

# Converting Colors

$Y_{xy}(46.1940, 0.2216, 0.2511)$

Have a look what the booklet for  
Yxy(46.1940, 0.2216, 0.2511)  
contains.

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# Color

**Yxy(46.0066, 0.2214, 0.2502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64BDFA
RGB	100, 189, 250
RGB Percent	39%, 74%, 98%
CMY	0.6076, 0.2588, 0.0197
CMYK	0.60, 0.24, 0.00, 0.02
HSL	204°, 94%, 69%
HSV	204°, 60%, 98%
XYZ	40.7109, 46.0066, 97.1618
YIQ	169.3430, -72.6250, 0.1030

# Conversions

## Conversions Part 2

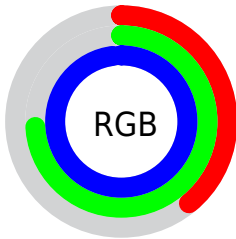
Format	Color
<a href="#">RYB</a>	<a href="#">100, 156, 250</a>
Decimal	<a href="#">6602234</a>
<a href="#">CIELab</a>	<a href="#">73.55, -9.09, -38.15</a>
<a href="#">CIELCh</a>	<a href="#">74, 39.221, 256.600</a>
<a href="#">Yxy</a>	<a href="#">46.0066, 0.2214, 0.2502</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4284792314 (0xFF64BDFA)</a>
<a href="#">YUV</a>	<a href="#">169.3430, 39.7639, -60.8138</a>
<a href="#">Hunter-Lab</a>	<a href="#">67.8282, -11.5625, -37.4514</a>

# Details

The Yxy color **46.0066, 0.2214, 0.2502** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **46.7498, 0.4560, 0.3914**, and the grayscale version is **39.6892, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.1019, 0.2594, 0.3177**, and **21.5872, 0.1989, 0.2299** is the 20% darker color. If you saturate the color by 10%, you get **40.5711, 0.2093, 0.2343**, and if you desaturate by 10%, it is **52.1894, 0.2351, 0.2657**.

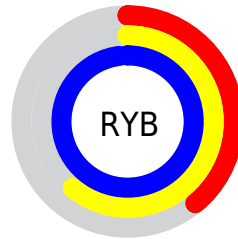
# Distribution



Red (39%)

Green (74%)

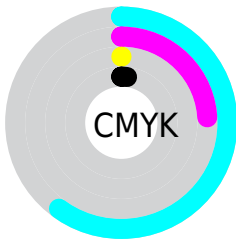
Blue (98%)



Red (39%)

Yellow (61%)

Blue (98%)

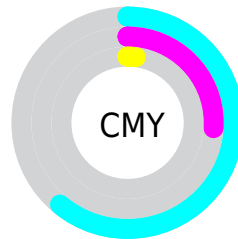


Cyan (60%)

Magenta (24%)

Yellow (0%)

Black (2%)



Cyan (61%)

Magenta (26%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.0066, 0.2214, 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 46.0066, 0.2214, 0.2502 by changing the saturation by 10% instead.



