

# Converting Colors

$Y_{xy}(46.1597, 0.2122, 0.2464)$

Have a look what the booklet for  
Yxy(46.1597, 0.2122, 0.2464)  
contains.

<b>Yxy(46.0181, 0.2120, 0.2460)</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(46.0181, 0.2120, 0.2460)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4CBFFF
RGB	76, 191, 255
RGB Percent	30%, 75%, 100%
CMY	0.7020, 0.2510, 0.0000
CMYK	0.70, 0.25, 0.00, 0.00
HSL	201°, 100%, 65%
HSV	201°, 70%, 100%
XYZ	39.6579, 46.0181, 101.3895
YIQ	163.9110, -89.0840, -4.4760

# Conversions

## Conversions Part 2

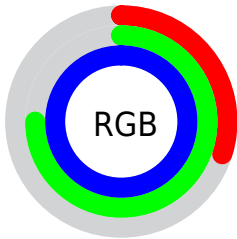
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	76, 146, 255
Decimal	5029887
CIE <sub>Lab</sub>	73.56, -12.40, -40.89
CIE <sub>LCh</sub>	74, 42.732, 253.132
Yxy	46.0181, 0.2120, 0.2460
Android (android.graphics.Color)	4283219967 (0xFF4CBFFF)
YUV	163.9110, 44.9069, -77.0979
Hunter-Lab	67.8366, -14.3615, -41.1299

# Details

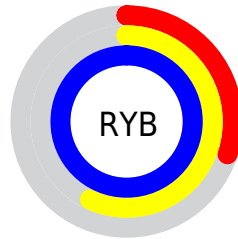
The Yxy color **46.0181, 0.2120, 0.2460** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **40.5246, 0.4974, 0.3883**, and the grayscale version is **36.8926, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6708, 0.2521, 0.3198**, and **22.2542, 0.1963, 0.2265** is the 20% darker color. If you saturate the color by 10%, you get **41.3219, 0.2027, 0.2320**, and if you desaturate by 10%, it is **51.3784, 0.2233, 0.2599**.

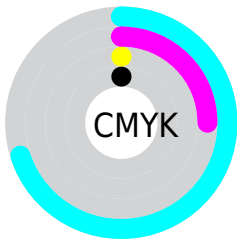
# Distribution



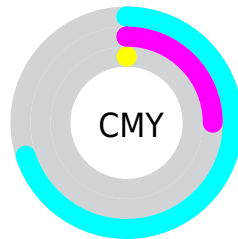
- Red (30%)
- Green (75%)
- Blue (100%)



- Red (30%)
- Yellow (57%)
- Blue (100%)



- Cyan (70%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)




- Cyan (70%)
- Magenta (25%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.0181, 0.2120, 0.2460 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 46.0181, 0.2120, 0.2460 by changing the saturation by 10% instead.





 46.0181, 0.2120,  
0.2460


 46.0181, 0.2120,  
0.2460


370.8814, 0.2598,  
0.2869

 32.2601, 0.2011,  
0.2362


 84.2461, 0.2287,  
0.2606


 21.5602, 0.1876,  
0.2241


 109.4849, 0.2351,  
0.2661

 13.5341, 0.1708,  
0.2085


 139.3194, 0.2407,  
0.2709

 7.7974, 0.1495,  
0.1882

 174.1340, 0.2455,  
0.2750

 3.9656, 0.1219,  
0.1609

214.3131, 0.2498,  
0.2785

 1.6543, 0.0866,  
0.1238

260.2411, 0.2535,

 0.3938, 0.0117,

0.2817

0.0644

312.3024, 0.2568,  
0.2844

■ 0.0000, 0.0000,  
0.0000

■ 46.0181, 0.2120,  
0.2460

■ 46.0181, 0.2120,  
0.2460

■ 41.3219, 0.2027,  
0.2320

■ 51.3784, 0.2233,  
0.2599

■ 37.2283, 0.1955,  
0.2182

■ 57.4459, 0.2363,  
0.2733

■ 33.7165, 0.1903,  
0.2050

■ 64.2647, 0.2505,  
0.2862

■ 71.8731, 0.2656,  
0.2983

■ 80.3061, 0.2812,  
0.3094

■ 89.5964, 0.2969,  
0.3196

99.7747, 0.3124,  
0.3288

99.9993, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.0181, 0.2068, 0.2802



