**48 step circle with interpretation *rgb* −> *rgb**$_d$ device hue steps of 1080 standard colours**

| | *rgb* −> *rgb**$_d$ | | | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | | | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | | | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | | | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | | | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 404 | 561 | 483 | 589 | 149.3 | 84 | −118 | 70 | 8 | 485 | 595 | 548 | 548 | 212.8 | 75 | −64 | −41 | 16 | 544 | 544 | 579 | 479 | 303.5 | 33.5 | 33 | 74 | −112 | 24 | 567 | 464 | 506 | 506 | 351.6 | 69 | 85 | −12 | 32 | 510 | 510 | 469 | 569 | 85.7 | 88 | 10 | 144 | 40 | 404 | 561 | 483 | 589 | 149.3 | 84 | −118 | 70 |
| 1 | 434 | 562 | 486 | 610 | 155.0 | 83 | −123 | 57 | 9 | 490 | 490 | 565 | 459 | 217.7 | 72 | −60 | −46 | 17 | 549 | 549 | 582 | 480 | 307.2 | 29.1 | 89 | −112 | 25 | 569 | 470 | 520 | 520 | 26.2 | 70 | 70 | 34 | 33 | 519 | 519 | 471 | 570 | 91.0 | 92 | −2 | 142 | 41 | 434 | 562 | 486 | 610 | 155.0 | 83 | −123 | 57 |
| 2 | 450 | 563 | 496 | 496 | 163.8 | 82 | −118 | 34 | 10 | 495 | 495 | 566 | 462 | 223.9 | 69 | −54 | −52 | 18 | 554 | 554 | 584 | 481 | 326.2 | 53.1 | 12 | −75 | 26 | 573 | 475 | 528 | 528 | 61.0 | 70 | 60 | 110 | 34 | 529 | 529 | 475 | 573 | 93.3 | 94 | −8 | 140 | 42 | 450 | 563 | 496 | 496 | 163.8 | 82 | −118 | 34 |
| 3 | 460 | 565 | 505 | 505 | 164.5 | 82 | −120 | 33 | 11 | 500 | 500 | 567 | 464 | 231.5 | 65 | −46 | −58 | 19 | 560 | 560 | 589 | 483 | 331.3 | 61.1 | 07 | −59 | 27 | 580 | 480 | 537 | 537 | 62.8 | 70 | 61 | 120 | 35 | 539 | 539 | 478 | 577 | 97.5 | 96 | −17 | 131 | 43 | 460 | 565 | 505 | 505 | 164.5 | 82 | −120 | 33 |
| 4 | 464 | 567 | 506 | 506 | 174.0 | 81 | −109 | 11 | 12 | 510 | 510 | 569 | 469 | 251.5 | 58 | −23 | −72 | 20 | 561 | 404 | 589 | 483 | 334.1 | 65.1 | 02 | −49 | 28 | 595 | 485 | 548 | 548 | 69.7 | 76 | 47 | 130 | 36 | 544 | 544 | 479 | 579 | 99.3 | 96 | −20 | 125 | 44 | 464 | 567 | 506 | 506 | 174.0 | 81 | −109 | 11 |
| 5 | 470 | 569 | 520 | 520 | 193.2 | 81 | −81 | −19 | 13 | 519 | 519 | 570 | 471 | 274.4 | 49.7 | 6 | −86 | 21 | 562 | 434 | 610 | 486 | 336.5 | 67.1 | 99 | −42 | 29 | 490 | 490 | 459 | 565 | 73.2 | 79 | 40 | 134 | 37 | 549 | 549 | 480 | 582 | 101.0 | 97 | −23 | 119 | 45 | 470 | 569 | 520 | 520 | 193.2 | 81 | −81 | −19 |
| 6 | 475 | 573 | 528 | 528 | 205.7 | 80 | −67 | −32 | 14 | 529 | 529 | 573 | 475 | 284.3 | 45.2 | 3 | −93 | 22 | 563 | 450 | 496 | 496 | 341.7 | 68.9 | 4 | −31 | 30 | 495 | 495 | 462 | 566 | 76.5 | 81 | 33 | 138 | 38 | 554 | 554 | 481 | 584 | 128.8 | 91 | −80 | 100 | 46 | 475 | 573 | 528 | 528 | 205.7 | 80 | −67 | −32 |
| 7 | 480 | 580 | 537 | 537 | 205.6 | 81 | −66 | −32 | 15 | 539 | 539 | 577 | 478 | 298.7 | 37.4 | 8 | −100 | 23 | 565 | 460 | 505 | 505 | 342.3 | 69.1 | 92 | −29 | 31 | 500 | 500 | 464 | 567 | 79.7 | 84 | 25 | 141 | 39 | 560 | 560 | 483 | 589 | 141.8 | 86 | −107 | 84 | 47 | 480 | 580 | 537 | 537 | 141.8 | 86 | −107 | 84 |

***RYGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RYGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:*** 0.0, 0.0, 0.0 ***LAB*Wio:*** 100.0, 0.0, 0.0

| | | |

**48 step circle with interpretation *rgb* −> *rgb**$_d$ device hue steps of 1080 standard colours**

| | *rgb* −> *rgb**$_d$ | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | | *rgb* −> *rgb**$_d$ | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 404 561 483 589 | 149.3 | 84 | −118 | 70 | 8 | 485 595 548 548 | 212.8 | 75 | −64 | −41 | 16 | 544 544 579 479 | 303.5 | 33 | 74 | −112 | 24 | 567 464 506 506 | 351.6 | 69 | 85 | −123 | 25 | 10 510 469 569 | 85.7 | 88 | 10 | 144 | 40 | 404 561 483 589 | 149.3 | 84 | −118 | 70 |
| 1 | 434 562 486 610 | 155.0 | 83 | −123 | 57 | 9 | 490 490 565 459 | 217.7 | 72 | −60 | −46 | 17 | 549 549 582 480 | 307.2 | 29 | 89 | −112 | 25 | 569 470 520 520 | 26.2 | 70 | 70 | 34 | 33 | 519 519 471 570 | 91.0 | 92 | −2 | 142 | 41 | 434 562 486 610 | 155.0 | 83 | −123 | 57 |
| 2 | 450 563 496 496 | 163.8 | 82 | −118 | 34 | 10 | 495 495 566 462 | 223.9 | 69 | −54 | −52 | 18 | 554 554 584 481 | 326.2 | 53 | 112 | −75 | 26 | 573 475 528 528 | 61.0 | 70 | 60 | 110 | 34 | 529 529 475 573 | 93.3 | 94 | −8 | 140 | 42 | 450 563 496 496 | 163.8 | 82 | −118 | 34 |
| 3 | 460 565 505 505 | 164.5 | 82 | −120 | 33 | 11 | 500 500 567 464 | 231.5 | 65 | −46 | −58 | 19 | 560 560 589 483 | 331.3 | 61 | 107 | −59 | 27 | 580 480 537 537 | 62.8 | 70 | 61 | 120 | 35 | 539 539 478 577 | 97.5 | 96 | −17 | 131 | 43 | 460 565 505 505 | 164.5 | 82 | −120 | 33 |
| 4 | 464 567 506 506 | 174.0 | 81 | −109 | 11 | 12 | 510 510 569 469 | 251.5 | 58 | −23 | −72 | 20 | 561 404 589 483 | 334.1 | 65 | 102 | −49 | 28 | 595 485 548 548 | 69.7 | 76 | 47 | 130 | 36 | 544 544 479 579 | 99.3 | 96 | −20 | 125 | 44 | 464 567 506 506 | 174.0 | 81 | −109 | 11 |
| 5 | 470 569 520 520 | 193.2 | 81 | −81 | −19 | 13 | 519 519 570 471 | 274.4 | 49 | 6 | −86 | 21 | 562 434 610 486 | 336.5 | 67 | 99 | −42 | 29 | 490 490 459 565 | 73.2 | 79 | 40 | 134 | 37 | 549 549 480 582 | 101.0 | 97 | −23 | 119 | 45 | 470 569 520 520 | 193.2 | 81 | −81 | −19 |
| 6 | 475 573 528 528 | 205.7 | 80 | −67 | −32 | 14 | 529 529 573 475 | 284.3 | 45 | 23 | −93 | 22 | 563 450 496 496 | 341.7 | 68 | 94 | −31 | 30 | 495 495 462 566 | 76.5 | 81 | 33 | 138 | 38 | 554 554 481 584 | 128.8 | 91 | −80 | 100 | 46 | 475 573 528 528 | 205.7 | 80 | −67 | −32 |
| 7 | 480 580 537 537 | 205.6 | 81 | −66 | −32 | 15 | 539 539 577 478 | 298.7 | 37 | 58 | −100 | 23 | 565 460 505 505 | 342.3 | 69 | 92 | −29 | 31 | 500 500 464 567 | 79.7 | 84 | 25 | 141 | 39 | 560 560 483 589 | 141.8 | 86 | −107 | 84 | 47 | 480 580 537 537 | 141.8 | 86 | −107 | 84 |

***RYGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RYGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:*** 0.0, 0.0, 0.0 ***LAB*Wio:*** 100.0, 0.0, 0.0

| | | |