

Converting Colors

$Y_{xy}(50.4902, 0.2096, 0.2613)$

Have a look what the booklet for
Yxy(50.4902, 0.2096, 0.2613)
contains.

Yxy(50.4898, 0.2096, 0.2613)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(50.4898, 0.2096, 0.2613)

Conversions

Conversions Part 1

Format	Color
Hex	2DCBFF
RGB	45, 203, 255
RGB Percent	18%, 80%, 100%
CMY	0.8223, 0.2040, 0.0000
CMYK	0.82, 0.20, 0.00, 0.00
HSL	195°, 100%, 59%
HSV	195°, 82%, 100%
XYZ	40.5000, 50.4898, 102.2356
YIQ	161.6860, -110.8600, -17.3240

Conversions

Conversions Part 2

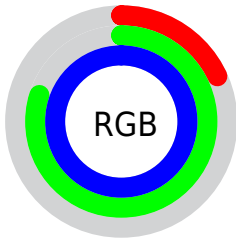
Format	Color
R _Y B	45, 135, 255
Decimal	3001343
CIE Lab	76.37, -21.89, -36.59
CIE LCh	76, 42.637, 239.105
Yxy	50.4898, 0.2096, 0.2613
Android (android.graphics.Color)	4281191423 (0xFF2DCBFF)
YUV	161.6860, 46.0038, -102.3336
Hunter-Lab	71.0562, -22.6083, -35.5671

Details

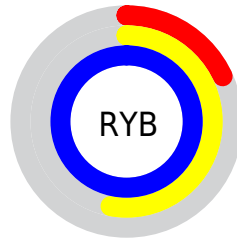
The Yxy color **50.4898, 0.2096, 0.2613** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **30.0604, 0.5614, 0.3667**, and the grayscale version is **35.8376, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1756, 0.2467, 0.3288**, and **25.5721, 0.2018, 0.2464** is the 20% darker color. If you saturate the color by 10%, you get **47.1454, 0.2043, 0.2520**, and if you desaturate by 10%, it is **54.3061, 0.2169, 0.2707**.

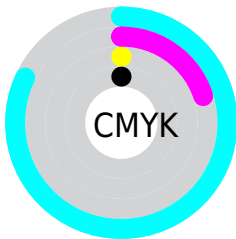
Distribution



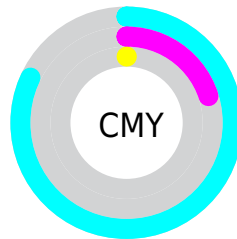
- Red (18%)
- Green (80%)
- Blue (100%)



- Red (18%)
- Yellow (53%)
- Blue (100%)



- Cyan (82%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)





- Cyan (82%)
- Magenta (20%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 50.4898, 0.2096, 0.2613 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 50.4898, 0.2096, 0.2613 by changing the saturation by 10% instead.


 50.4898, 0.2096,
0.2613

 50.4898, 0.2096,
0.2613


388.5783, 0.2577,
0.2951

 35.8027, 0.1987,
0.2531

 90.9002, 0.2262,
0.2735

 24.2819, 0.1855,
0.2428


 117.3923, 0.2327,
0.2781

 15.5429, 0.1690,
0.2295

 148.5881, 0.2383,
0.2820

 9.2013, 0.1482,
0.2118

 184.8722, 0.2432,
0.2854

 4.8727, 0.1216,
0.1876

226.6289, 0.2475,
0.2883

 2.1728, 0.0875,
0.1536

274.2425, 0.2513,

 0.7051, 0.0205,

0.2909

0.1065

328.0975, 0.2547,
0.2931

■ 0.0000, 0.0000,
0.0000

■ 50.4898, 0.2096,
0.2613

■ 50.4898, 0.2096,
0.2613

■ 47.1454, 0.2043,
0.2520

■ 54.3061, 0.2169,
0.2707

■ 44.8088, 0.2014,
0.2449

■ 58.6491, 0.2262,
0.2800

■ 63.5656, 0.2372,
0.2891

■ 69.0961, 0.2499,
0.2979

■ 75.2769, 0.2637,
0.3062

■ 82.1408, 0.2785,
0.3140

■ 89.7184, 0.2938,
0.3211

■ 98.0381, 0.3093,
0.3276

■ 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.



50.4898, 0.2158, 0.3049



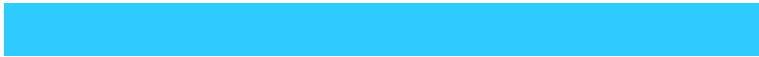
50.4898, 0.2096, 0.2613



50.4898, 0.2271, 0.2402

Triad

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



50.4898, 0.2096, 0.2613



50.4898, 0.3802, 0.2948



50.4898, 0.3521, 0.4350

Complementary

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



50.4898, 0.2096, 0.2613



30.0604, 0.5614, 0.3667

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.



