

# Converting Colors

$Y_{xy}(47.4766, 0.2206, 0.2700)$

Have a look what the booklet for  
Yxy(47.4766, 0.2206, 0.2700)  
contains.

<b>Yxy(47.4766, 0.2206, 0.2700)</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(47.4766, 0.2206, 0.2700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50C4F0
RGB	80, 196, 240
RGB Percent	31%, 77%, 94%
CMY	0.6855, 0.2314, 0.0587
CMYK	0.67, 0.18, 0.00, 0.06
HSL	197°, 84%, 63%
HSV	197°, 67%, 94%
XYZ	38.7901, 47.4766, 89.5725
YIQ	166.3320, -83.2600, -10.9080

# Conversions

## Conversions Part 2

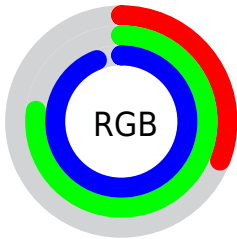
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	80, 147, 240
Decimal	5293296
CIE Lab	74.49, -19.18, -31.38
CIE LCh	74, 36.774, 238.562
Yxy	47.4766, 0.2206, 0.2700
Android (android.graphics.Color)	4283483376 (0xFF50C4F0)
YUV	166.3320, 36.3183, -75.7132
Hunter-Lab	68.9033, -20.0914, -28.8432

# Details

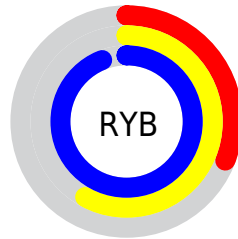
The Yxy color **47.4766, 0.2206, 0.2700** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **33.5840, 0.4961, 0.3733**, and the grayscale version is **38.1782, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4903, 0.2537, 0.3266**, and **22.8067, 0.2038, 0.2536** is the 20% darker color. If you saturate the color by 10%, you get **43.6929, 0.2118, 0.2595**, and if you desaturate by 10%, it is **51.7684, 0.2313, 0.2803**.

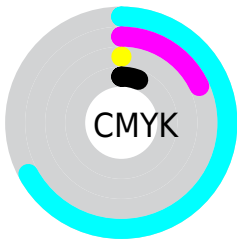
# Distribution



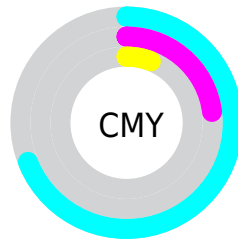
- Red (31%)
- Green (77%)
- Blue (94%)



- Red (31%)
- Yellow (58%)
- Blue (94%)



- Cyan (67%)
- Magenta (18%)
- Yellow (0%)
- Black (6%)



- Cyan (69%)
- Magenta (23%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.4766, 0.2206, 0.2700 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 47.4766, 0.2206, 0.2700 by changing the saturation by 10% instead.




 47.4766, 0.2206,  
0.2700

 47.4766, 0.2206,  
0.2700


 376.7137, 0.2645,  
0.2999


 33.4126, 0.2104,  
0.2626

 86.4246, 0.2360,  
0.2809

 22.4427, 0.1979,  
0.2532

 112.0774, 0.2419,  
0.2849


 14.1825, 0.1820,  
0.2408


 142.3619, 0.2470,  
0.2884

 8.2477, 0.1615,  
0.2241

 177.6624, 0.2514,  
0.2914

 4.2539, 0.1344,  
0.2006

 218.3635, 0.2553,  
0.2939

 1.8166, 0.0983,  
0.1660

 264.8495, 0.2587,

 0.4975, 0.0010,

0.2962

0.1095

317.5048, 0.2618,  
0.2982

0.0000, 0.0000,  
0.0000

47.4766, 0.2206,  
0.2700

47.4766, 0.2206,  
0.2700

43.6929, 0.2118,  
0.2595

51.7684, 0.2313,  
0.2803

40.3689, 0.2049,  
0.2491

56.6006, 0.2437,  
0.2903

37.4519, 0.2001,  
0.2387


62.0079, 0.2573,  
0.2998


36.5209, 0.1987,  
0.2352

68.0204, 0.2719,  
0.3087

74.6657, 0.2871,  
0.3169

 81.9693, 0.3025,  
0.3244

 89.9555, 0.3180,  
0.3312

 95.2355, 0.3219,  
0.3376

 99.0725, 0.3214,  
0.3434

# Harmonies

## Analogous

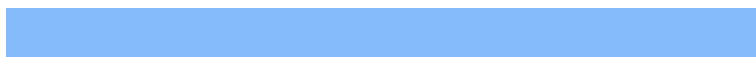
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



