

Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:

$lab^*tch^*$  and  $lab^*icu^*$

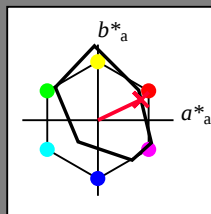
Hue texts:

$u^*_e = r00j$   $u^*_d = m81o$

contrast reduction factor:

$c_R = 0.9$

triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

| $u^*_e$         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------------|-------------|---------|---------|--------------|--------------|
| 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            |
| R <sub>Ma</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>Ma</sub> | 81.26       | -2.89   | 71.56   | 71.62        | 92           |
| G <sub>Ma</sub> | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
| B <sub>Ma</sub> | 30.57       | 1.41    | -46.47  | 46.49        | 272          |

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 88$

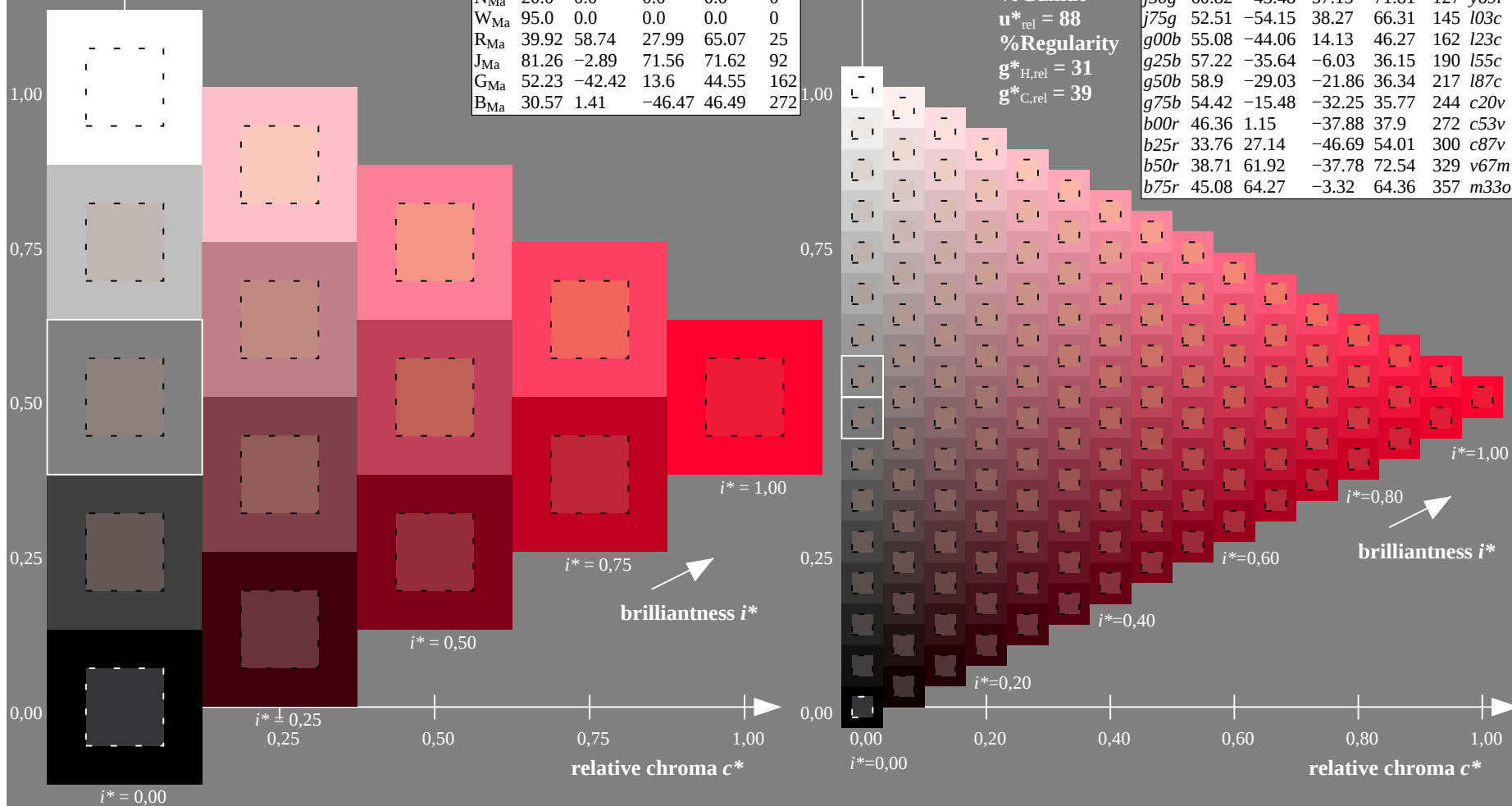
%Regularity

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

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

FRS12\_95a; adapted (a) CIELAB data

| $u^*_e$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
|---------|-------------|---------|---------|--------------|--------------|---------|
| r00j    | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j    | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j    | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j    | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g    | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g    | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g    | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g    | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b    | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b    | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b    | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b    | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r    | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r    | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r    | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r    | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



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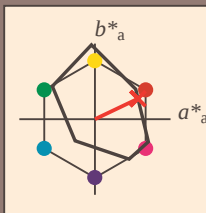
Hue texts:

$u_e^* = r00j$   $u_d^* = m81o$

contrast reduction factor:

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triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

| $u_e^*$         | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ |
|-----------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub> | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
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| 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            |
| R <sub>Ma</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>Ma</sub> | 81.26       | -2.89   | 71.56   | 71.62        | 92           |
| G <sub>Ma</sub> | 52.23       | -42.42  | 13.6    | 44.55        | 162          |
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Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

%Gamut

$u_{rel}^* = 88$

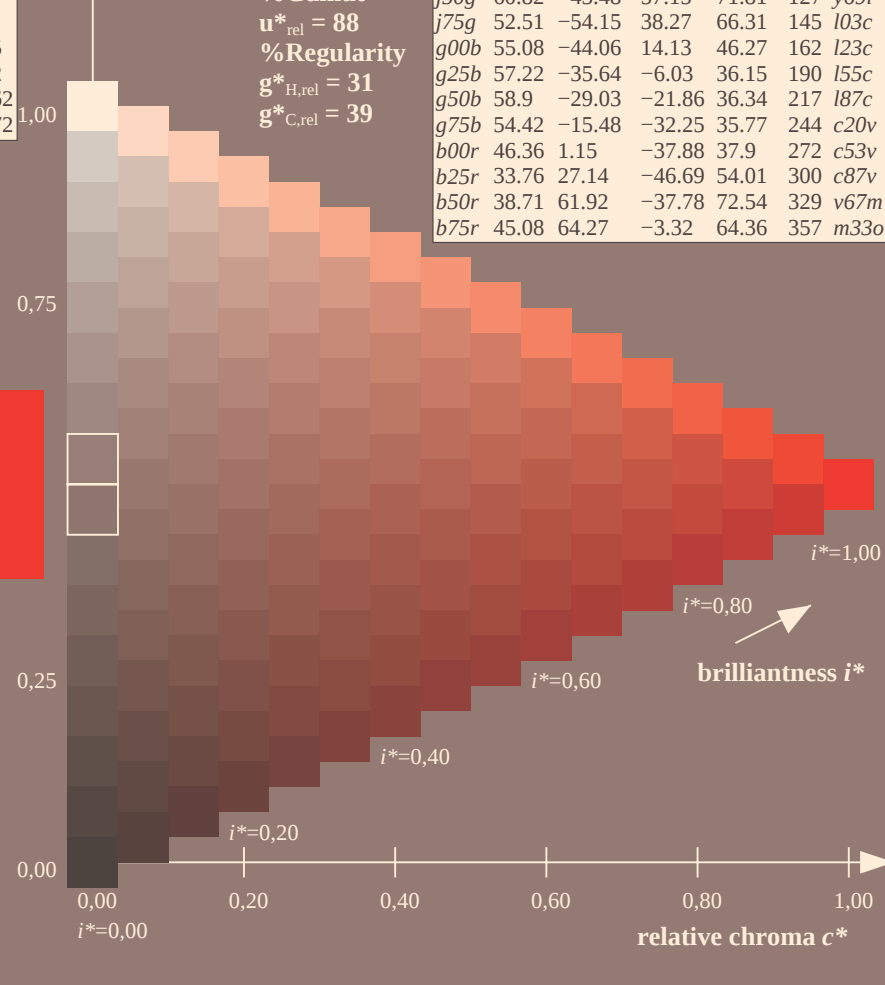
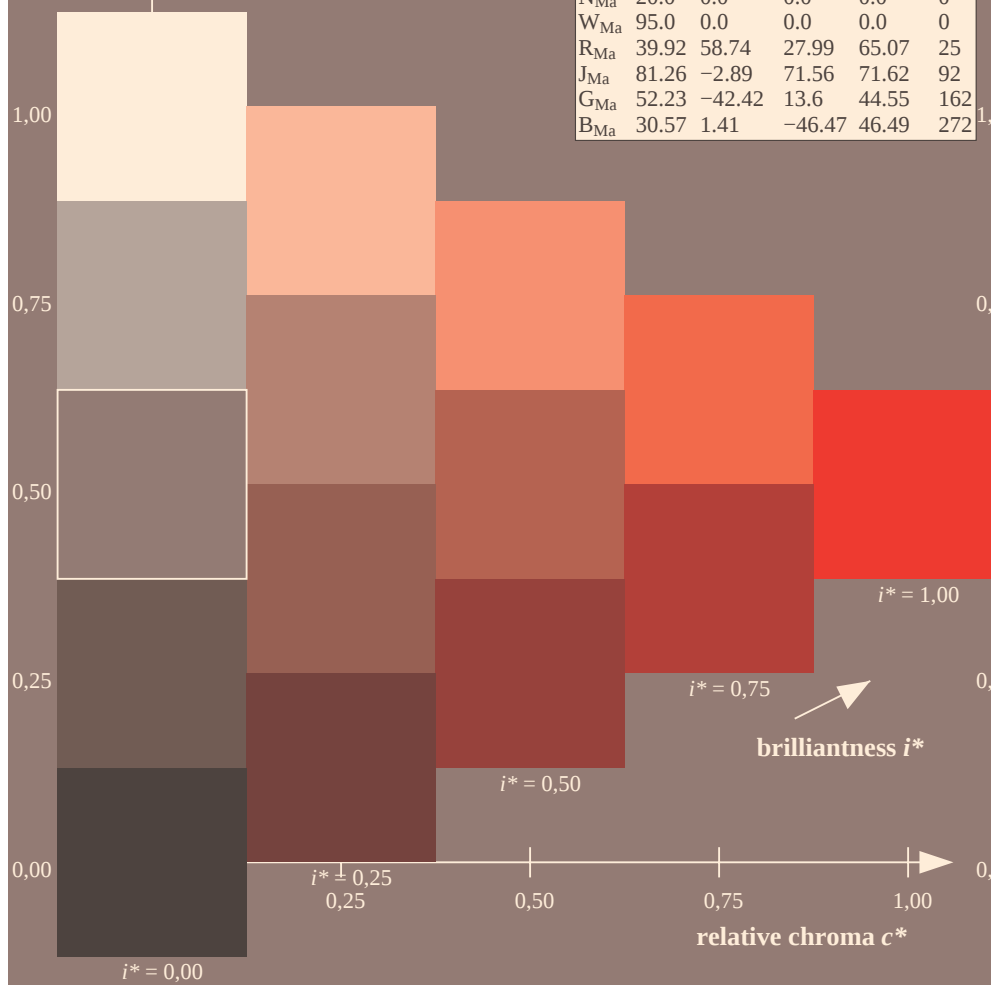
%Regularity

$g_{H,rel}^* = 31$

$g_{C,rel}^* = 39$

FRS12\_95a; adapted (a) CIELAB data

| $u_e^*$ | $L^*=L_a^*$ | $a_a^*$ | $b_a^*$ | $C_{ab,a}^*$ | $h_{ab,a}^*$ | $u_d^*$ |
|---------|-------------|---------|---------|--------------|--------------|---------|
| r00j    | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j    | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j    | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j    | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g    | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g    | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g    | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g    | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b    | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b    | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b    | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b    | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r    | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r    | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r    | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
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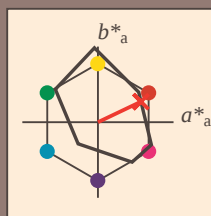
Hue texts:

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contrast reduction factor:

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triangle lightness  $t^*$



| FRS12_95a; adapted (a) CIELAB data |         |             |         |         |              |              |
|------------------------------------|---------|-------------|---------|---------|--------------|--------------|
|                                    | $u^*_e$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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            |              |
| R <sub>Ma</sub>                    | 39.92   | 58.74       | 27.99   | 65.07   | 25           |              |
| J <sub>Ma</sub>                    | 81.26   | -2.89       | 71.56   | 71.62   | 92           |              |
| G <sub>Ma</sub>                    | 52.23   | -42.42      | 13.6    | 44.55   | 162          |              |
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$LAB^*LAB^*_{Ma}$ : 44 57 27

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$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

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triangle lightness  $t^*$

%Gamut

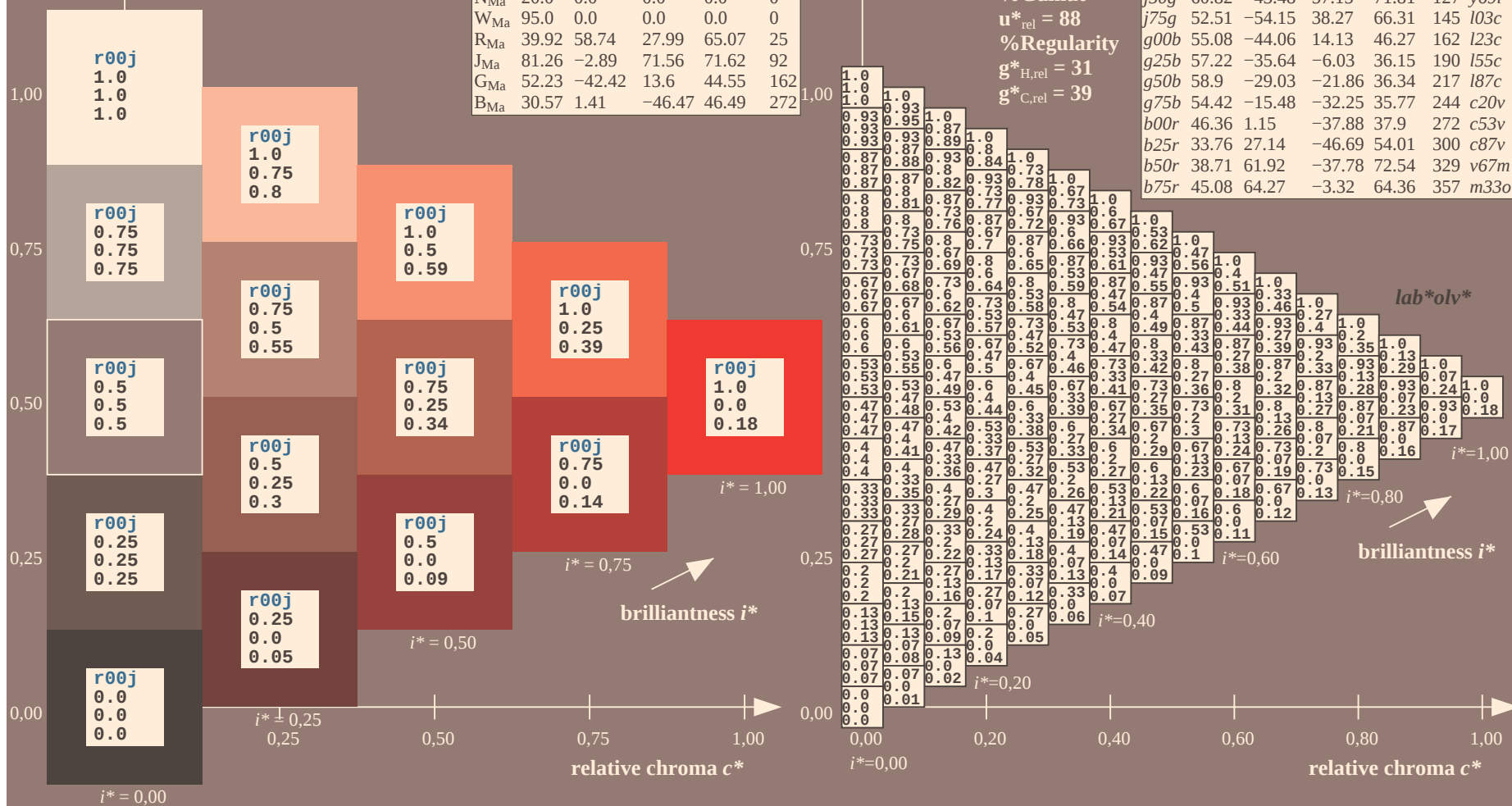
$u^*_{rel} = 88$

%Regularity

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

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| FRS12_95a; adapted (a) CIELAB data |         |             |         |         |              |              |
|------------------------------------|---------|-------------|---------|---------|--------------|--------------|
|                                    | $u^*_e$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| r00j                               | 44.18   | 56.95       | 27.14   | 63.08   | 25           | m81o         |
| r25j                               | 47.38   | 49.13       | 44.53   | 66.31   | 42           | o10y         |
| r50j                               | 57.76   | 35.24       | 58.41   | 68.22   | 59           | o40y         |
| r75j                               | 69.81   | 19.13       | 74.52   | 76.94   | 76           | o69y         |
| j00g                               | 87.06   | -3.94       | 97.58   | 97.66   | 92           | o98y         |
| j25g                               | 72.25   | -26.89      | 74.73   | 79.42   | 110          | y34l         |
| j50g                               | 60.82   | -43.48      | 57.15   | 71.81   | 127          | y69l         |
| j75g                               | 52.51   | -54.15      | 38.27   | 66.31   | 145          | l03c         |
| g00b                               | 55.08   | -44.06      | 14.13   | 46.27   | 162          | l23c         |
| g25b                               | 57.22   | -35.64      | -6.03   | 36.15   | 190          | l55c         |
| g50b                               | 58.9    | -29.03      | -21.86  | 36.34   | 217          | l87c         |
| g75b                               | 54.42   | -15.48      | -32.25  | 35.77   | 244          | c20v         |
| b00r                               | 46.36   | 1.15        | -37.88  | 37.9    | 272          | c53v         |
| b25r                               | 33.76   | 27.14       | -46.69  | 54.01   | 300          | c87v         |
| b50r                               | 38.71   | 61.92       | -37.78  | 72.54   | 329          | v67m         |
| b75r                               | 45.08   | 64.27       | -3.32   | 64.36   | 357          | m33o         |



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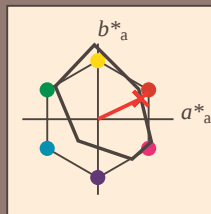
Hue texts:

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contrast reduction factor:

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triangle lightness  $t^*$



FRS12\_95a; adapted (a) CIELAB data

| $u^*_e$         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub> | 43.8        | 53.91   | 39.75   | 66.98        | 36           |
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$LAB^*LAB^*_{Ma}$ : 44 57 27

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triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 88$

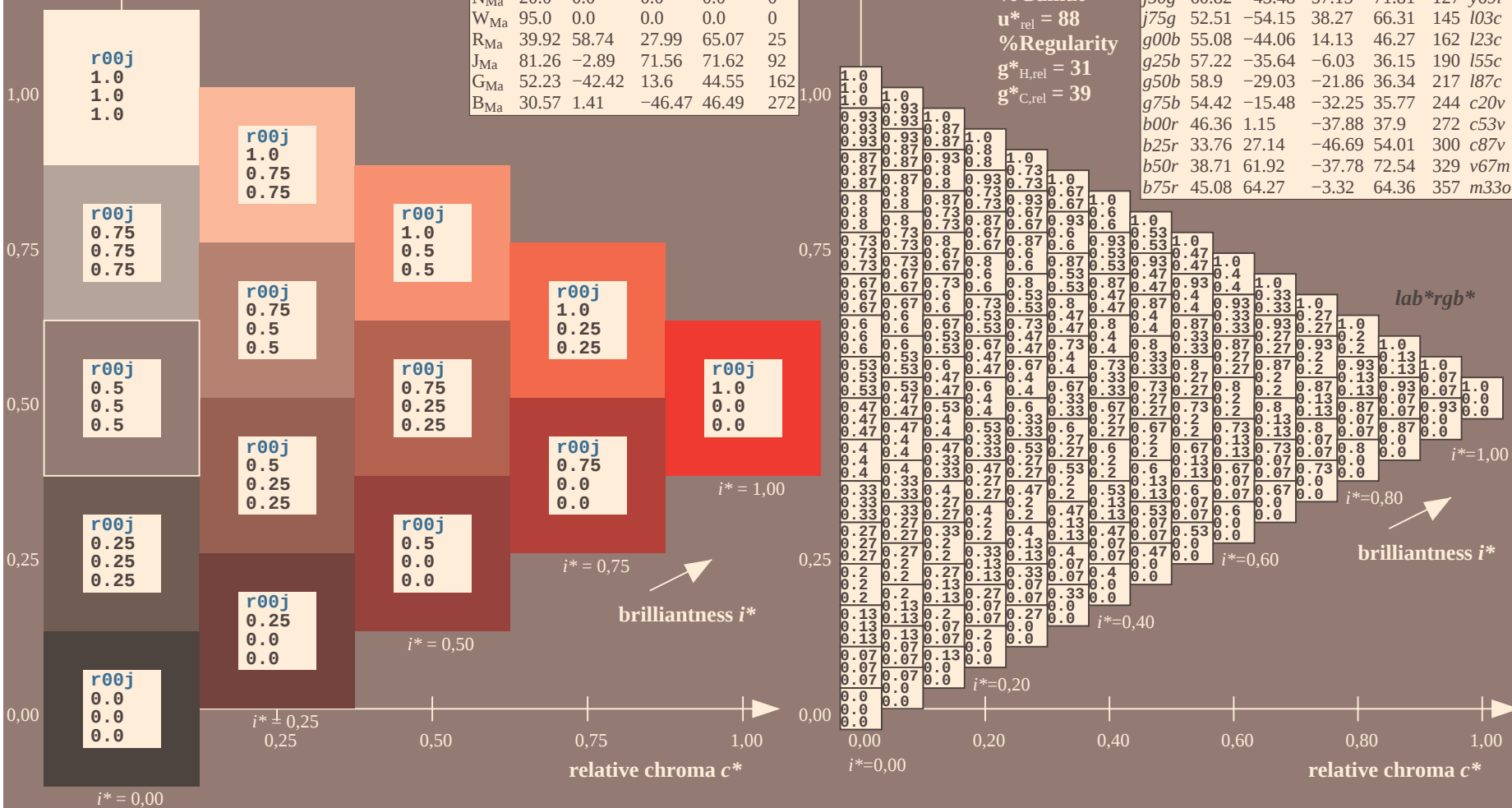
%Regularity

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FRS12\_95a; adapted (a) CIELAB data

