

# Converting Colors

$Y_{xy}(45.1165, 0.2391, 0.2762)$

Have a look what the booklet for  
Yxy(45.1165, 0.2391, 0.2762)  
contains.

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# Color

**Yxy(45.2944, 0.2392, 0.2765)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75BCE3
RGB	117, 188, 227
RGB Percent	46%, 74%, 89%
CMY	0.5411, 0.2627, 0.1099
CMYK	0.48, 0.17, 0.00, 0.11
HSL	201°, 66%, 67%
HSV	201°, 48%, 89%
XYZ	39.1842, 45.2944, 79.3348
YIQ	171.2170, -54.8350, -2.9230

# Conversions

## Conversions Part 2

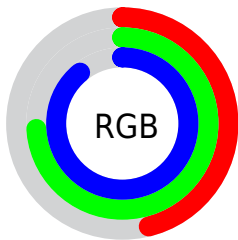
Format	Color
R <sub>Y</sub> B	117, 160, 227
Decimal	7716067
CIE Lab	73.09, -11.86, -26.37
CIE LCh	73, 28.917, 245.789
Yxy	45.2944, 0.2392, 0.2765
Android (android.graphics.Color)	4285906147 (0xFF75BCE3)
YUV	171.2170, 27.5010, -47.5483
Hunter-Lab	67.3011, -13.8504, -22.7805

# Details

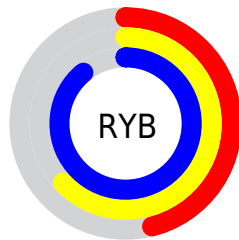
The Yxy color **45.2944, 0.2392, 0.2765** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **41.3905, 0.4232, 0.3745**, and the grayscale version is **40.7224, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9200, 0.2657, 0.3168**, and **21.2060, 0.2198, 0.2610** is the 20% darker color. If you saturate the color by 10%, you get **40.5669, 0.2261, 0.2633**, and if you desaturate by 10%, it is **50.5982, 0.2535, 0.2890**.

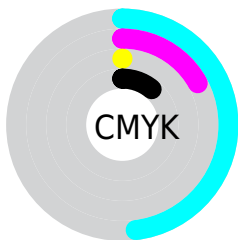
# Distribution



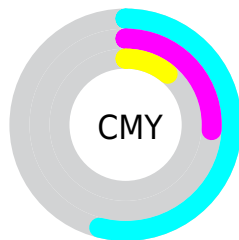
- Red (46%)
- Green (74%)
- Blue (89%)



- Red (46%)
- Yellow (63%)
- Blue (89%)



- Cyan (48%)
- Magenta (17%)
- Yellow (0%)
- Black (11%)



- Cyan (54%)
- Magenta (26%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2944, 0.2392, 0.2765 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 45.2944, 0.2392, 0.2765 by changing the saturation by 10% instead.



