

# Converting Colors

$Y_{xy}(49.5983, 0.2409, 0.2795)$

Have a look what the booklet for  
Yxy(49.5983, 0.2409, 0.2795)  
contains.

<b>Yxy(49.6313, 0.2408, 0.2795)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(49.6313, 0.2408, 0.2795)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BC4EA
RGB	123, 196, 234
RGB Percent	48%, 77%, 92%
CMY	0.5177, 0.2314, 0.0823
CMYK	0.47, 0.16, 0.00, 0.08
HSL	201°, 73%, 70%
HSV	201°, 47%, 92%
XYZ	42.7593, 49.6313, 85.1812
YIQ	178.5050, -55.7060, -3.6580

# Conversions

## Conversions Part 2

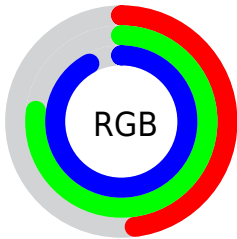
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	123, 167, 234
Decimal	8111338
CIE Lab	75.84, -12.75, -25.94
CIE LCh	76, 28.902, 243.816
Yxy	49.6313, 0.2408, 0.2795
Android (android.graphics.Color)	4286301418 (0xFF7BC4EA)
YUV	178.5050, 27.3590, -48.6779
Hunter-Lab	70.4495, -14.9461, -22.3735

# Details

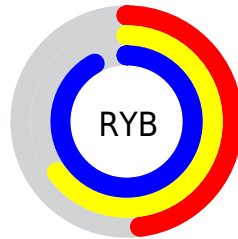
The Yxy color **49.6313, 0.2408, 0.2795** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **44.4141, 0.4212, 0.3722**, and the grayscale version is **44.6759, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.1739, 0.2698, 0.3267**, and **23.6503, 0.2224, 0.2654** is the 20% darker color. If you saturate the color by 10%, you get **44.5904, 0.2277, 0.2669**, and if you desaturate by 10%, it is **55.2814, 0.2551, 0.2915**.

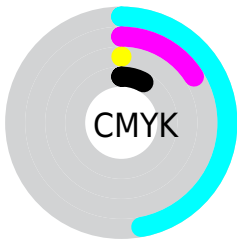
# Distribution



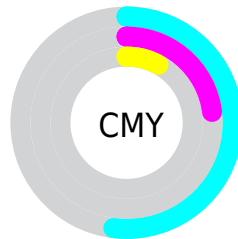
- Red (48%)
- Green (77%)
- Blue (92%)



- Red (48%)
- Yellow (65%)
- Blue (92%)



- Cyan (47%)
- Magenta (16%)
- Yellow (0%)
- Black (8%)




- Cyan (52%)
- Magenta (23%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6313, 0.2408, 0.2795 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 49.6313, 0.2408, 0.2795 by changing the saturation by 10% instead.





 49.6313, 0.2408,  
0.2795


 49.6313, 0.2408,  
0.2795


385.2223, 0.2753,  
0.3042

 35.1205, 0.2327,  
0.2734


 89.6284, 0.2530,  
0.2884

 23.7557, 0.2226,  
0.2657


 115.8834, 0.2576,  
0.2918

 15.1525, 0.2097,  
0.2556


 146.8221, 0.2616,  
0.2947

 8.9265, 0.1927,  
0.2418

182.8286, 0.2651,  
0.2971

 4.6933, 0.1695,  
0.2223

224.2876, 0.2681,  
0.2993

 2.0684, 0.1368,  
0.1929

271.5832, 0.2708,

 0.6468, 0.0682,

0.3011

0.1453

325.1000, 0.2732,  
0.3028

0.0000, 0.0000,  
0.0000

49.6313, 0.2408,  
0.2795

49.6313, 0.2408,  
0.2795

44.5904, 0.2277,  
0.2669

55.2814, 0.2551,  
0.2915

40.1202, 0.2161,  
0.2538

61.5650, 0.2702,  
0.3028

36.1856, 0.2064,  
0.2405

68.5113, 0.2856,  
0.3131

32.7438, 0.1988,  
0.2273

76.1461, 0.3012,  
0.3226

29.7386, 0.1932,  
0.2144

84.4933, 0.3166,  
0.3311

■ 29.0197, 0.1920,  
0.2111

■ 91.9486, 0.3260,  
0.3388

■ 96.8775, 0.3253,  
0.3465

■ 98.7216, 0.3250,  
0.3493

# Harmonies

## Analogous

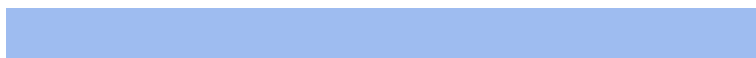
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.6313, 0.2429, 0.3083



49.6313, 0.2408, 0.2795



49.6313, 0.2563, 0.2657

# Triad

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



49.6313, 0.2408, 0.2795



49.6313, 0.3641, 0.3102



49.6313, 0.3352, 0.3994

# Complementary

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



49.6313, 0.2408, 0.2795



44.4141, 0.4212, 0.3722

# 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.



49.6313, 0.3699, 0.3949



49.6313, 0.2408, 0.2795



49.6313, 0.3879, 0.3420

# Square

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



49.6313, 0.2408, 0.2795



49.6313, 0.3263, 0.2838



49.6313, 0.3898, 0.3729



49.6313, 0.2958, 0.3814



# Rectangle

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



49.6313, 0.2408, 0.2795



49.6313, 0.2753, 0.2654



49.6313, 0.3898, 0.3729



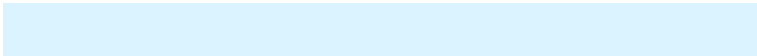
49.6313, 0.3478, 0.4003

# Sweetspot

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



49.6332, 0.2408, 0.2795



86.2949, 0.2909, 0.3164



65.6039, 0.2869, 0.4284



18.0509, 0.2875, 0.3143



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

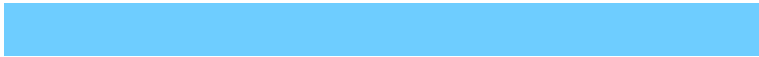


# Same Dimension

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



49.6332, 0.2408, 0.2795



54.2891, 0.2279, 0.2671



29.3456, 0.2269, 0.2041



16.2031, 0.2981, 0.3207



16.5475, 0.1925, 0.2131



1.4770, 0.1975, 0.2310



# Inverse Universe

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



35.6431, 0.3564, 0.2492



36.7558, 0.3694, 0.2348



67.7876, 0.3913, 0.4283



15.2210, 0.3190, 0.3136



11.1633, 0.4307, 0.2146

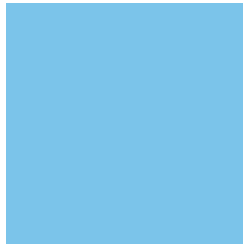


0.8945, 0.4116, 0.2041



# Previews

## White Background



This preview shows how the Yxy color 49.6313, 0.2408, 0.2795 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

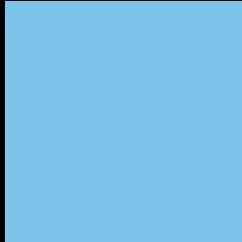
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6313, 0.2408, 0.2795 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

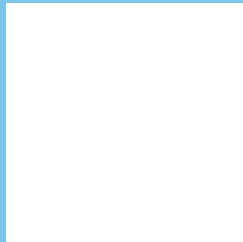
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6313, 0.2408, 0.2795**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6313, 0.2408, 0.2795.



This preview shows how white text looks on a background with the Yxy color 49.6313, 0.2408, 0.2795.

# 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

49.6313, 0.2408, 0.2795

### Protanopia

49.1191, 0.2769, 0.2776

### Deuteranopia

49.4464, 0.2704, 0.2644



## Tritanopia

49.5351, 0.2481, 0.3071

# Trichromacy



**Original Color**

49.6313, 0.2408, 0.2795

**Protanomaly**

48.7917, 0.2616, 0.2773

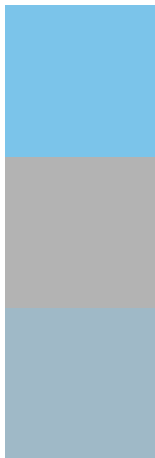
**Deuteranomaly**

49.2917, 0.2582, 0.2695

**Tritanomaly**

49.5840, 0.2453, 0.2968

# Monochromacy



**Original Color**

49.6313, 0.2408, 0.2795

**Achromatopsia**

45.0786, 0.3127, 0.3290

**Achromatomaly**

46.1924, 0.2818, 0.3103

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6313, 0.2408, 0.2795 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(123, 196, 234)` looks like.

```
.text, #text, p{  
    color:rgb(123, 196, 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(123, 196, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 196, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6313, 0.2408, 0.2795 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(123, 196, 234) }
```

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

```
.border{ border-color:rgb(123, 196, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 196, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 196, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 196, 234);  
box-shadow:4px 4px 4px 4px rgb(123, 196,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6313, 0.2408, 0.2795 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 196, 234) }
```

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

```
.background{ background-color: rgb(123,  
196, 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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