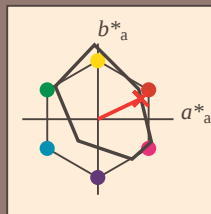
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| r00j    | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j    | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j    | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
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| j00g    | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g    | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
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| W <sub>Ma</sub>                    | 95.0        | 0.0     | 0.0     | 0.0          | 0            |         |
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triangle lightness  $t^*$

%Gamut

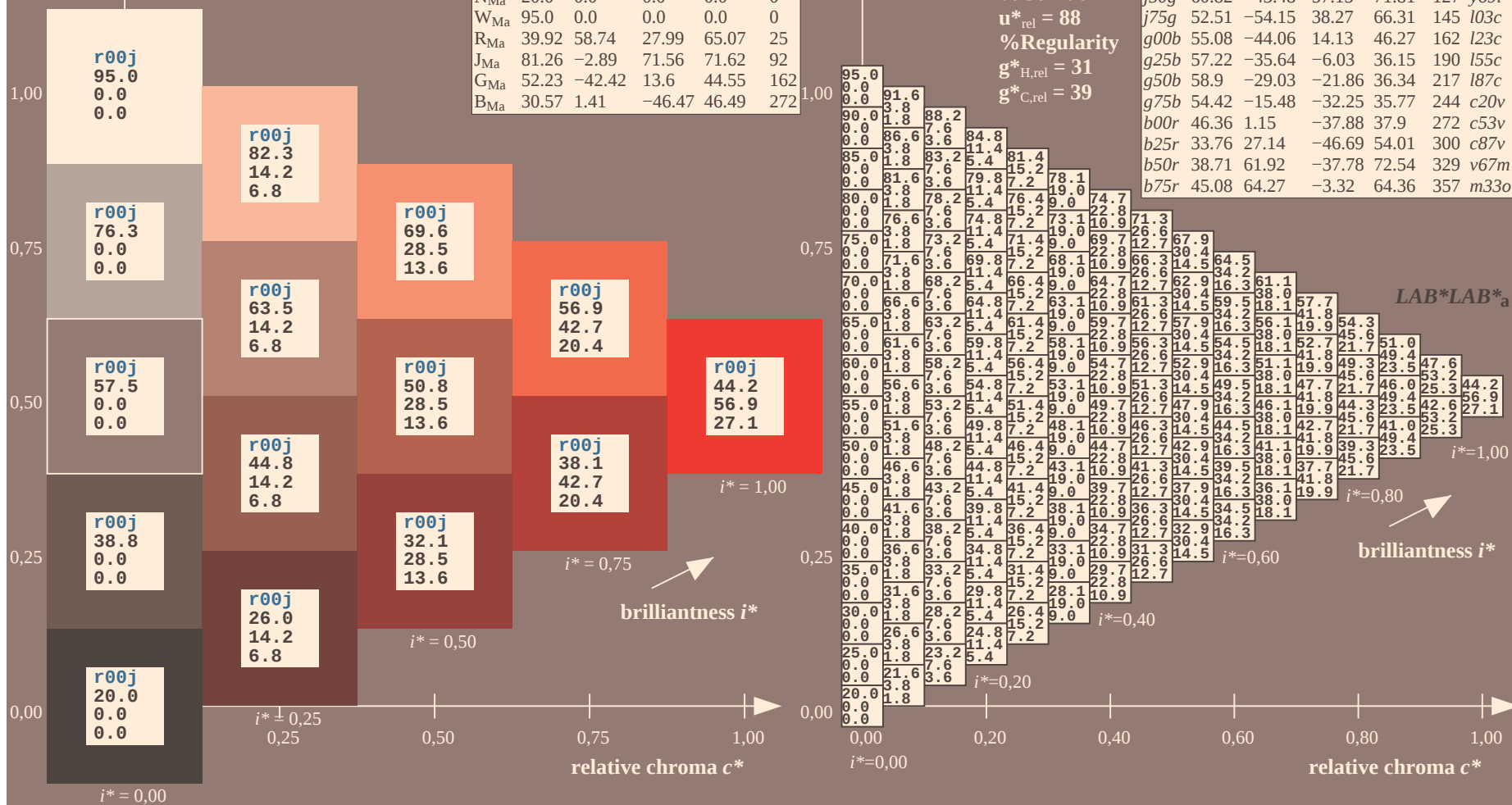
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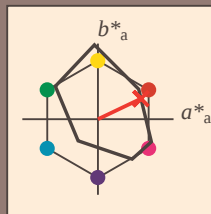
$g^*_{C,rel} = 39$

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| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| 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            |         |
| R <sub>Ma</sub>                    | 39.92       | 58.74   | 27.99   | 65.07        | 25           |         |
| J <sub>Ma</sub>                    | 81.26       | -2.89   | 71.56   | 71.62        | 92           |         |
| G <sub>Ma</sub>                    | 52.23       | -42.42  | 13.6    | 44.55        | 162          |         |
| B <sub>Ma</sub>                    | 30.57       | 1.41    | -46.47  | 46.49        | 272          |         |

