE}$ | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| $Y_{CIE}$ | 81.26       | -2.89   | 71.56   | 71.62        | 95           |
| $L_{CIE}$ | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| $V_{CIE}$ | 30.57       | 1.41    | -46.47  | 46.49        | 272          |



Input and output:  
Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number *no.* = 00 .. 15

device hue text:

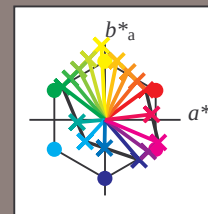
$u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*

contrast reduction factor:

$c_R = 0.9$

FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
|-------------|-------------|---------|---------|--------------|--------------|-------------|
| <i>o00y</i> | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i> | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i> | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i> | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i> | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i> | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i> | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i> | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i> | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i> | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i> | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i> | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i> | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i> | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i> | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i> | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut

$u^*_{rel} = 88$

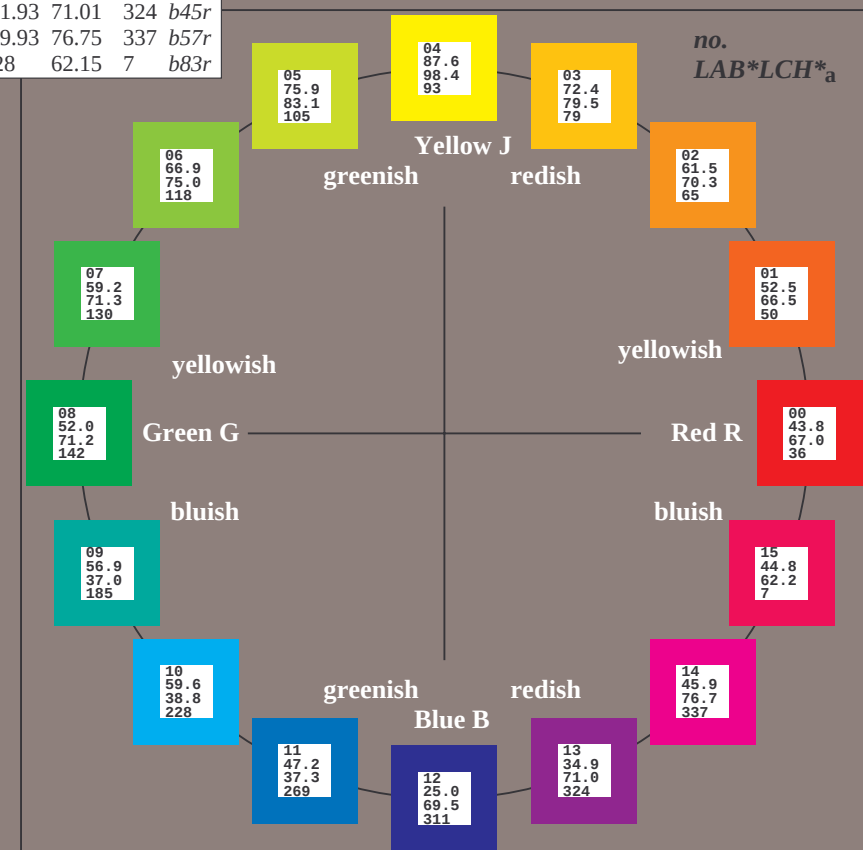
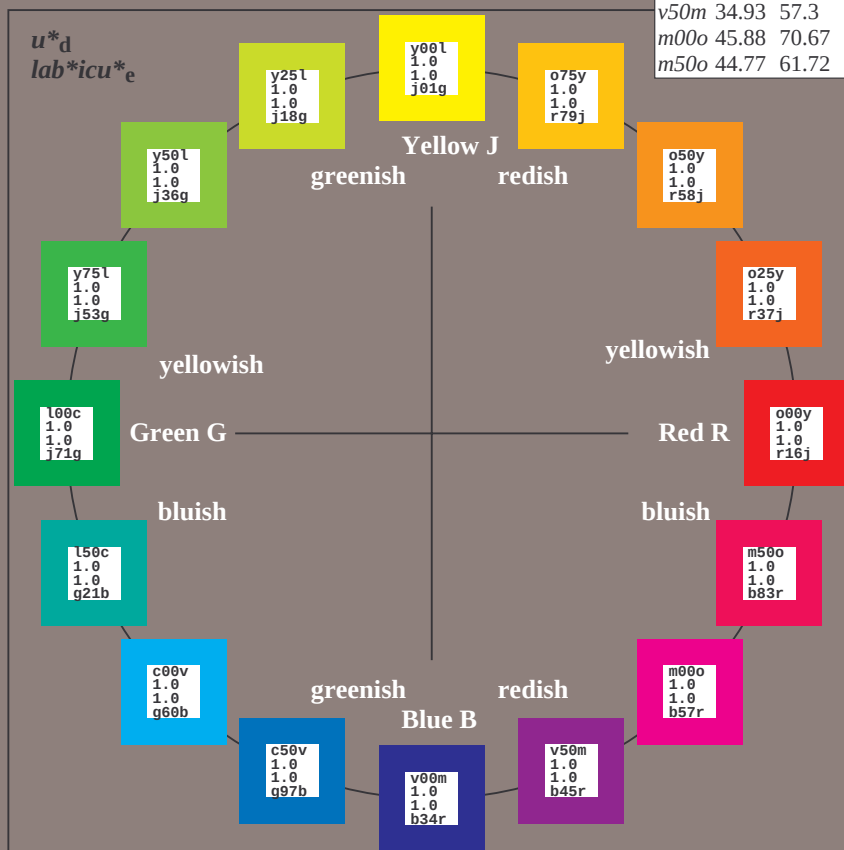
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