46.0066, 0.2214,  
0.2502

46.0066, 0.2214,  
0.2502

370.8352, 0.2651,  
0.2890

32.2510, 0.2113,  
0.2409

84.2289, 0.2367,  
0.2640

21.5533, 0.1987,  
0.2293

109.4644, 0.2427,  
0.2693

13.5291, 0.1830,  
0.2145

139.2953, 0.2477,  
0.2738

7.7939, 0.1626,  
0.1949

174.1060, 0.2521,  
0.2777

3.9633, 0.1358,  
0.1685

214.2810, 0.2560,  
0.2811

1.6531, 0.1003,  
0.1318

260.2046, 0.2594,

0.3930, 0.0271,

0.2840

0.0702

312.2612, 0.2624,  
0.2866

0.0000, 0.0000,  
0.0000

46.0066, 0.2214,  
0.2502

46.0066, 0.2214,  
0.2502

40.5711, 0.2093,  
0.2343

52.1894, 0.2351,  
0.2657

35.8302, 0.1992,  
0.2183

59.1569, 0.2499,  
0.2804

31.7299, 0.1913,  
0.2025

66.9489, 0.2655,  
0.2942

28.1822, 0.1854,  
0.1873

75.6009, 0.2814,  
0.3070

28.1724, 0.1854,  
0.1872

85.1457, 0.2972,  
0.3186

95.6141, 0.3128,  
0.3290

99.6810, 0.3156,  
0.3338

# Harmonies

## Analogous

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



46.0066, 0.2140, 0.2797



46.0066, 0.2214, 0.2502



46.0066, 0.2508, 0.2422

# Triad

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



46.0066, 0.2214, 0.2502



46.0066, 0.4020, 0.3200



46.0066, 0.3189, 0.4224

# Complementary

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



46.0066, 0.2214, 0.2502



46.7498, 0.4560, 0.3914

# 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.



46.0066, 0.3716, 0.4271



46.0066, 0.2214, 0.2502



46.0066, 0.4226, 0.3631

# Square

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



46.0066, 0.2214, 0.2502



46.0066, 0.3549, 0.2814



46.0066, 0.4103, 0.4026



46.0066, 0.2672, 0.3841



# Rectangle

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



46.0066, 0.2214, 0.2502



46.0066, 0.2811, 0.2479



46.0066, 0.4103, 0.4026



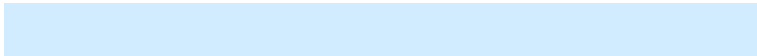
46.0066, 0.3371, 0.4279

# Sweetspot

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



46.0082, 0.2214, 0.2502



80.9700, 0.2845, 0.3093



73.6127, 0.2784, 0.4476



16.7349, 0.2799, 0.3058



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.



46.0082, 0.2214, 0.2502



41.3437, 0.2070, 0.2309



21.8887, 0.1994, 0.1523



18.3551, 0.2980, 0.3191



15.2358, 0.1860, 0.1897



1.6193, 0.1911, 0.2080



# Inverse Universe

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



33.1218, 0.3852, 0.2400



29.1256, 0.4073, 0.2291



80.6537, 0.4059, 0.4584



17.3981, 0.3201, 0.3150



11.9490, 0.4571, 0.2292

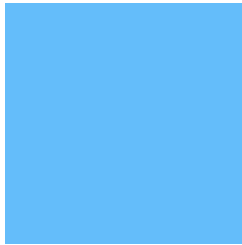


1.1277, 0.4363, 0.2177



# Previews

## White Background



This preview shows how the Yxy color 46.0066, 0.2214, 0.2502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

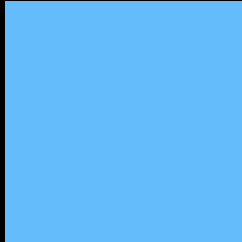
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.0066, 0.2214, 0.2502 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

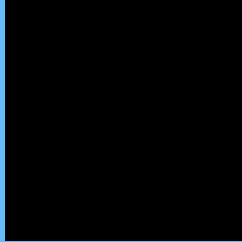
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

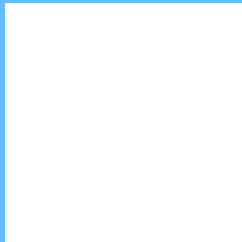
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.0066, 0.2214, 0.2502**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.0066, 0.2214, 0.2502.

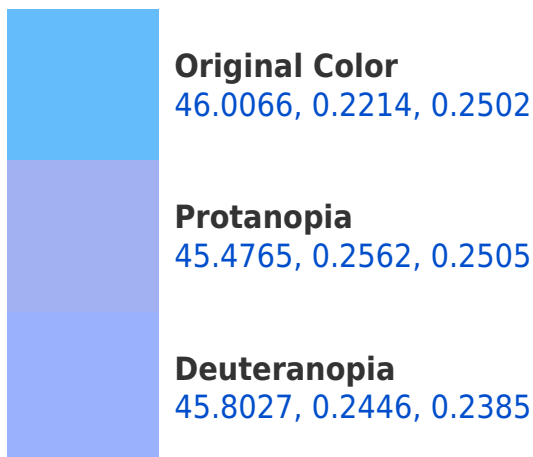


This preview shows how white text looks on a background with the Yxy color 46.0066, 0.2214, 0.2502.

# 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





## Tritanopia

46.0723, 0.2337, 0.3059

# Trichromacy



**Original Color**

46.0066, 0.2214, 0.2502

**Protanomaly**

45.0684, 0.2409, 0.2496

**Deuteranomaly**

45.5525, 0.2344, 0.2420

**Tritanomaly**

45.7548, 0.2286, 0.2833

# Monochromacy



**Original Color**

46.0066, 0.2214, 0.2502

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

41.0572, 0.2704, 0.2982

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.0066, 0.2214, 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(100, 189, 250)` looks like.

```
.text, #text, p{  
    color:rgb(100, 189, 250)  
}
```

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(100, 189, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 189, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 46.0066, 0.2214, 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(100, 189, 250) }
```

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

```
.border{ border-color:rgb(100, 189, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 189, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 189, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 189, 250);  
box-shadow:4px 4px 4px 4px rgb(100, 189,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.0066, 0.2214, 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(100, 189, 250) }
```

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

```
.background{ background-color: rgb(100,  
189, 250) }
```

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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