■ 45.2944, 0.2392,  
0.2765

■ 45.2944, 0.2392,  
0.2765

367.9646, 0.2750,  
0.3031

■ 31.6894, 0.2307,  
0.2699

■ 83.1620, 0.2519,  
0.2862

■ 21.1244, 0.2199,  
0.2614

■ 108.1934, 0.2568,  
0.2898

■ 13.2149, 0.2061,  
0.2502

■ 137.8024, 0.2609,  
0.2929

■ 7.5767, 0.1878,  
0.2349

172.3733, 0.2645,  
0.2955

■ 3.8253, 0.1626,  
0.2129

212.2906, 0.2676,  
0.2978

■ 1.5763, 0.1266,  
0.1794

257.9386, 0.2704,

■ 0.3416, 0.0109,

0.2998

0.1063

309.7018, 0.2728,  
0.3015

0.0000, 0.0000,  
0.0000

45.2944, 0.2392,  
0.2765

45.2944, 0.2392,  
0.2765

40.5669, 0.2261,  
0.2633

50.5982, 0.2535,  
0.2890

36.3793, 0.2145,  
0.2498

56.5013, 0.2686,  
0.3007

32.6985, 0.2048,  
0.2360

63.0315, 0.2841,  
0.3116

29.4835, 0.1972,  
0.2223

70.2130, 0.2997,  
0.3214

26.6760, 0.1916,  
0.2090

78.0685, 0.3151,  
0.3303

■ 26.2629, 0.1908,  
0.2069

■ 86.6194, 0.3301,  
0.3383

■ 91.7022, 0.3304,  
0.3460

■ 96.6592, 0.3295,  
0.3537

■ 98.3249, 0.3292,  
0.3562

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.2944, 0.2401, 0.3052



45.2944, 0.2392, 0.2765



45.2944, 0.2562, 0.2635

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



45.2944, 0.2392, 0.2765



45.2944, 0.3679, 0.3117



45.2944, 0.3331, 0.4012

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



45.2944, 0.2392, 0.2765



41.3905, 0.4232, 0.3745

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



45.2944, 0.3696, 0.3979



45.2944, 0.2392, 0.2765



45.2944, 0.3912, 0.3445

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



45.2944, 0.2392, 0.2765



45.2944, 0.3295, 0.2840



45.2944, 0.3915, 0.3759



45.2944, 0.2927, 0.3812



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.2944, 0.2392, 0.2765



45.2944, 0.2763, 0.2639



45.2944, 0.3915, 0.3759



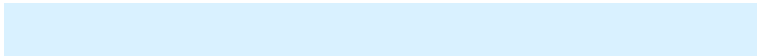
45.2944, 0.3463, 0.4026

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



45.2961, 0.2392, 0.2765



85.1054, 0.2893, 0.3150



61.0944, 0.2856, 0.4280



17.8020, 0.2860, 0.3128



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

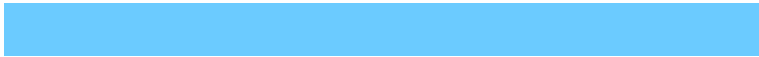


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.2961, 0.2392, 0.2765



52.8617, 0.2262, 0.2634



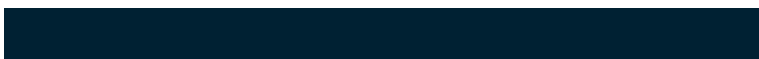
26.2461, 0.2246, 0.1987



15.4316, 0.2981, 0.3205



15.5471, 0.1914, 0.2089



1.3224, 0.1968, 0.2284



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



32.6871, 0.3591, 0.2491



36.0876, 0.3729, 0.2351



63.9463, 0.3919, 0.4317



14.5239, 0.3192, 0.3139



10.7672, 0.4353, 0.2172

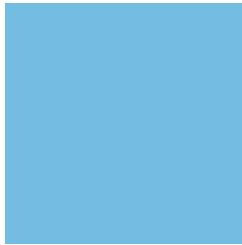


0.8132, 0.4143, 0.2056



# Previews

## White Background



This preview shows how the Yxy color 45.2944, 0.2392, 0.2765 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

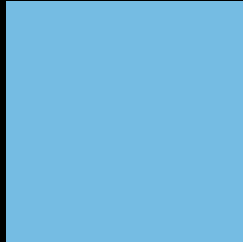
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2944, 0.2392, 0.2765 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2944, 0.2392, 0.2765**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2944, 0.2392, 0.2765.



This preview shows how white text looks on a background with the Yxy color 45.2944, 0.2392, 0.2765.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

45.2944, 0.2392, 0.2765

### Protanopia

44.9938, 0.2749, 0.2757

### Deuteranopia

44.8081, 0.2675, 0.2607



## Tritanopia

45.1461, 0.2472, 0.3062

# Trichromacy



## Original Color

45.2944, 0.2392, 0.2765

## Protanomaly

44.8057, 0.2600, 0.2755

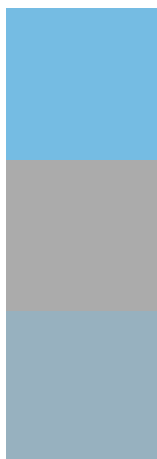
## Deuteranomaly

44.7837, 0.2557, 0.2660

## Tritanomaly

45.1927, 0.2443, 0.2955

# Monochromacy



## Original Color

45.2944, 0.2392, 0.2765

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

41.7852, 0.2806, 0.3094

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2944, 0.2392, 0.2765 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(117, 188, 227)` looks like.

```
.text, #text, p{  
    color:rgb(117, 188, 227)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(117, 188, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 188, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2944, 0.2392, 0.2765 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(117, 188, 227) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(117, 188, 227) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(117, 188, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 188, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 188, 227);  
box-shadow:4px 4px 4px 4px rgb(117, 188,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2944, 0.2392, 0.2765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 188, 227) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(117,  
188, 227) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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