FRS12\_95a; adapted (a) CIELAB data

| Name             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
| Y <sub>Ma</sub>  | 87.58       | -4.65   | 98.29   | 98.4         | 93           |
| L <sub>Ma</sub>  | 51.95       | -56.34  | 43.53   | 71.2         | 142          |
| C <sub>Ma</sub>  | 59.62       | -26.2   | -28.62  | 38.8         | 228          |
| V <sub>Ma</sub>  | 25.01       | 45.2    | -52.8   | 69.51        | 311          |
| M <sub>Ma</sub>  | 45.88       | 70.67   | -29.93  | 76.75        | 337          |
| N <sub>Ma</sub>  | 20.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.0        | 0.0     | 0.0     | 0.0          | 0            |
| O <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 92           |
| Y <sub>CIE</sub> | 81.26       | -2.89   | 71.56   | 71.62        | 25           |
| L <sub>CIE</sub> | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| V <sub>CIE</sub> | 30.57       | 1.41    | -46.47  | 46.49        | 272          |

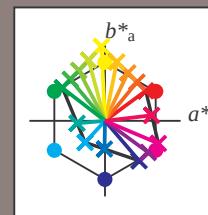




Input and output:  
Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

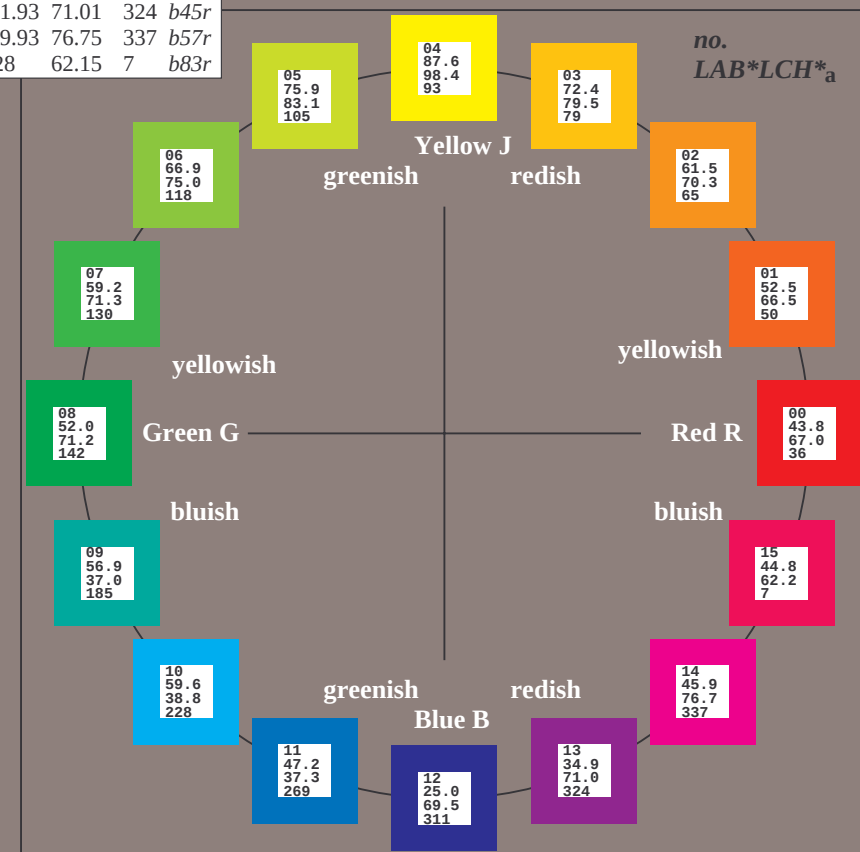
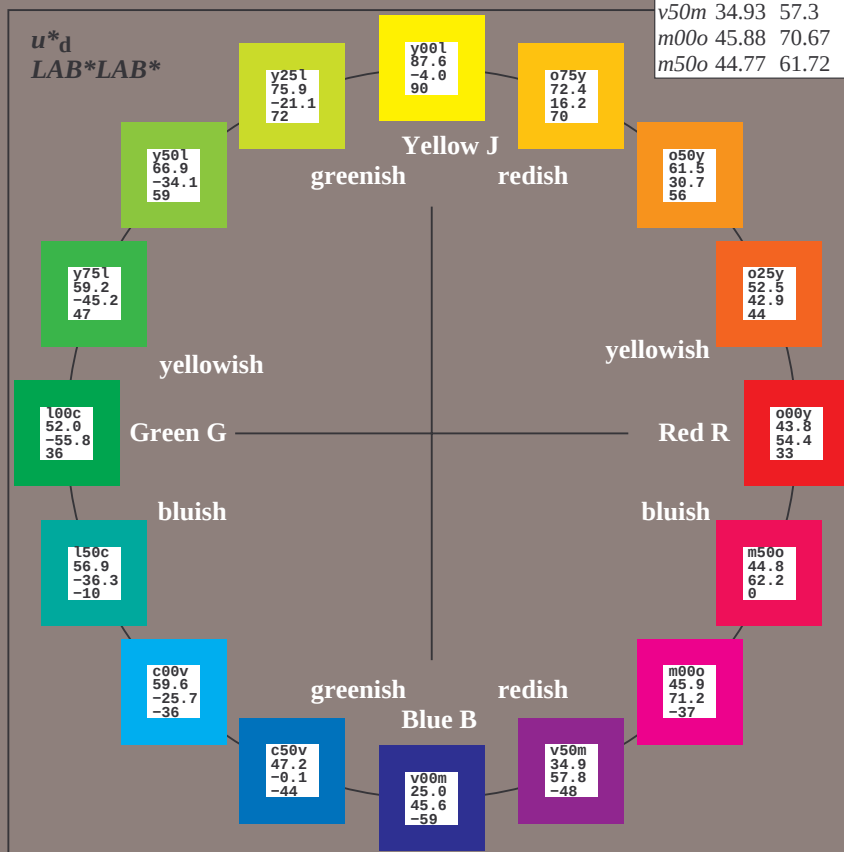
$u^*_d$  and number *no.* = 00 .. 15  
device hue text:  
 $u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*  
contrast reduction factor:  
 $c_R = 0.9$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |             |  |
|------------------------------------|-------------|---------|---------|--------------|--------------|-------------|--|
| $u^*_d$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |  |
| <i>o00y</i>                        | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |  |
| <i>o25y</i>                        | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |  |
| <i>o50y</i>                        | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |  |
| <i>o75y</i>                        | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |  |
| <i>y00l</i>                        | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |  |
| <i>y25l</i>                        | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |  |
| <i>y50l</i>                        | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |  |
| <i>y75l</i>                        | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |  |
| <i>l00c</i>                        | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |  |
| <i>l50c</i>                        | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |  |
| <i>c00v</i>                        | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |  |
| <i>c50v</i>                        | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |  |
| <i>v00m</i>                        | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |  |
| <i>v50m</i>                        | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |  |
| <i>m00o</i>                        | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |  |
| <i>m50o</i>                        | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |  |



