

Converting Colors

$Y_{xy}(46.7822, 0.2075, 0.2499)$

Have a look what the booklet for
Yxy(46.7822, 0.2075, 0.2499)
contains.

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Color

Yxy(46.9540, 0.2076, 0.2504)

Conversions

Conversions Part 1

Format	Color
Hex	33C3FF
RGB	51, 195, 255
RGB Percent	20%, 76%, 100%
CMY	0.8004, 0.2353, 0.0000
CMYK	0.80, 0.24, 0.00, 0.00
HSL	198°, 100%, 60%
HSV	198°, 80%, 100%
XYZ	38.9283, 46.9540, 101.6337
YIQ	158.7840, -105.0840, -11.8680

Conversions

Conversions Part 2

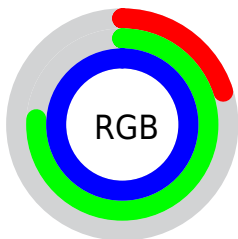
Format	Color
R _{YB}	51, 135, 255
Decimal	3392511
CIE Lab	74.16, -17.30, -40.01
CIE LCh	74, 43.592, 246.612
Yxy	46.9540, 0.2076, 0.2504
Android (android.graphics.Color)	4281582591 (0xFF33C3FF)
YUV	158.7840, 47.4345, -94.5266
Hunter-Lab	68.5230, -18.5083, -39.9731

Details

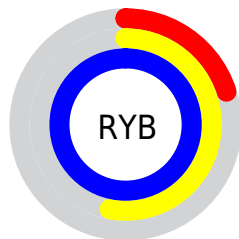
The Yxy color **46.9540, 0.2076, 0.2504** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **32.8449, 0.5441, 0.3762**, and the grayscale version is **34.3707, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.5079, 0.2472, 0.3254**, and **23.1270, 0.1978, 0.2320** is the 20% darker color. If you saturate the color by 10%, you get **43.1896, 0.2013, 0.2392**, and if you desaturate by 10%, it is **51.2502, 0.2160, 0.2617**.

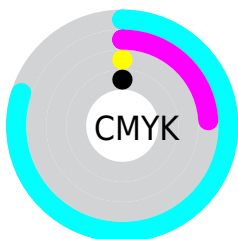
Distribution



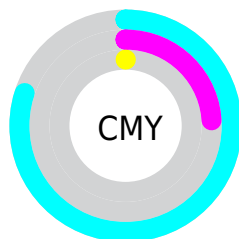
- Red (20%)
- Green (76%)
- Blue (100%)



- Red (20%)
- Yellow (53%)
- Blue (100%)



- Cyan (80%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (24%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.9540, 0.2076, 0.2504 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 46.9540, 0.2076, 0.2504 by changing the saturation by 10% instead.


 46.9540, 0.2076,
0.2504


 46.9540, 0.2076,
0.2504


374.6309, 0.2572,
0.2895

 32.9993, 0.1963,
0.2410


 85.6450, 0.2248,
0.2644

 22.1259, 0.1826,
0.2292

 111.1500, 0.2315,
0.2697

 13.9494, 0.1654,
0.2141


 141.2739, 0.2373,
0.2742

 8.0855, 0.1438,
0.1943

 176.4012, 0.2423,
0.2781

 4.1497, 0.1161,
0.1675

216.9161, 0.2467,
0.2815

 1.7577, 0.0809,
0.1307

263.2031, 0.2506,

 0.4606, 0.0025,

0.2845

0.0747

315.6465, 0.2541,
0.2871

■ 0.0000, 0.0000,
0.0000

■ 46.9540, 0.2076,
0.2504

■ 46.9540, 0.2076,
0.2504

■ 43.1896, 0.2013,
0.2392

■ 51.2502, 0.2160,
0.2617

■ 39.8799, 0.1967,
0.2282

■ 56.1313, 0.2264,
0.2729

■ 61.6437, 0.2385,
0.2838

■ 67.8277, 0.2520,
0.2942

■ 74.7196, 0.2665,
0.3040

■ 82.3527, 0.2816,
0.3131

■ 90.7580, 0.2971,
0.3214

99.9641, 0.3127,
0.3290

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.



46.9540, 0.2077, 0.2900



46.9540, 0.2076, 0.2504



46.9540, 0.2317, 0.2345

Triad

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



46.9540, 0.2076, 0.2504



46.9540, 0.3964, 0.3038



46.9540, 0.3389, 0.4388

Complementary

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



46.9540, 0.2076, 0.2504



32.8449, 0.5441, 0.3762

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.