50.4898, 0.4009, 0.4197



50.4898, 0.2096, 0.2613



50.4898, 0.4200, 0.3379

Square

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



50.4898, 0.2096, 0.2613



50.4898, 0.3222, 0.2604



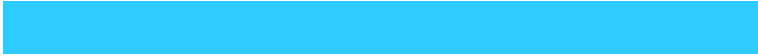
50.4898, 0.4270, 0.3826



50.4898, 0.2953, 0.4149

Rectangle

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



50.4898, 0.2096, 0.2613



50.4898, 0.2512, 0.2383



50.4898, 0.4270, 0.3826



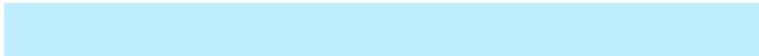
50.4898, 0.3700, 0.4333

Sweetspot

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



50.4902, 0.2096, 0.2613



80.1714, 0.2743, 0.3119



72.8972, 0.2892, 0.5422



16.6414, 0.2691, 0.3092



0.0000, 0.0000, 0.0000



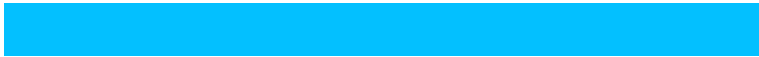
21.4041, 0.3127, 0.3290

Same Dimension

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



50.4902, 0.2096, 0.2613



45.1032, 0.2017, 0.2458



17.1358, 0.1731, 0.1245



19.6733, 0.2980, 0.3230



23.6620, 0.2018, 0.2464



2.4761, 0.2047, 0.2570

Inverse Universe

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



27.4713, 0.3799, 0.1970



25.1380, 0.3964, 0.1960



62.3362, 0.4579, 0.4591



18.2188, 0.3176, 0.3113



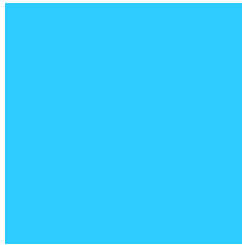
13.1167, 0.3958, 0.1954



1.2945, 0.3854, 0.1897

Previews

White Background



This preview shows how the Yxy color 50.4898, 0.2096, 0.2613 looks on a white background.

Color Contrast Check

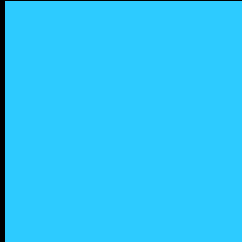
Large Text (above 18pt) WCAG AA × Fail

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 50.4898, 0.2096, 0.2613 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

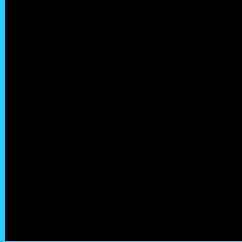
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

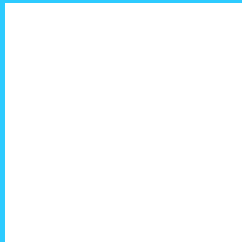
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 50.4898, 0.2096, 0.2613

Background



This preview shows how black text looks on a background with the Yxy color 50.4898, 0.2096, 0.2613.



This preview shows how white text looks on a background with the Yxy color 50.4898, 0.2096, 0.2613.

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

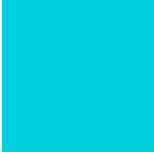
50.4898, 0.2096, 0.2613

Protanopia

49.8195, 0.2641, 0.2619

Deuteranopia

49.9173, 0.2516, 0.2466



Tritanopia

50.4936, 0.2184, 0.3063

Trichromacy



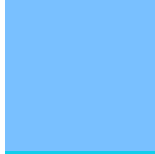
Original Color

50.4898, 0.2096, 0.2613



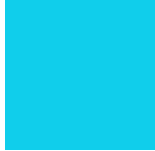
Protanomaly

48.7887, 0.2356, 0.2607



Deuteranomaly

48.9842, 0.2291, 0.2506



Tritanomaly

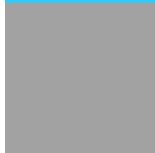
50.2509, 0.2144, 0.2890

Monochromacy



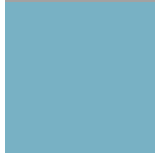
Original Color

50.4898, 0.2096, 0.2613



Achromatopsia

36.1307, 0.3127, 0.3290



Achromatomaly

39.4229, 0.2553, 0.3011

CSS Examples

Text

The CSS property to change the color of the text to Yxy 50.4898, 0.2096, 0.2613 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(45, 203, 255)` looks like.

```
.text, #text, p{  
    color:rgb(45, 203, 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(45, 203, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 203, 255) }
```

Border

The CSS property to change the border of an element to Yxy 50.4898, 0.2096, 0.2613 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(45, 203, 255) }
```

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

```
.border{ border-color:rgb(45, 203, 255) }
```

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

Here you see how a box with a 4 pixel rgb(45, 203, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 203, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 203, 255);  
box-shadow:4px 4px 4px 4px rgb(45, 203,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 50.4898, 0.2096, 0.2613 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 203, 255) }
```

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

```
.background{ background-color: rgb(45, 203,  
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