%Gamut  
 $u^*_{rel} = 88$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 39$

| FRS12_95; CIELAB data |           |        |        |            |            |
|-----------------------|-----------|--------|--------|------------|------------|
| Name                  | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |
| <i>O_M</i>            | 43.8      | 54.41  | 32.95  | 63.61      | 31         |
| <i>Y_M</i>            | 87.58     | -4.04  | 90.02  | 90.11      | 93         |
| <i>L_M</i>            | 51.95     | -55.83 | 36.46  | 66.68      | 147        |
| <i>C_M</i>            | 59.62     | -25.67 | -35.94 | 44.17      | 234        |
| <i>V_M</i>            | 25.01     | 45.64  | -58.96 | 74.57      | 308        |
| <i>M_M</i>            | 45.88     | 71.17  | -36.79 | 80.12      | 333        |
| <i>N_M</i>            | 20.0      | 0.43   | -5.99  | 6.01       | 274        |
| <i>W_M</i>            | 95.0      | 0.62   | -8.52  | 8.54       | 274        |
| <i>O_CIE</i>          | 39.92     | 58.74  | 27.99  | 65.07      | 25         |
| <i>Y_CIE</i>          | 81.26     | -2.89  | 71.56  | 71.62      | 92         |
| <i>L_CIE</i>          | 52.23     | -42.42 | 13.6   | 44.55      | 162        |
| <i>V_CIE</i>          | 30.57     | 1.41   | -46.47 | 46.49      | 272        |



### Input and output:

Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number *no.* = 00 .. 15

device hue text:

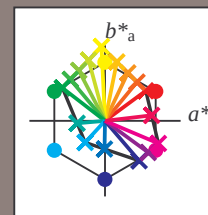
$u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*

contrast reduction factor:

$c_R = 0.9$

### FRS12\_95a; adapted (a) CIELAB data

| $u^*_d$     | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
|-------------|-------------|---------|---------|--------------|--------------|-------------|
| <i>o00y</i> | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i> | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i> | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i> | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i> | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i> | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i> | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i> | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i> | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i> | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i> | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i> | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i> | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i> | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i> | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i> | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut

$u^*_{rel} = 88$

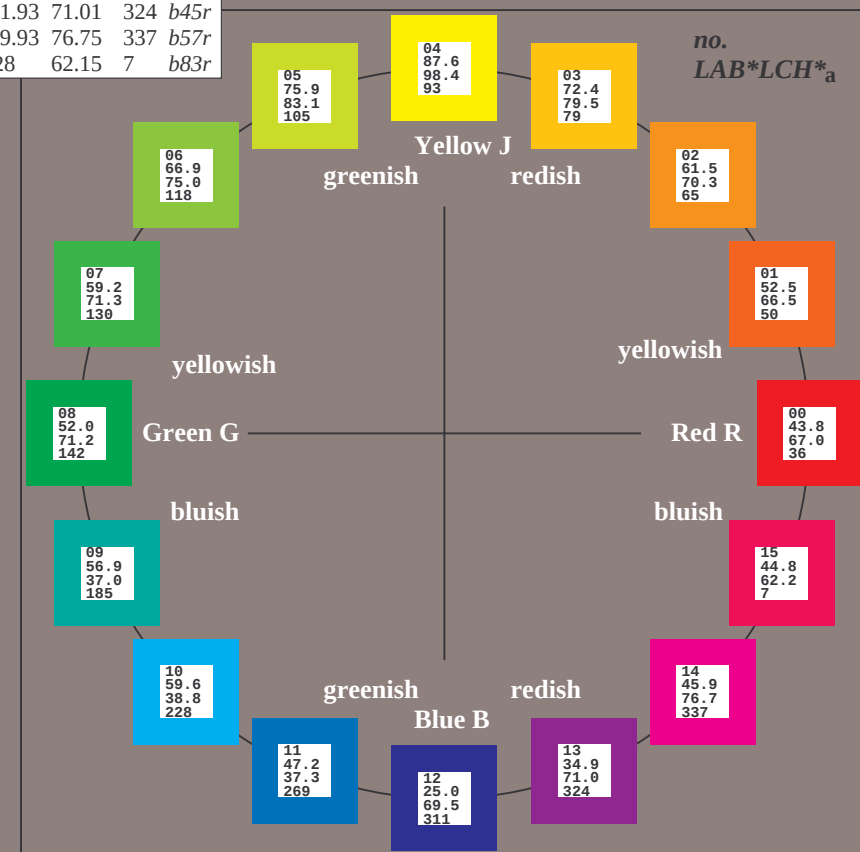
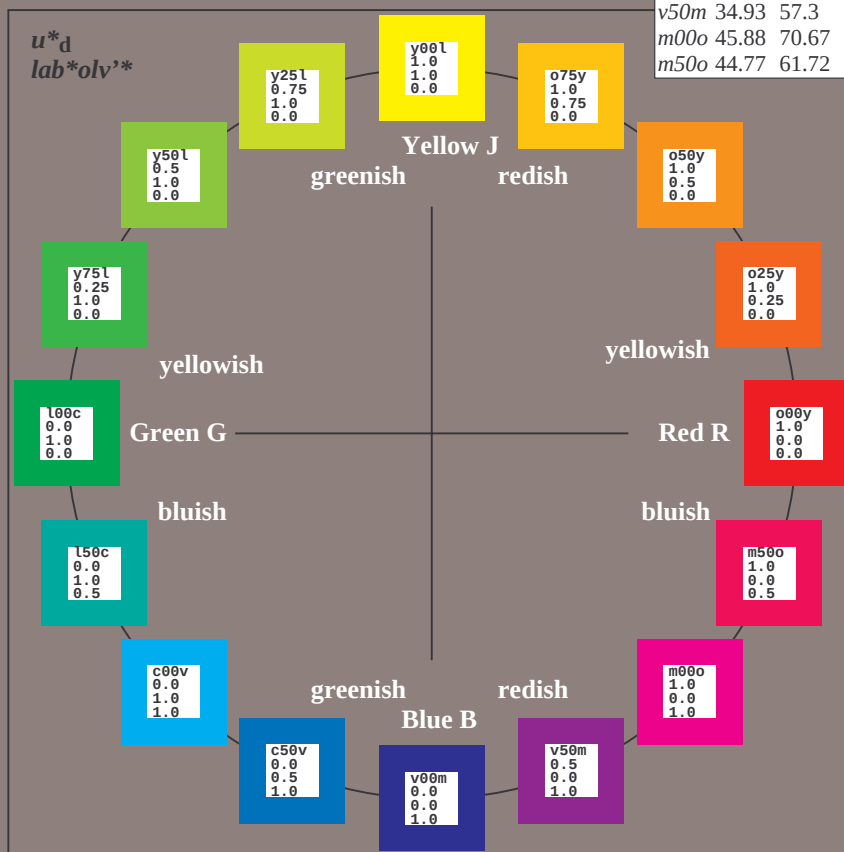
%Regularity

$g^*_{H,rel} = 31$

$g^*_{C,rel} = 39$

### FRS12\_95a; CIELAB data

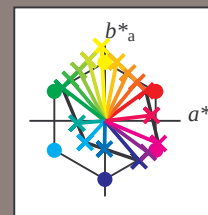
| Name         | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |
|--------------|-----------|--------|--------|------------|------------|
| <i>O_M</i>   | 43.8      | 54.41  | 32.95  | 63.61      | 31         |
| <i>Y_M</i>   | 87.58     | -4.04  | 90.02  | 90.11      | 93         |
| <i>L_M</i>   | 51.95     | -55.83 | 36.46  | 66.68      | 147        |
| <i>C_M</i>   | 59.62     | -25.67 | -35.94 | 44.17      | 234        |
| <i>V_M</i>   | 25.01     | 45.64  | -58.96 | 74.57      | 308        |
| <i>M_M</i>   | 45.88     | 71.17  | -36.79 | 80.12      | 333        |
| <i>N_M</i>   | 20.0      | 0.43   | -5.99  | 6.01       | 274        |
| <i>W_M</i>   | 95.0      | 0.62   | -8.52  | 8.54       | 274        |
| <i>O_CIE</i> | 39.92     | 58.74  | 27.99  | 65.07      | 25         |
| <i>Y_CIE</i> | 81.26     | -2.89  | 71.56  | 71.62      | 92         |
| <i>L_CIE</i> | 52.23     | -42.42 | 13.6   | 44.55      | 162        |
| <i>V_CIE</i> | 30.57     | 1.41   | -46.47 | 46.49      | 272        |