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

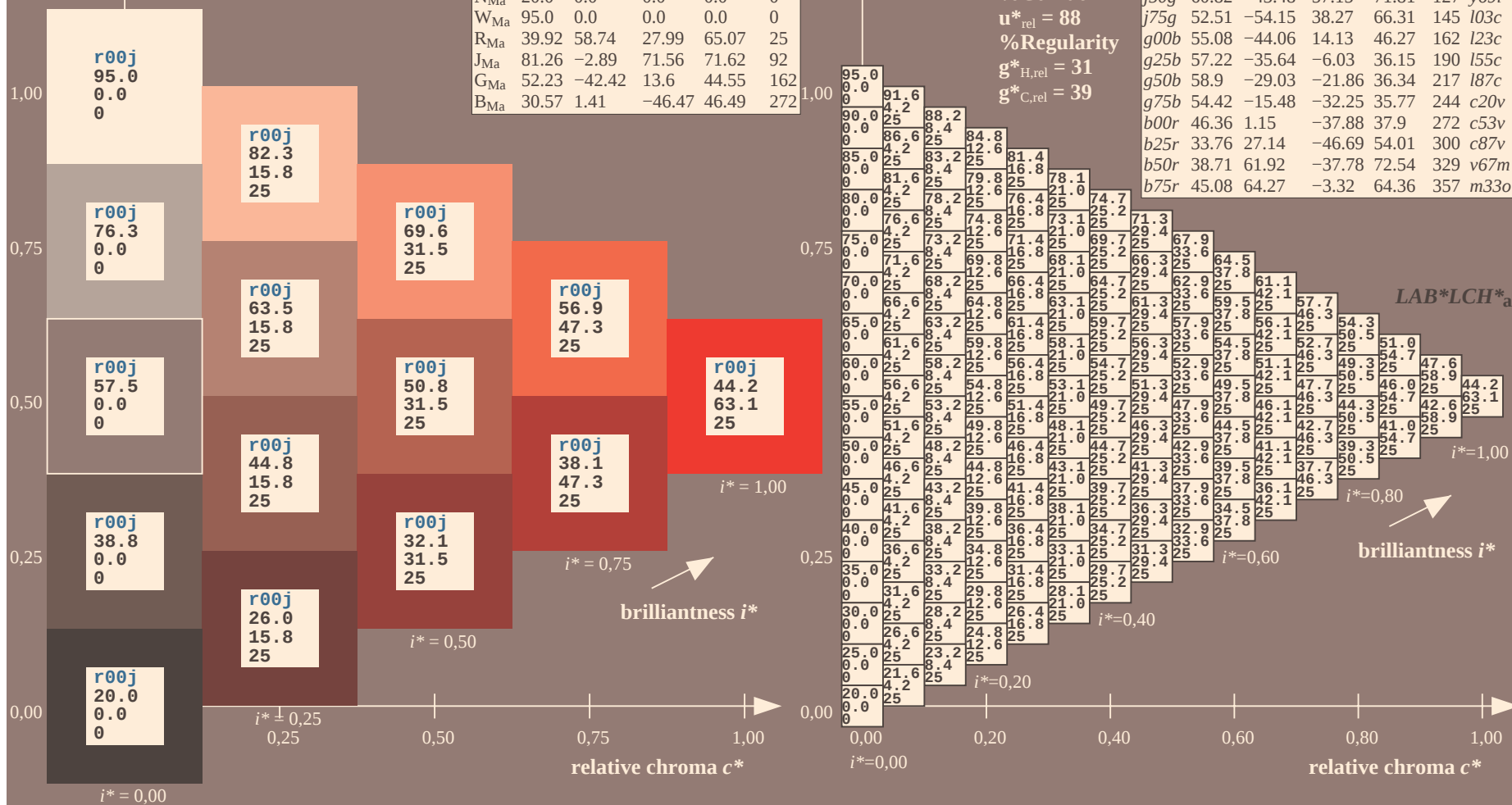
triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 88$   
 $\%Regularity$

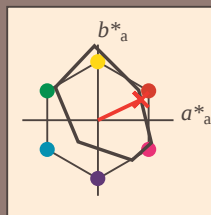
$g^*_{H,rel} = 31$   
 $g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| 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            |         |
| R <sub>Ma</sub>                    | 39.92       | 58.74   | 27.99   | 65.07        | 25           |         |
| J <sub>Ma</sub>                    | 81.26       | -2.89   | 71.56   | 71.62        | 92           |         |
| G <sub>Ma</sub>                    | 52.23       | -42.42  | 13.6    | 44.55        | 162          |         |
| B <sub>Ma</sub>                    | 30.57       | 1.41    | -46.47  | 46.49        | 272          |         |

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

%Gamut

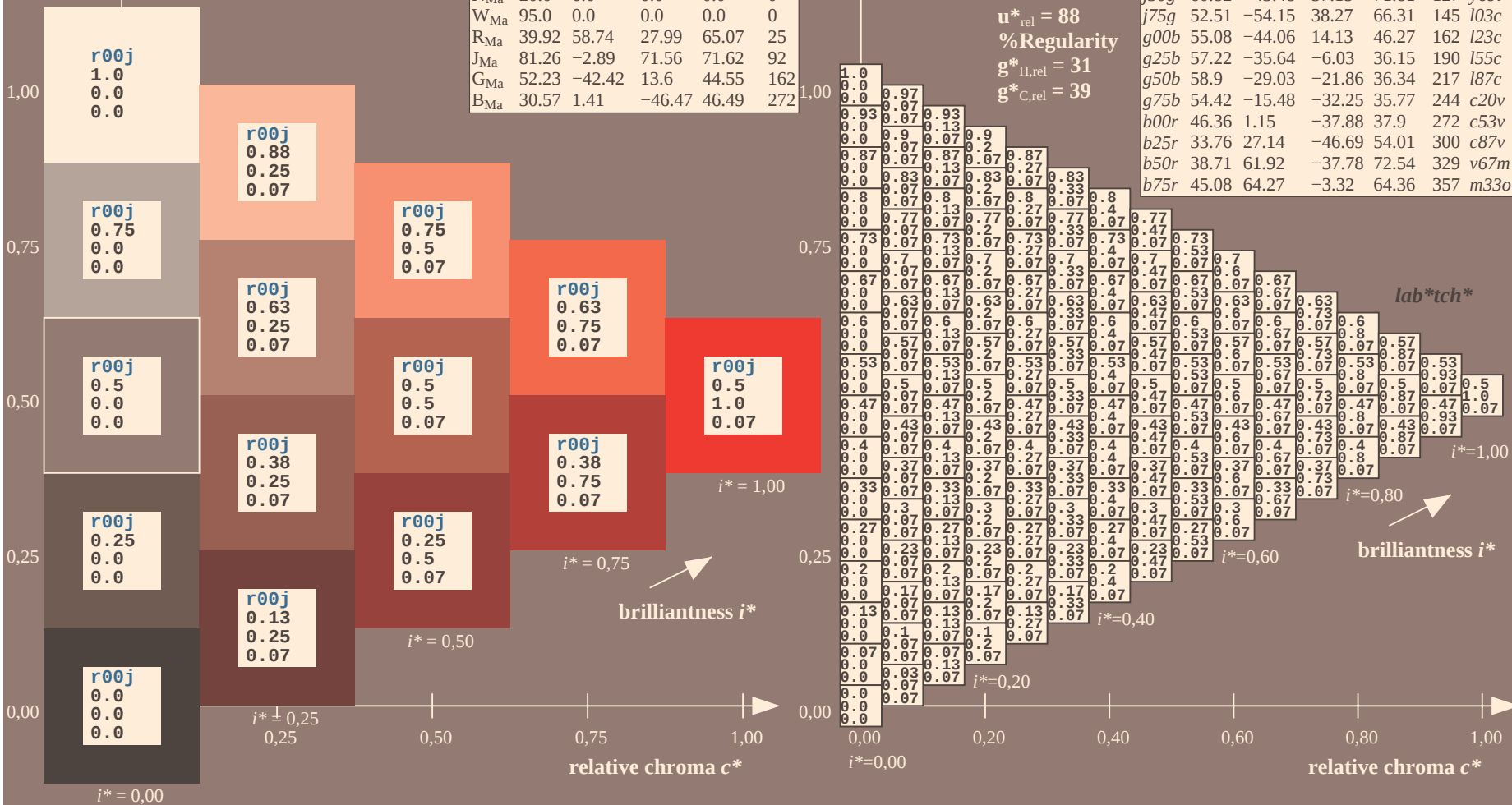
$u^*_{rel} = 88$

%Regularity

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

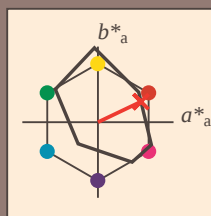
$g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95a; adapted (a) CIELAB data |         |             |         |         |              |              |
|------------------------------------|---------|-------------|---------|---------|--------------|--------------|
|                                    | $u^*_e$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| 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            |              |
| R <sub>Ma</sub>                    | 39.92   | 58.74       | 27.99   | 65.07   | 25           |              |
| J <sub>Ma</sub>                    | 81.26   | -2.89       | 71.56   | 71.62   | 92           |              |
| G <sub>Ma</sub>                    | 52.23   | -42.42      | 13.6    | 44.55   | 162          |              |
| B <sub>Ma</sub>                    | 30.57   | 1.41        | -46.47  | 46.49   | 272          |              |

