

# Converting Colors

$Yxy(64.0980, 0.2397, 0.2896)$

Have a look what the booklet for  
Yxy(64.0980, 0.2397, 0.2896)  
contains.

<b>Yxy(64.0517, 0.2398, 0.2894)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(64.0517, 0.2398, 0.2894)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80DEFF
RGB	128, 222, 255
RGB Percent	50%, 87%, 100%
CMY	0.4981, 0.1294, 0.0000
CMYK	0.50, 0.13, 0.00, 0.00
HSL	196°, 100%, 75%
HSV	196°, 50%, 100%
XYZ	53.0739, 64.0517, 104.2002
YIQ	197.6560, -66.6170, -9.6650

# Conversions

## Conversions Part 2

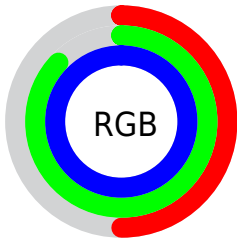
Format	Color
R <sub>Y</sub> B	128, 182, 255
Decimal	8445695
CIE Lab	83.99, -19.27, -24.69
CIE LCh	84, 31.318, 232.031
Yxy	64.0517, 0.2398, 0.2894
Android (android.graphics.Color)	4286635775 (0xFF80DEFF)
YUV	197.6560, 28.2706, -61.0883
Hunter-Lab	80.0323, -21.6831, -21.1716

# Details

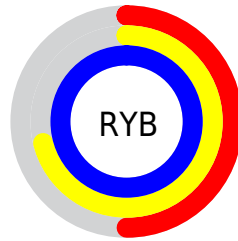
The Yxy color **64.0517, 0.2398, 0.2894** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **48.2974, 0.4356, 0.3635**, and the grayscale version is **56.1042, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.3048, 0.2736, 0.3289**, and **32.8729, 0.2234, 0.2797** is the 20% darker color. If you saturate the color by 10%, you get **58.8674, 0.2282, 0.2799**, and if you desaturate by 10%, it is **69.8716, 0.2529, 0.2985**.

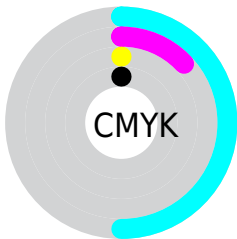
# Distribution



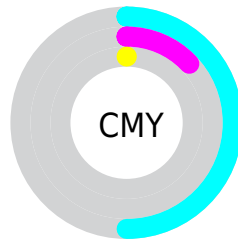
- Red (50%)
- Green (87%)
- Blue (100%)



- Red (50%)
- Yellow (71%)
- Blue (100%)



- Cyan (50%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)




- Cyan (50%)
- Magenta (13%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.0517, 0.2398, 0.2894 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 64.0517, 0.2398, 0.2894 by changing the saturation by 10% instead.