46.9540, 0.3935, 0.4305



46.9540, 0.2076, 0.2504



46.9540, 0.4305, 0.3497

Square

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



46.9540, 0.2076, 0.2504



46.9540, 0.3383, 0.2653



46.9540, 0.4283, 0.3954



46.9540, 0.2800, 0.4081

Rectangle

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



46.9540, 0.2076, 0.2504



46.9540, 0.2602, 0.2363



46.9540, 0.4283, 0.3954



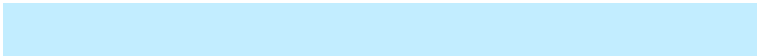
46.9540, 0.3583, 0.4401

Sweetspot

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



46.9544, 0.2076, 0.2504



79.2372, 0.2756, 0.3096



73.3197, 0.2855, 0.5251



16.3823, 0.2702, 0.3063



0.0000, 0.0000, 0.0000



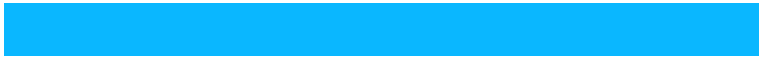
21.4041, 0.3127, 0.3290

Same Dimension

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



46.9544, 0.2076, 0.2504



41.1698, 0.1984, 0.2326



16.1284, 0.1727, 0.1185



19.5265, 0.2980, 0.3218



21.1095, 0.1972, 0.2300



2.2449, 0.2008, 0.2427

Inverse Universe

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



27.5598, 0.3900, 0.2056



24.9020, 0.4097, 0.2044



67.9772, 0.4461, 0.4660



18.2040, 0.3183, 0.3124



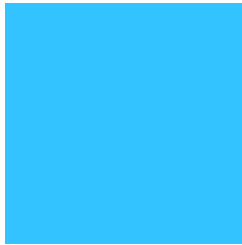
12.8590, 0.4126, 0.2047



1.2712, 0.3996, 0.1975

Previews

White Background



This preview shows how the Yxy color 46.9540, 0.2076, 0.2504 looks on a white background.

Color Contrast Check

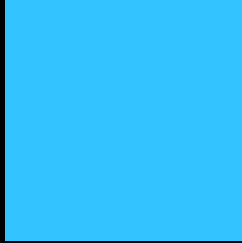
Large Text (above 18pt) WCAG AA × Fail

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 46.9540, 0.2076, 0.2504 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

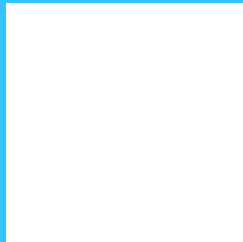
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 46.9540, 0.2076, 0.2504

Background



This preview shows how black text looks on a background with the Yxy color 46.9540, 0.2076, 0.2504.

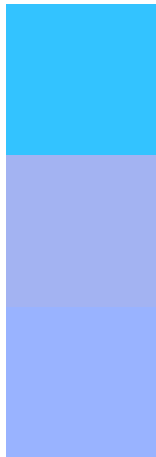


This preview shows how white text looks on a background with the Yxy color 46.9540, 0.2076, 0.2504.

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

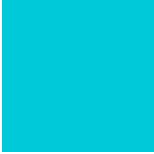
46.9540, 0.2076, 0.2504

Protanopia

46.4375, 0.2566, 0.2522

Deuteranopia

46.2325, 0.2431, 0.2376



Tritanopia

46.7830, 0.2182, 0.3056

Trichromacy



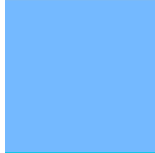
Original Color

46.9540, 0.2076, 0.2504



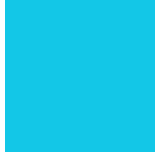
Protanomaly

45.5509, 0.2313, 0.2499



Deuteranomaly

45.6309, 0.2249, 0.2409



Tritanomaly

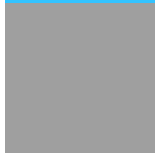
46.7548, 0.2133, 0.2840

Monochromacy



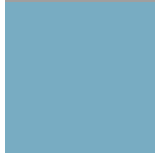
Original Color

46.9540, 0.2076, 0.2504



Achromatopsia

34.6704, 0.3127, 0.3290



Achromatomaly

37.3932, 0.2555, 0.2963

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.9540, 0.2076, 0.2504 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(51, 195, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 195, 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(51, 195, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 195, 255) }
```

Border

The CSS property to change the border of an element to Yxy 46.9540, 0.2076, 0.2504 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(51, 195, 255) }
```

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

```
.border{ border-color:rgb(51, 195, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 195, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 195, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 195, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 195,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 46.9540, 0.2076, 0.2504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 195, 255) }
```

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

```
.background{ background-color: rgb(51, 195,  
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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