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

%Gamut

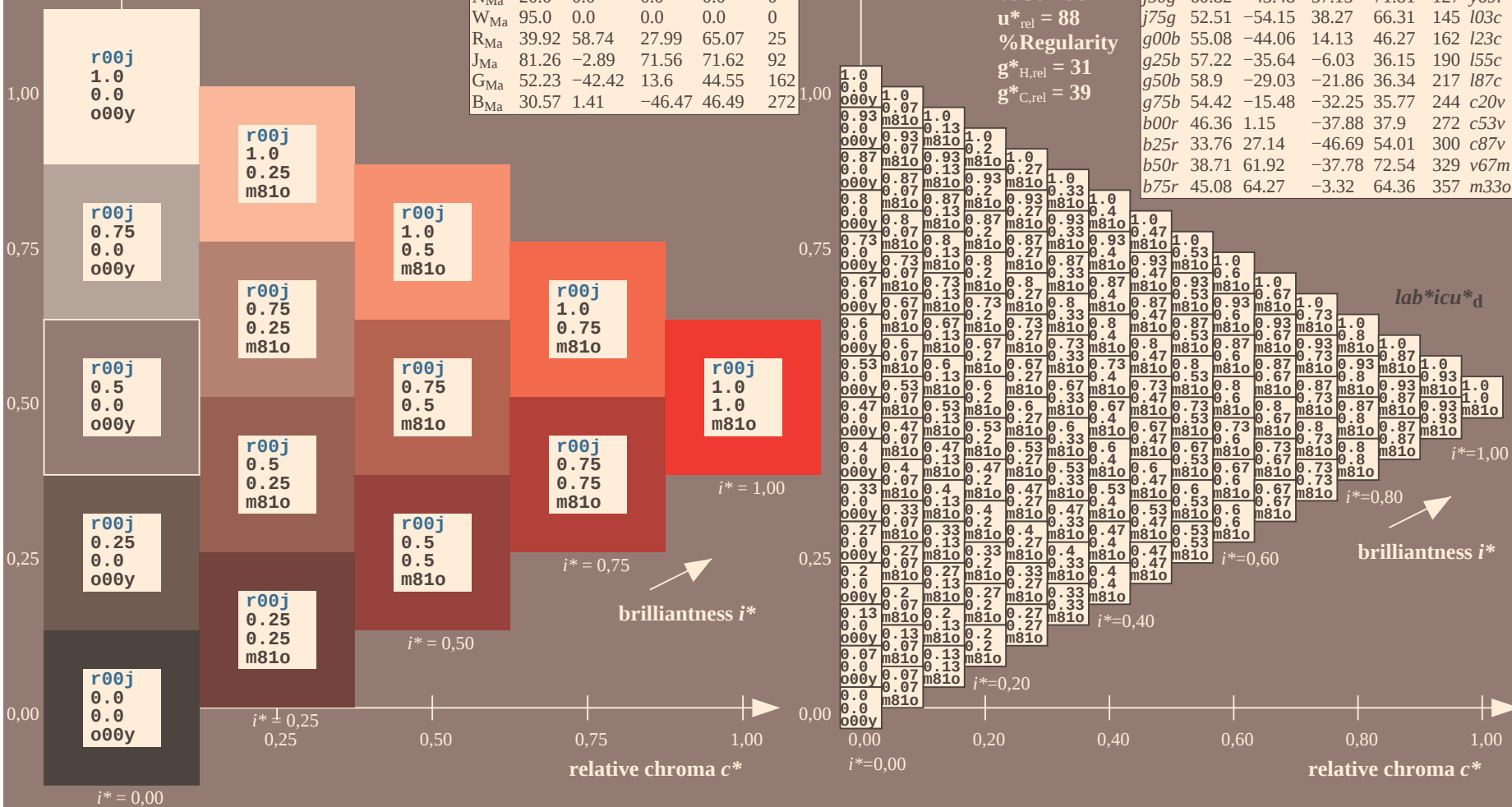
$u^*_{rel} = 88$

%Regularity

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

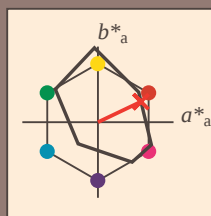
$g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |         |             |         |         |              |              |
|------------------------------------|---------|-------------|---------|---------|--------------|--------------|
|                                    | $u^*_e$ | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| r00j                               | 44.18   | 56.95       | 27.14   | 63.08   | 25           | m81o         |
| r25j                               | 47.38   | 49.13       | 44.53   | 66.31   | 42           | o10y         |
| r50j                               | 57.76   | 35.24       | 58.41   | 68.22   | 59           | o40y         |
| r75j                               | 69.81   | 19.13       | 74.52   | 76.94   | 76           | o69y         |
| j00g                               | 87.06   | -3.94       | 97.58   | 97.66   | 92           | o98y         |
| j25g                               | 72.25   | -26.89      | 74.73   | 79.42   | 110          | y34l         |
| j50g                               | 60.82   | -43.48      | 57.15   | 71.81   | 127          | y69l         |
| j75g                               | 52.51   | -54.15      | 38.27   | 66.31   | 145          | l03c         |
| g00b                               | 55.08   | -44.06      | 14.13   | 46.27   | 162          | l23c         |
| g25b                               | 57.22   | -35.64      | -6.03   | 36.15   | 190          | l55c         |
| g50b                               | 58.9    | -29.03      | -21.86  | 36.34   | 217          | l87c         |
| g75b                               | 54.42   | -15.48      | -32.25  | 35.77   | 244          | c20v         |
| b00r                               | 46.36   | 1.15        | -37.88  | 37.9    | 272          | c53v         |
| b25r                               | 33.76   | 27.14       | -46.69  | 54.01   | 300          | c87v         |
| b50r                               | 38.71   | 61.92       | -37.78  | 72.54   | 329          | v67m         |
| b75r                               | 45.08   | 64.27       | -3.32   | 64.36   | 357          | m33o         |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95; CIELAB data |           |        |        |            |            |  |
|-----------------------|-----------|--------|--------|------------|------------|--|
| $u^*_e$               | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |  |
| O <sub>M</sub>        | 43.8      | 54.41  | 32.95  | 63.61      | 31         |  |
| Y <sub>M</sub>        | 87.58     | -4.04  | 90.02  | 90.11      | 93         |  |
| L <sub>M</sub>        | 51.95     | -55.83 | 36.46  | 66.68      | 147        |  |
| C <sub>M</sub>        | 59.62     | -25.67 | -35.94 | 44.17      | 234        |  |
| V <sub>M</sub>        | 25.01     | 45.64  | -58.96 | 74.57      | 308        |  |
| M <sub>M</sub>        | 45.88     | 71.17  | -36.79 | 80.12      | 333        |  |
| N <sub>M</sub>        | 20.0      | 0.43   | -5.99  | 6.01       | 274        |  |
| W <sub>M</sub>        | 95.0      | 0.62   | -8.52  | 8.54       | 274        |  |
| R <sub>M</sub>        | 39.92     | 58.74  | 27.99  | 65.07      | 25         |  |
| J <sub>M</sub>        | 81.26     | -2.89  | 71.56  | 71.62      | 92         |  |
| G <sub>M</sub>        | 52.23     | -42.42 | 13.6   | 44.55      | 162        |  |
| B <sub>M</sub>        | 30.57     | 1.41   | -46.47 | 46.49      | 272        |  |