47.4766, 0.2268, 0.3093



47.4766, 0.2206, 0.2700



47.4766, 0.2361, 0.2501

# Triad

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



47.4766, 0.2206, 0.2700



47.4766, 0.3713, 0.2982



47.4766, 0.3491, 0.4218

# Complementary

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



47.4766, 0.2206, 0.2700



33.5840, 0.4961, 0.3733

# 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.



47.4766, 0.3917, 0.4092



47.4766, 0.2206, 0.2700



47.4766, 0.4067, 0.3370

# Square

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



47.4766, 0.2206, 0.2700



47.4766, 0.3205, 0.2673



47.4766, 0.4138, 0.3769



47.4766, 0.2988, 0.4043



# Rectangle

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



47.4766, 0.2206, 0.2700



47.4766, 0.2576, 0.2480



47.4766, 0.4138, 0.3769



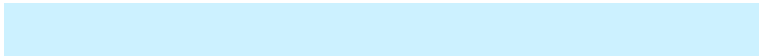
47.4766, 0.3649, 0.4206

# Sweetspot

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



47.4783, 0.2206, 0.2700



82.9371, 0.2818, 0.3141



65.4715, 0.2865, 0.4929



17.2913, 0.2775, 0.3118



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.



47.4783, 0.2206, 0.2700



48.6746, 0.2090, 0.2557



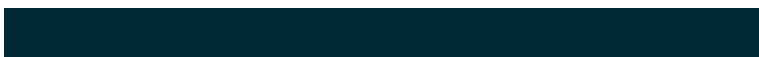
20.8424, 0.1938, 0.1586



17.1496, 0.2981, 0.3223



20.2223, 0.1992, 0.2369



1.8478, 0.2029, 0.2505



# Inverse Universe

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



28.2791, 0.3691, 0.2140



27.7415, 0.3849, 0.2026



61.6940, 0.4289, 0.4509



15.9528, 0.3180, 0.3120



11.8348, 0.4055, 0.2007

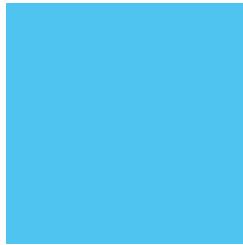


1.0012, 0.3917, 0.1932



# Previews

## White Background



This preview shows how the Yxy color 47.4766, 0.2206, 0.2700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

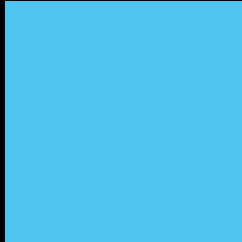
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.4766, 0.2206, 0.2700 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

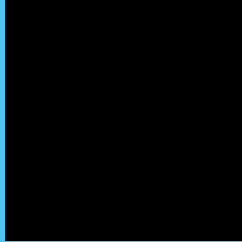
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

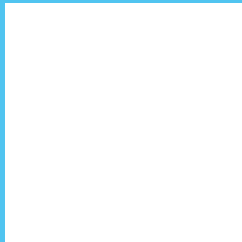
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.4766, 0.2206, 0.2700**

## Background



This preview shows how black text looks on a background with the Yxy color 47.4766, 0.2206, 0.2700.



This preview shows how white text looks on a background with the Yxy color 47.4766, 0.2206, 0.2700.

# 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

47.4766, 0.2206, 0.2700

### Protanopia

46.7900, 0.2701, 0.2694

### Deuteranopia

46.7712, 0.2567, 0.2503



## Tritanopia

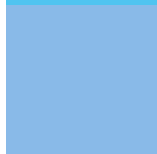
47.4597, 0.2280, 0.3060

# Trichromacy



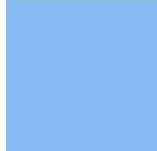
## Original Color

47.4766, 0.2206, 0.2700



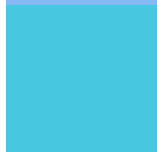
## Protanomaly

46.2624, 0.2471, 0.2694



## Deuteranomaly

46.2373, 0.2395, 0.2554



## Tritanomaly

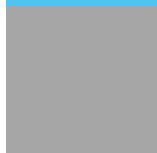
47.6608, 0.2253, 0.2927

# Monochromacy



## Original Color

47.4766, 0.2206, 0.2700



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

40.4454, 0.2674, 0.3060

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.4766, 0.2206, 0.2700 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(80, 196, 240)` looks like.

```
.text, #text, p{  
    color:rgb(80, 196, 240)  
}
```

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(80, 196, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 196, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 47.4766, 0.2206, 0.2700 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(80, 196, 240) }
```

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

```
.border{ border-color:rgb(80, 196, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 196, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 196, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 196, 240);  
box-shadow:4px 4px 4px 4px rgb(80, 196,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.4766, 0.2206, 0.2700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 196, 240) }
```

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

```
.background{ background-color: rgb(80, 196,  
240) }
```

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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