 64.0517, 0.2398,  
0.2894

 64.0517, 0.2398,  
0.2894

439.3763, 0.2732,  
0.3087


 46.6925, 0.2323,  
0.2848


 110.6854, 0.2513,  
0.2963

 32.7927, 0.2232,  
0.2790


 140.7287, 0.2558,  
0.2989

 21.9677, 0.2117,  
0.2715


 175.7689, 0.2597,  
0.3012

 13.8331, 0.1971,  
0.2616

216.1903, 0.2631,  
0.3031

 8.0047, 0.1778,  
0.2478

262.3774, 0.2661,  
0.3048

 4.0980, 0.1516,  
0.2276

314.7145, 0.2687,

 1.7285, 0.1149,

0.3063

0.1962

373.5860, 0.2711,  
0.3076

0.4420, 0.0000,  
0.1356

0.0000, 0.0000,  
0.0000

64.0517, 0.2398,  
0.2894

64.0517, 0.2398,  
0.2894

58.8674, 0.2282,  
0.2799

69.8716, 0.2529,  
0.2985

54.2782, 0.2183,  
0.2702

76.3617, 0.2671,  
0.3071

50.2395, 0.2103,  
0.2603

83.5549, 0.2821,  
0.3151

46.6979, 0.2044,  
0.2505

91.4812, 0.2975,  
0.3225

■ 43.5688, 0.2003,  
0.2408

100.0000, 0.3127,  
0.3290

■ 43.5127, 0.2002,  
0.2407

# Harmonies

## Analogous

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



64.0517, 0.2489, 0.3228



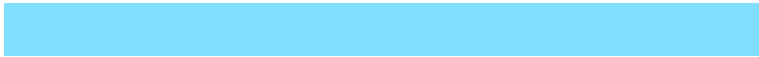
64.0517, 0.2398, 0.2894



64.0517, 0.2485, 0.2695

# Triad

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



64.0517, 0.2398, 0.2894



64.0517, 0.3501, 0.2990



64.0517, 0.3498, 0.3998

# Complementary

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



64.0517, 0.2398, 0.2894



48.2974, 0.4356, 0.3635

# 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.



64.0517, 0.3796, 0.3876



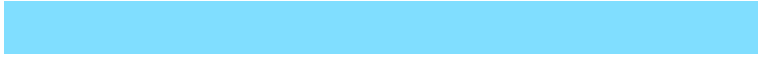
64.0517, 0.2398, 0.2894



64.0517, 0.3806, 0.3293

# Square

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



64.0517, 0.2398, 0.2894



64.0517, 0.3104, 0.2763



64.0517, 0.3914, 0.3612

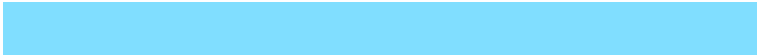


64.0517, 0.3111, 0.3907



# Rectangle

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



64.0517, 0.2398, 0.2894



64.0517, 0.2636, 0.2651



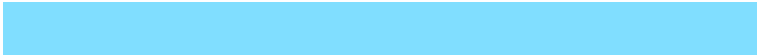
64.0517, 0.3914, 0.3612



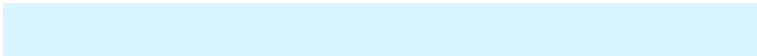
64.0517, 0.3612, 0.3979

# Sweetspot

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



64.0520, 0.2398, 0.2894



87.2771, 0.2895, 0.3187



78.6359, 0.2909, 0.4487



18.3275, 0.2862, 0.3172



0.0000, 0.0000, 0.0000

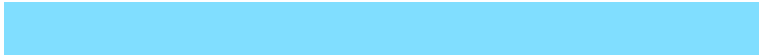


21.4041, 0.3127, 0.3290



# Same Dimension

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



64.0520, 0.2398, 0.2894



58.7766, 0.2280, 0.2798



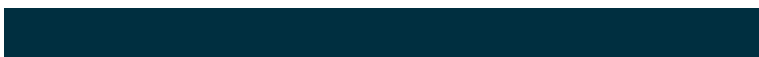
36.8558, 0.2243, 0.2094



19.6358, 0.2980, 0.3227



22.9912, 0.2006, 0.2423



2.4156, 0.2037, 0.2533



# Inverse Universe

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



41.9660, 0.3490, 0.2357



35.6823, 0.3593, 0.2199



75.7235, 0.4009, 0.4241



18.2150, 0.3178, 0.3116



13.0489, 0.4000, 0.1977

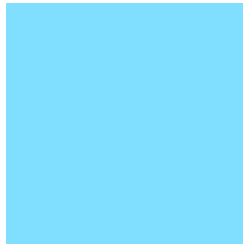


1.2884, 0.3889, 0.1916



# Previews

## White Background



This preview shows how the Yxy color 64.0517, 0.2398, 0.2894 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

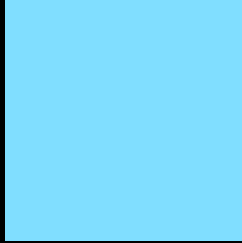
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.0517, 0.2398, 0.2894 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 64.0517, 0.2398, 0.2894**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.0517, 0.2398, 0.2894.



This preview shows how white text looks on a background with the Yxy color 64.0517, 0.2398, 0.2894.

# 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

64.0517, 0.2398, 0.2894

### Protanopia

63.6357, 0.2834, 0.2868

### Deuteranopia

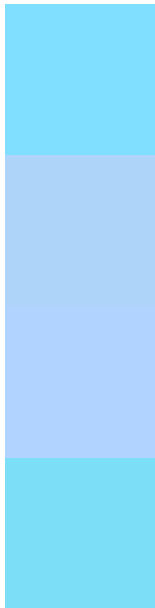
63.5792, 0.2786, 0.2746



## Tritanopia

64.0072, 0.2444, 0.3067

# Trichromacy



**Original Color**

64.0517, 0.2398, 0.2894

**Protanomaly**

62.9252, 0.2644, 0.2864

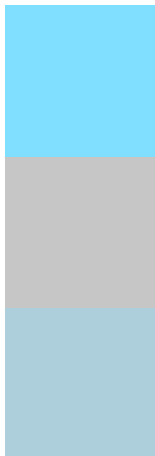
**Deuteranomaly**

63.0386, 0.2622, 0.2790

**Tritanomaly**

63.8507, 0.2423, 0.2997

# Monochromacy



**Original Color**

64.0517, 0.2398, 0.2894

**Achromatopsia**

56.4712, 0.3127, 0.3290

**Achromatomaly**

58.6244, 0.2806, 0.3143

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.0517, 0.2398, 0.2894 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(128, 222, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 222, 255)  
}
```

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(128, 222, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 222, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.0517, 0.2398, 0.2894 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(128, 222, 255) }
```

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

```
.border{ border-color:rgb(128, 222, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 222, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 222, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 222, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 222,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.0517, 0.2398, 0.2894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 222, 255) }
```

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

```
.background{ background-color: rgb(128,  
222, 255) }
```

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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