46.0181, 0.2120, 0.2460



46.0181, 0.2408, 0.2352

# Triad

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



46.0181, 0.2120, 0.2460



46.0181, 0.4053, 0.3136



46.0181, 0.3258, 0.4340

# Complementary

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



46.0181, 0.2120, 0.2460



40.5246, 0.4974, 0.3883

# 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.



46.0181, 0.3820, 0.4338



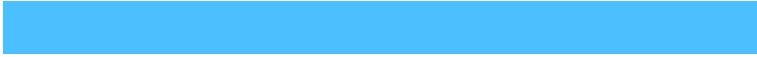
46.0181, 0.2120, 0.2460



46.0181, 0.4316, 0.3597

# Square

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



46.0181, 0.2120, 0.2460



46.0181, 0.3514, 0.2733



46.0181, 0.4218, 0.4036



46.0181, 0.2689, 0.3958



# Rectangle

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



46.0181, 0.2120, 0.2460



46.0181, 0.2720, 0.2399



46.0181, 0.4218, 0.4036



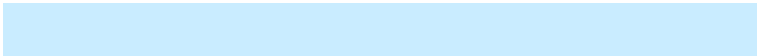
46.0181, 0.3454, 0.4382

# Sweetspot

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



46.0197, 0.2120, 0.2460



79.6103, 0.2799, 0.3086



74.9019, 0.2803, 0.4841



16.5274, 0.2756, 0.3056



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.



46.0197, 0.2120, 0.2460



39.7035, 0.1997, 0.2268



18.4221, 0.1833, 0.1306



19.3250, 0.2980, 0.3203



17.9119, 0.1909, 0.2072



1.9507, 0.1952, 0.2227



# Inverse Universe

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



30.1860, 0.3921, 0.2224



26.0641, 0.4144, 0.2156



77.3419, 0.4243, 0.4667



18.1837, 0.3193, 0.3138



12.5362, 0.4372, 0.2182

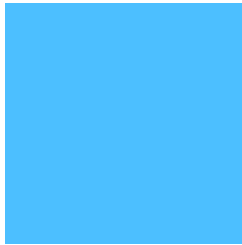


1.2415, 0.4204, 0.2089



# Previews

## White Background



This preview shows how the Yxy color 46.0181, 0.2120, 0.2460 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

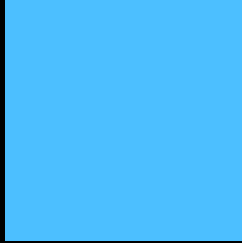
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.0181, 0.2120, 0.2460 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

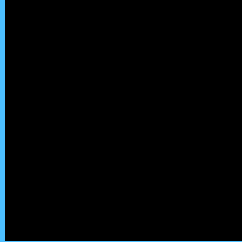
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

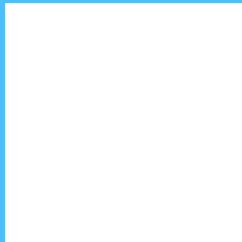
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.0181, 0.2120, 0.2460**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.0181, 0.2120, 0.2460.



This preview shows how white text looks on a background with the Yxy color 46.0181, 0.2120, 0.2460.

# 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

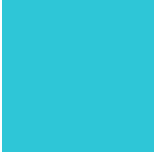
46.0181, 0.2120, 0.2460

### Protanopia

45.4495, 0.2531, 0.2471

### Deuteranopia

45.5448, 0.2411, 0.2359



## **Tritanopia**

45.8753, 0.2227, 0.3041

# Trichromacy



**Original Color**

46.0181, 0.2120, 0.2460

**Protanomaly**

44.9003, 0.2337, 0.2456

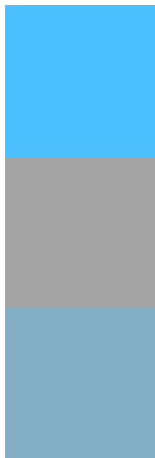
**Deuteranomaly**

45.2979, 0.2277, 0.2390

**Tritanomaly**

45.6132, 0.2178, 0.2800

# Monochromacy



**Original Color**

46.0181, 0.2120, 0.2460

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

39.2089, 0.2621, 0.2959

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.0181, 0.2120, 0.2460 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(76, 191, 255)` looks like.

```
.text, #text, p{  
    color:rgb(76, 191, 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(76, 191, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 191, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.0181, 0.2120, 0.2460 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(76, 191, 255) }
```

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

```
.border{ border-color:rgb(76, 191, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 191, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 191, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 191, 255);  
box-shadow:4px 4px 4px 4px rgb(76, 191,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.0181, 0.2120, 0.2460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 191, 255) }
```

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

```
.background{ background-color: rgb(76, 191,  
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](#).

# Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor