

# Converting Colors

$Yxy(48.5158, 0.2271, 0.2498)$

Have a look what the booklet for  
Yxy(48.5158, 0.2271, 0.2498)  
contains.

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# Color

**Yxy(48.7012, 0.2273, 0.2502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75C0FF
RGB	117, 192, 255
RGB Percent	46%, 75%, 100%
CMY	0.5410, 0.2471, 0.0000
CMYK	0.54, 0.25, 0.00, 0.00
HSL	207°, 100%, 73%
HSV	207°, 54%, 100%
XYZ	44.2437, 48.7012, 101.7041
YIQ	176.7570, -64.9230, 3.6930

# Conversions

## Conversions Part 2

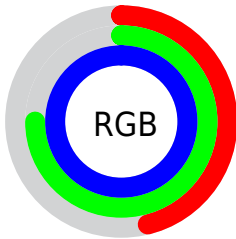
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">117, 166, 255</a>
Decimal	<a href="#">7717119</a>
CIELab	<a href="#">75.27, -5.88, -38.15</a>
CIELCh	<a href="#">75, 38.601, 261.236</a>
Yxy	<a href="#">48.7012, 0.2273, 0.2502</a>
Android (android.graphics.Color)	<a href="#">4285907199</a> ( <a href="#">0xFF75C0FF</a> )
YUV	<a href="#">176.7570, 38.5738, -52.4069</a>
Hunter-Lab	<a href="#">69.7862, -8.9588, -37.5569</a>

# Details

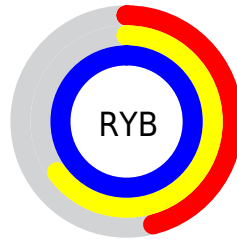
The Yxy color **48.7012, 0.2273, 0.2502** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **55.2087, 0.4333, 0.3935**, and the grayscale version is **43.6562, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.7019, 0.2677, 0.3213**, and **23.2725, 0.2065, 0.2306** is the 20% darker color. If you saturate the color by 10%, you get **42.2541, 0.2135, 0.2324**, and if you desaturate by 10%, it is **56.0331, 0.2424, 0.2674**.

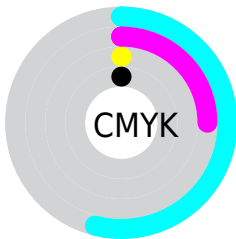
# Distribution



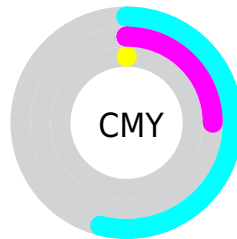
- Red (46%)
- Green (75%)
- Blue (100%)



- Red (46%)
- Yellow (65%)
- Blue (100%)



- Cyan (54%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)




- Cyan (54%)
- Magenta (25%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.7012, 0.2273, 0.2502 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 48.7012, 0.2273, 0.2502 by changing the saturation by 10% instead.




 48.7012, 0.2273,  
0.2502


 48.7012, 0.2273,  
0.2502


381.5648, 0.2680,  
0.2884


 34.3825, 0.2179,  
0.2412


 88.2475, 0.2415,  
0.2637

 23.1876, 0.2063,  
0.2300

 114.2439, 0.2470,  
0.2689

 14.7321, 0.1917,  
0.2158


 144.9017, 0.2518,  
0.2733

 8.6316, 0.1728,  
0.1972

180.6052, 0.2559,  
0.2772

 4.5017, 0.1480,  
0.1722

221.7389, 0.2595,  
0.2805

 1.9580, 0.1146,  
0.1379

268.6871, 0.2626,

 0.5829, 0.0613,

0.2835

0.0871

321.8343, 0.2655,  
0.2861

0.0000, 0.0000,  
0.0000

48.7012, 0.2273,  
0.2502

48.7012, 0.2273,  
0.2502

42.2541, 0.2135,  
0.2324

56.0331, 0.2424,  
0.2674

36.6439, 0.2014,  
0.2144

64.2958, 0.2583,  
0.2835

31.8139, 0.1915,  
0.1965

73.5297, 0.2745,  
0.2984

27.6971, 0.1839,  
0.1792

83.7730, 0.2906,  
0.3121

25.5510, 0.1804,  
0.1694

95.0612, 0.3064,  
0.3243

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



48.7012, 0.2167, 0.2757



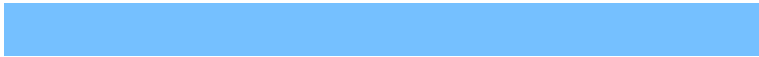
48.7012, 0.2273, 0.2502



48.7012, 0.2590, 0.2454

# Triad

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



48.7012, 0.2273, 0.2502



48.7012, 0.4039, 0.3269



48.7012, 0.3108, 0.4151

# Complementary

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



48.7012, 0.2273, 0.2502



55.2087, 0.4333, 0.3935

# 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.



48.7012, 0.3625, 0.4251



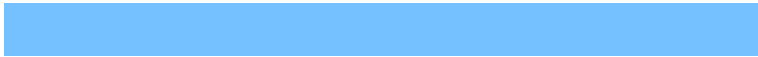
48.7012, 0.2273, 0.2502



48.7012, 0.4190, 0.3687

# Square

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



48.7012, 0.2273, 0.2502



48.7012, 0.3616, 0.2882



48.7012, 0.4028, 0.4053

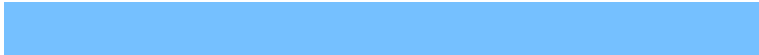


48.7012, 0.2620, 0.3744



# Rectangle

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



48.7012, 0.2273, 0.2502



48.7012, 0.2899, 0.2527



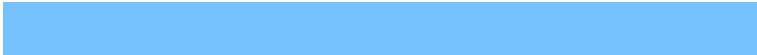
48.7012, 0.4028, 0.4053



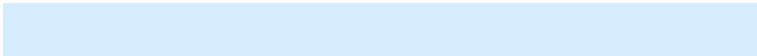
48.7012, 0.3284, 0.4222

# Sweetspot

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



48.7008, 0.2273, 0.2502



81.7480, 0.2876, 0.3096



78.5646, 0.2770, 0.4247



17.0367, 0.2843, 0.3068



0.0000, 0.0000, 0.0000

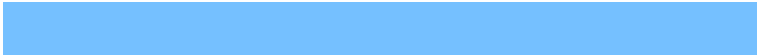


21.4041, 0.3127, 0.3290



# Same Dimension

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



48.7008, 0.2273, 0.2502



41.7161, 0.2123, 0.2308



25.4056, 0.2092, 0.1631



19.0131, 0.2979, 0.3179



13.6534, 0.1811, 0.1721



1.5480, 0.1865, 0.1914



# Inverse Universe

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



37.7982, 0.3832, 0.2536



31.7132, 0.4051, 0.2424



89.7430, 0.3945, 0.4536



18.1522, 0.3209, 0.3162



12.1063, 0.4781, 0.2407

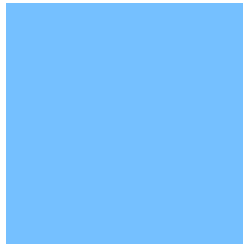


1.2008, 0.4552, 0.2281



# Previews

## White Background



This preview shows how the Yxy color 48.7012, 0.2273, 0.2502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

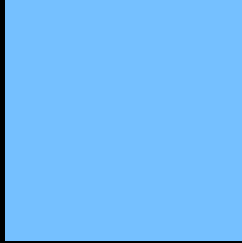
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.7012, 0.2273, 0.2502 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

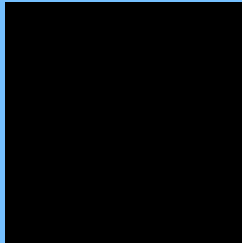
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

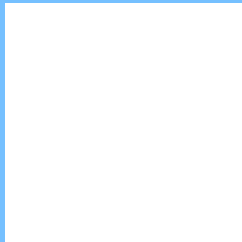
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.7012, 0.2273, 0.2502**

## Background



This preview shows how black text looks on a background with the Yxy color 48.7012, 0.2273, 0.2502.



This preview shows how white text looks on a background with the Yxy color 48.7012, 0.2273, 0.2502.

# 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

48.7012, 0.2273, 0.2502

### Protanopia

48.2783, 0.2562, 0.2511

### Deuteranopia

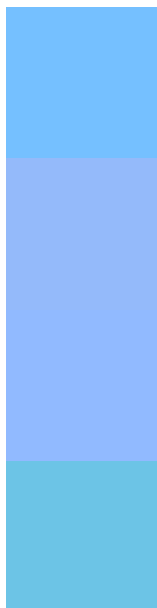
48.2530, 0.2486, 0.2424



## Tritanopia

48.6367, 0.2414, 0.3067

# Trichromacy



## Original Color

48.7012, 0.2273, 0.2502

## Protanomaly

48.3158, 0.2441, 0.2508

## Deuteranomaly

48.3576, 0.2399, 0.2454

## Tritanomaly

48.3812, 0.2356, 0.2835

# Monochromacy



## Original Color

48.7012, 0.2273, 0.2502

## Achromatopsia

43.9657, 0.3127, 0.3290

## Achromatomaly

44.8322, 0.2745, 0.2982

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.7012, 0.2273, 0.2502 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, 192, 255)` looks like.

```
.text, #text, p{  
    color:rgb(117, 192, 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(117, 192, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 192, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.7012, 0.2273, 0.2502 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, 192, 255) }
```

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

```
.border{ border-color:rgb(117, 192, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 192, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 192, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 192, 255);  
box-shadow:4px 4px 4px 4px rgb(117, 192,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.7012, 0.2273, 0.2502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 192, 255) }
```

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

```
.background{ background-color: rgb(117,  
192, 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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