Data for maximum colour (Ma):

$LAB^*LAB^*Ma: 44\ 57\ 27$

$LAB^*LCH^*Ma: 44\ 63\ 25$

$lab^*rgb^*Ma: 1.0\ 0.0\ 0.0$

$lab^*olv^*Ma: 1.0\ 0.0\ 0.18$

triangle lightness  $t^*$

%Gamut

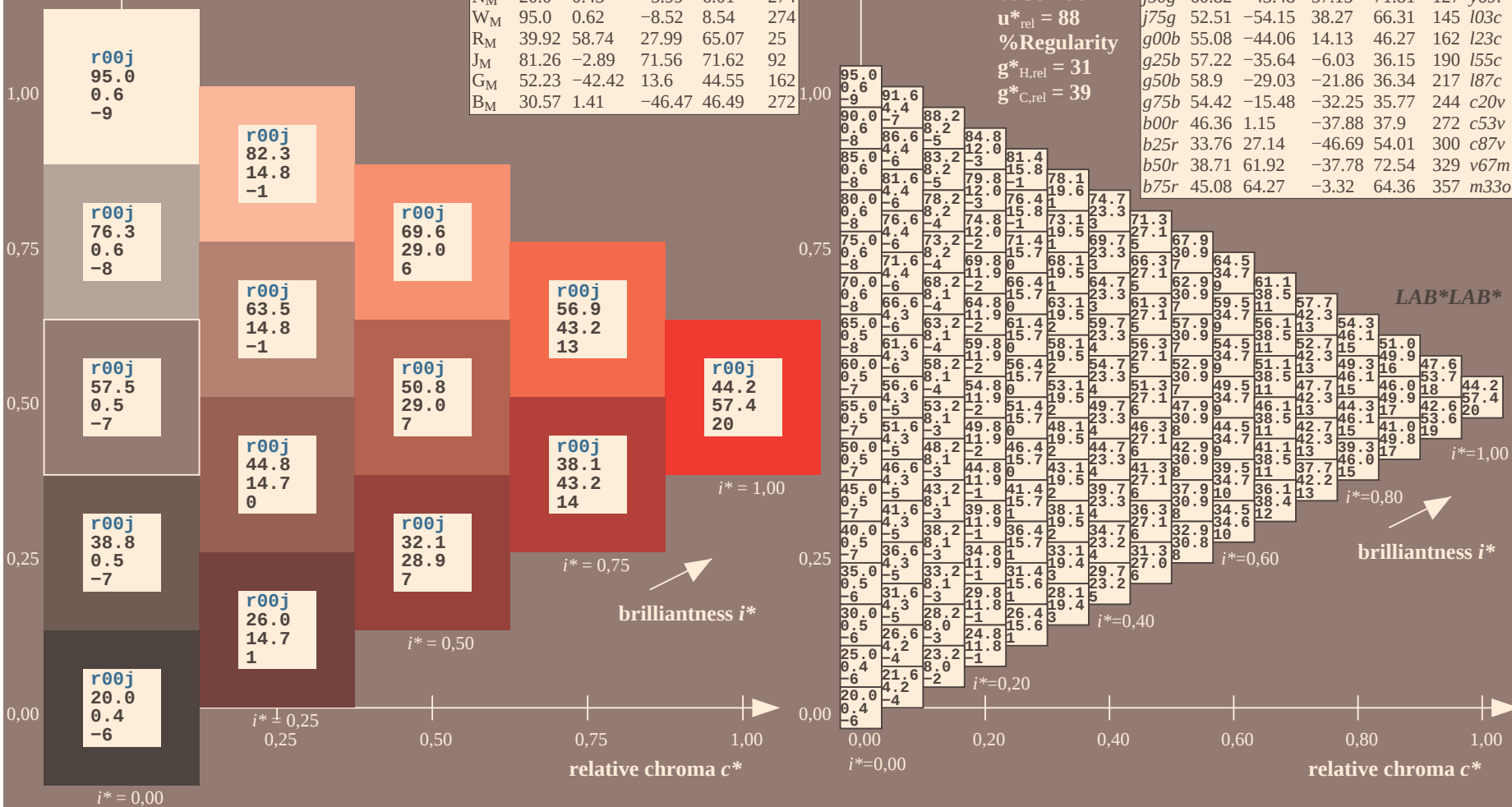
$u^*_{rel} = 88$

%Regularity

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

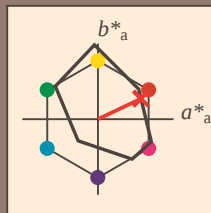
$g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab \cdot h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab \cdot tch^*$  and  $lab \cdot icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95a; CIELAB data |           |        |        |            |            |  |
|------------------------|-----------|--------|--------|------------|------------|--|
| $u^*_e$                | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |  |
| O <sub>M</sub>         | 43.8      | 54.41  | 32.95  | 63.61      | 31         |  |
| Y <sub>M</sub>         | 87.58     | -4.04  | 90.02  | 90.11      | 93         |  |
| L <sub>M</sub>         | 51.95     | -55.83 | 36.46  | 66.68      | 147        |  |
| C <sub>M</sub>         | 59.62     | -25.67 | -35.94 | 44.17      | 234        |  |
| V <sub>M</sub>         | 25.01     | 45.64  | -58.96 | 74.57      | 308        |  |
| M <sub>M</sub>         | 45.88     | 71.17  | -36.79 | 80.12      | 333        |  |
| N <sub>M</sub>         | 20.0      | 0.43   | -5.99  | 6.01       | 274        |  |
| W <sub>M</sub>         | 95.0      | 0.62   | -8.52  | 8.54       | 274        |  |
| R <sub>M</sub>         | 39.92     | 58.74  | 27.99  | 65.07      | 25         |  |
| J <sub>M</sub>         | 81.26     | -2.89  | 71.56  | 71.62      | 92         |  |
| G <sub>M</sub>         | 52.23     | -42.42 | 13.6   | 44.55      | 162        |  |
| B <sub>M</sub>         | 30.57     | 1.41   | -46.47 | 46.49      | 272        |  |

Data for maximum colour (Ma):

$LAB \cdot LAB \cdot Ma$ : 44 57 27

$LAB \cdot LCH \cdot Ma$ : 44 63 25

$lab \cdot rgb \cdot Ma$ : 1.0 0.0 0.0

$lab \cdot olv \cdot Ma$ : 1.0 0.0 0.18

triangle lightness  $t^*$

% Gamut

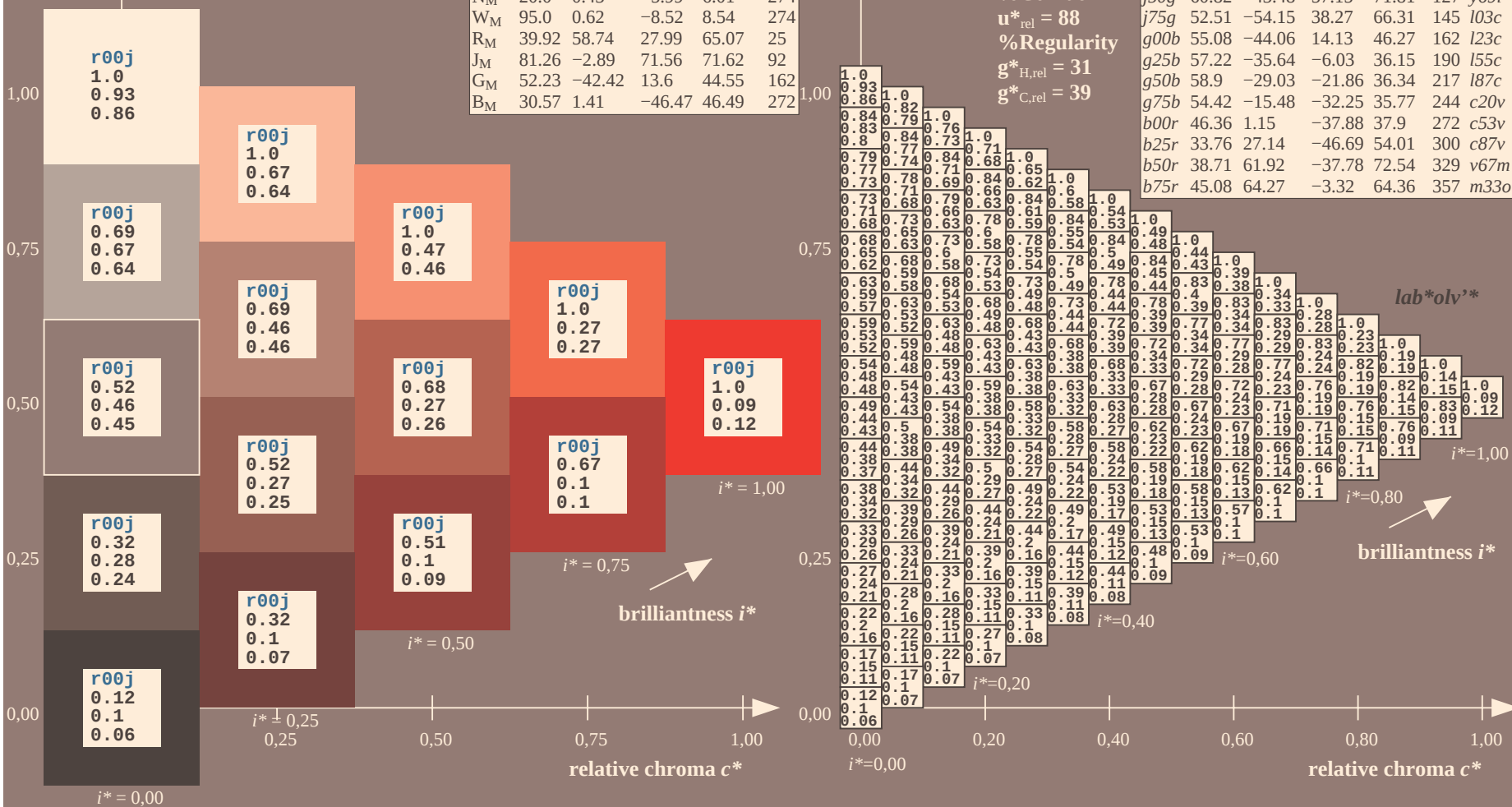
$u^*_{rel} = 88$

% Regularity

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

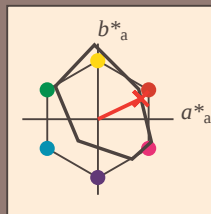
$g^*_{C,rel} = 39$

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |



Input and output: Colorimetric Printer Reflective System FRS12\_95a for relative CIELAB hue  $h^* = lab^*h^* = h_{ab}/360 = 0.071$   
data for any colour:  
 $lab^*tch^*$  and  $lab^*icu^*$

Hue texts:  
 $u^*_e = r00j$   $u^*_d = m81o$   
contrast reduction factor:  
 $c_R = 0.9$   
triangle lightness  $t^*$



| FRS12_95a; CIELAB data |           |        |        |            |            |  |
|------------------------|-----------|--------|--------|------------|------------|--|
| $u^*_e$                | $L^*=L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h^*_{ab}$ |  |
| O <sub>M</sub>         | 43.8      | 54.41  | 32.95  | 63.61      | 31         |  |
| Y <sub>M</sub>         | 87.58     | -4.04  | 90.02  | 90.11      | 93         |  |
| L <sub>M</sub>         | 51.95     | -55.83 | 36.46  | 66.68      | 147        |  |
| C <sub>M</sub>         | 59.62     | -25.67 | -35.94 | 44.17      | 234        |  |
| V <sub>M</sub>         | 25.01     | 45.64  | -58.96 | 74.57      | 308        |  |
| M <sub>M</sub>         | 45.88     | 71.17  | -36.79 | 80.12      | 333        |  |
| N <sub>M</sub>         | 20.0      | 0.43   | -5.99  | 6.01       | 274        |  |
| W <sub>M</sub>         | 95.0      | 0.62   | -8.52  | 8.54       | 274        |  |
| R <sub>M</sub>         | 39.92     | 58.74  | 27.99  | 65.07      | 25         |  |
| J <sub>M</sub>         | 81.26     | -2.89  | 71.56  | 71.62      | 92         |  |
| G <sub>M</sub>         | 52.23     | -42.42 | 13.6   | 44.55      | 162        |  |
| B <sub>M</sub>         | 30.57     | 1.41   | -46.47 | 46.49      | 272        |  |

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$ : 44 57 27

$LAB^*LCH^*_{Ma}$ : 44 63 25

$lab^*rgb^*_{Ma}$ : 1.0 0.0 0.0

$lab^*olv^*_{Ma}$ : 1.0 0.0 0.18

triangle lightness  $t^*$

%Gamut

$u^*_{rel} = 88$

%Regularity

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

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

| FRS12_95a; adapted (a) CIELAB data |             |         |         |              |              |         |
|------------------------------------|-------------|---------|---------|--------------|--------------|---------|
| $u^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ | $u^*_d$ |
| r00j                               | 44.18       | 56.95   | 27.14   | 63.08        | 25           | m81o    |
| r25j                               | 47.38       | 49.13   | 44.53   | 66.31        | 42           | o10y    |
| r50j                               | 57.76       | 35.24   | 58.41   | 68.22        | 59           | o40y    |
| r75j                               | 69.81       | 19.13   | 74.52   | 76.94        | 76           | o69y    |
| j00g                               | 87.06       | -3.94   | 97.58   | 97.66        | 92           | o98y    |
| j25g                               | 72.25       | -26.89  | 74.73   | 79.42        | 110          | y34l    |
| j50g                               | 60.82       | -43.48  | 57.15   | 71.81        | 127          | y69l    |
| j75g                               | 52.51       | -54.15  | 38.27   | 66.31        | 145          | l03c    |
| g00b                               | 55.08       | -44.06  | 14.13   | 46.27        | 162          | l23c    |
| g25b                               | 57.22       | -35.64  | -6.03   | 36.15        | 190          | l55c    |
| g50b                               | 58.9        | -29.03  | -21.86  | 36.34        | 217          | l87c    |
| g75b                               | 54.42       | -15.48  | -32.25  | 35.77        | 244          | c20v    |
| b00r                               | 46.36       | 1.15    | -37.88  | 37.9         | 272          | c53v    |
| b25r                               | 33.76       | 27.14   | -46.69  | 54.01        | 300          | c87v    |
| b50r                               | 38.71       | 61.92   | -37.78  | 72.54        | 329          | v67m    |
| b75r                               | 45.08       | 64.27   | -3.32   | 64.36        | 357          | m33o    |