Input and output:  
Colorimetric Printer Reflective System FRS12\_95a  
data for any colour:

$u^*_d$  and number *no.* = 00 .. 15  
device hue text:  
 $u^*_d$  = 16 hues *o00y*, *o25y*, ..., *m50o*  
contrast reduction factor:  
 $c_R = 0.9$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |             |
|------------------------------------|-------------|---------|---------|--------------|--------------|-------------|
| $u^*_d$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_e$     |
| <i>o00y</i>                        | 43.8        | 53.91   | 39.75   | 66.98        | 36           | <i>r16j</i> |
| <i>o25y</i>                        | 52.46       | 42.34   | 51.32   | 66.53        | 50           | <i>r37j</i> |
| <i>o50y</i>                        | 61.53       | 30.2    | 63.46   | 70.28        | 65           | <i>r58j</i> |
| <i>o75y</i>                        | 72.39       | 15.68   | 77.97   | 79.53        | 79           | <i>r79j</i> |
| <i>y00l</i>                        | 87.58       | -4.65   | 98.29   | 98.4         | 93           | <i>j01g</i> |
| <i>y25l</i>                        | 75.85       | -21.67  | 80.26   | 83.13        | 105          | <i>j18g</i> |
| <i>y50l</i>                        | 66.91       | -34.64  | 66.52   | 75.0         | 118          | <i>j36g</i> |
| <i>y75l</i>                        | 59.24       | -45.77  | 54.72   | 71.34        | 130          | <i>j53g</i> |
| <i>l00c</i>                        | 51.95       | -56.34  | 43.53   | 71.2         | 142          | <i>j71g</i> |
| <i>l50c</i>                        | 56.92       | -36.83  | -3.17   | 36.97        | 185          | <i>g21b</i> |
| <i>c00v</i>                        | 59.62       | -26.2   | -28.62  | 38.8         | 228          | <i>g60b</i> |
| <i>c50v</i>                        | 47.22       | -0.62   | -37.28  | 37.29        | 269          | <i>g97b</i> |
| <i>v00m</i>                        | 25.01       | 45.2    | -52.8   | 69.51        | 311          | <i>b34r</i> |
| <i>v50m</i>                        | 34.93       | 57.3    | -41.93  | 71.01        | 324          | <i>b45r</i> |
| <i>m00o</i>                        | 45.88       | 70.67   | -29.93  | 76.75        | 337          | <i>b57r</i> |
| <i>m50o</i>                        | 44.77       | 61.72   | 7.28    | 62.15        | 7            | <i>b83r</i> |



%Gamut  
 $u^*_{rel} = 88$   
%Regularity  
 $g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 39$

| FRS12_95a; CIELAB data |           |        |        |            |            |
|------------------------|-----------|--------|--------|------------|------------|
| Name                   | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |
| $O_M$                  | 43.8      | 54.41  | 32.95  | 63.61      | 31         |
| $Y_M$                  | 87.58     | -4.04  | 90.02  | 90.11      | 93         |
| $L_M$                  | 51.95     | -55.83 | 36.46  | 66.68      | 147        |
| $C_M$                  | 59.62     | -25.67 | -35.94 | 44.17      | 234        |
| $V_M$                  | 25.01     | 45.64  | -58.96 | 74.57      | 308        |
| $M_M$                  | 45.88     | 71.17  | -36.79 | 80.12      | 333        |
| $N_M$                  | 20.0      | 0.43   | -5.99  | 6.01       | 274        |
| $W_M$                  | 95.0      | 0.62   | -8.52  | 8.54       | 274        |
| $O_{CIE}$              | 39.92     | 58.74  | 27.99  | 65.07      | 25         |
| $Y_{CIE}$              | 81.26     | -2.89  | 71.56  | 71.62      | 92         |
| $L_{CIE}$              | 52.23     | -42.42 | 13.6   | 44.55      | 162        |
| $V_{CIE}$              | 30.57     | 1.41   | -46.47 | 46.49      | 272        |

