

# Converting Colors

$Yxy(63.8915, 0.2393, 0.3207)$

Have a look what the booklet for  
Yxy(63.8915, 0.2393, 0.3207)  
contains.

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# Color

**Yxy(64.0800, 0.2393, 0.3212)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63E4EA
RGB	99, 228, 234
RGB Percent	39%, 89%, 92%
CMY	0.6116, 0.1059, 0.0824
CMYK	0.58, 0.03, 0.00, 0.08
HSL	183°, 76%, 65%
HSV	183°, 58%, 92%
XYZ	47.7408, 64.0800, 87.6811
YIQ	190.1130, -78.8100, -25.4820

# Conversions

## Conversions Part 2

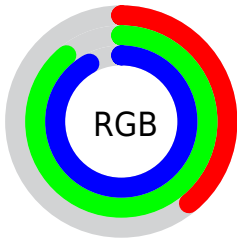
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	99, 165, 234
Decimal	6546666
CIE Lab	84.01, -33.61, -13.64
CIE LCh	84, 36.276, 202.094
Yxy	64.0800, 0.2393, 0.3212
Android (android.graphics.Color)	4284736746 (0xFF63E4EA)
YUV	190.1130, 21.6363, -79.9061
Hunter-Lab	80.0500, -33.6323, -8.9071

# Details

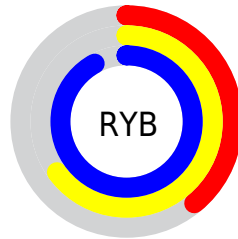
The Yxy color **64.0800, 0.2393, 0.3212** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **28.4984, 0.4858, 0.3358**, and the grayscale version is **51.4742, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.3171, 0.2610, 0.3288**, and **32.7646, 0.2224, 0.3185** is the 20% darker color. If you saturate the color by 10%, you get **62.3805, 0.2320, 0.3197**, and if you desaturate by 10%, it is **66.1695, 0.2486, 0.3227**.

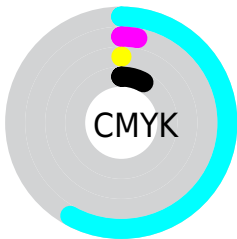
# Distribution



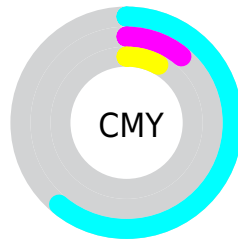
- Red (39%)
- Green (89%)
- Blue (92%)



- Red (39%)
- Yellow (65%)
- Blue (92%)



- Cyan (58%)
- Magenta (3%)
- Yellow (0%)
- Black (8%)




- Cyan (61%)
- Magenta (11%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.0800, 0.2393, 0.3212 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 64.0800, 0.2393, 0.3212 by changing the saturation by 10% instead.





 64.0800, 0.2393,  
0.3212

 64.0800, 0.2393,  
0.3212


439.4785, 0.2731,  
0.3259

 46.7155, 0.2317,  
0.3199

 110.7261, 0.2510,  
0.3230

 32.8108, 0.2223,  
0.3181


 140.7765, 0.2555,  
0.3237

 21.9815, 0.2105,  
0.3156


 175.8244, 0.2595,  
0.3242

 13.8433, 0.1953,  
0.3120

216.2540, 0.2629,  
0.3247

 8.0118, 0.1751,  
0.3064

262.4498, 0.2659,  
0.3250

 4.1025, 0.1473,  
0.2970

314.7962, 0.2686,

 1.7311, 0.1056,

0.3253

0.2797

373.6777, 0.2710,  
0.3256

0.4436, 0.0000,  
0.2261

0.0000, 0.0000,  
0.0000

64.0800, 0.2393,  
0.3212

64.0800, 0.2393,  
0.3212

62.3805, 0.2320,  
0.3197

66.1695, 0.2486,  
0.3227

61.0296, 0.2266,  
0.3182

68.6717, 0.2596,  
0.3242

59.9899, 0.2230,  
0.3167

71.6159, 0.2722,  
0.3256


59.2074, 0.2211,  
0.3153


75.0269, 0.2860,  
0.3269


 59.0427, 0.2208,  
0.3149

 78.9274, 0.3009,  
0.3281

 83.3389, 0.3164,  
0.3293

 86.7666, 0.3269,  
0.3303

 87.3631, 0.3268,  
0.3313

 87.9631, 0.3267,  
0.3323

# Harmonies

## Analogous

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



64.0800, 0.2682, 0.3664



64.0800, 0.2393, 0.3212



64.0800, 0.2292, 0.2828

# Triad

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



64.0800, 0.2393, 0.3212



64.0800, 0.3098, 0.2688



64.0800, 0.3898, 0.3962

# Complementary

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



64.0800, 0.2393, 0.3212



28.4984, 0.4858, 0.3358

# 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.



64.0800, 0.4039, 0.3653



64.0800, 0.2393, 0.3212



64.0800, 0.3560, 0.2946

# Square

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



64.0800, 0.2393, 0.3212



64.0800, 0.2675, 0.2563



64.0800, 0.3915, 0.3289



64.0800, 0.3550, 0.4113

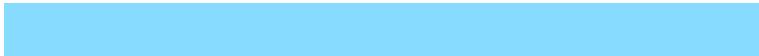


# Rectangle

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



64.0800, 0.2393, 0.3212



64.0800, 0.2336, 0.2659



64.0800, 0.3915, 0.3289



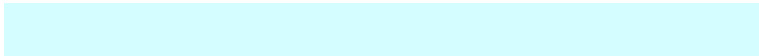
64.0800, 0.3972, 0.3871

# Sweetspot

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



64.0824, 0.2393, 0.3212



91.4652, 0.2869, 0.3270



62.4813, 0.3021, 0.5096



19.3866, 0.2840, 0.3267



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.



64.0824, 0.2393, 0.3212



75.5289, 0.2309, 0.3194



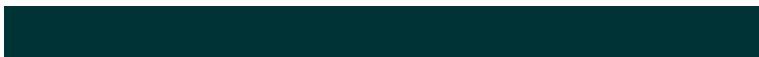
34.4395, 0.2193, 0.2294



17.0007, 0.2981, 0.3279



33.2349, 0.2209, 0.3151



2.6452, 0.2214, 0.3172



# Inverse Universe

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



32.0222, 0.3250, 0.1986



33.5870, 0.3274, 0.1807



47.5206, 0.4353, 0.4076



15.3016, 0.3145, 0.3068



12.8479, 0.3323, 0.1604

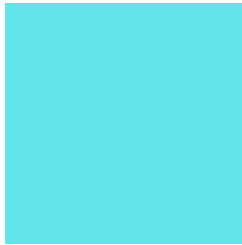


1.0125, 0.3306, 0.1595



# Previews

## White Background



This preview shows how the Yxy color 64.0800, 0.2393, 0.3212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

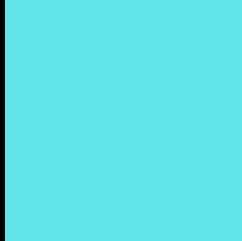
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.0800, 0.2393, 0.3212 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

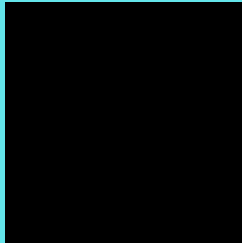
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.0800, 0.2393, 0.3212**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.0800, 0.2393, 0.3212.

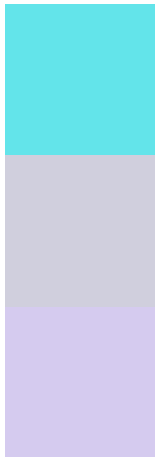


This preview shows how white text looks on a background with the Yxy color 64.0800, 0.2393, 0.3212.

# 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

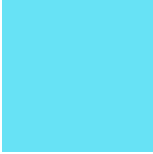
64.0800, 0.2393, 0.3212

### Protanopia

63.2560, 0.3038, 0.3131

### Deuteranopia

63.0900, 0.2954, 0.2895



## Tritanopia

63.8688, 0.2355, 0.3052

# Trichromacy



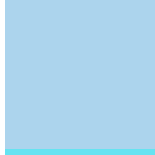
## Original Color

64.0800, 0.2393, 0.3212



## Protanomaly

62.4167, 0.2740, 0.3157



## Deuteranomaly

61.9720, 0.2698, 0.2994



## Tritanomaly

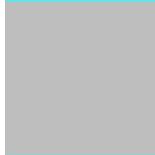
64.1138, 0.2371, 0.3113

# Monochromacy



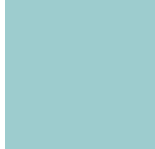
## Original Color

64.0800, 0.2393, 0.3212



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

54.8101, 0.2777, 0.3263

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.0800, 0.2393, 0.3212 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(99, 228, 234)` looks like.

```
.text, #text, p{  
    color:rgb(99, 228, 234)  
}
```

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(99, 228, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 228, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 64.0800, 0.2393, 0.3212 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(99, 228, 234) }
```

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

```
.border{ border-color:rgb(99, 228, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 228, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 228, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 228, 234);  
box-shadow:4px 4px 4px 4px rgb(99, 228,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.0800, 0.2393, 0.3212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 228, 234) }
```

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

```
.background{ background-color: rgb(99, 228,  
234) }
```

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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