

# Converting Colors

$Y_{xy}(45.7540, 0.2153, 0.2646)$

Have a look what the booklet for  
Yxy(45.7540, 0.2153, 0.2646)  
contains.

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# Color

**Yxy(45.6491, 0.2151, 0.2640)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42C1F1
RGB	66, 193, 241
RGB Percent	26%, 76%, 95%
CMY	0.7412, 0.2431, 0.0549
CMYK	0.73, 0.20, 0.00, 0.05
HSL	196°, 86%, 60%
HSV	196°, 73%, 95%
XYZ	37.1936, 45.6491, 90.0705
YIQ	160.4990, -91.1000, -11.9960

# Conversions

## Conversions Part 2

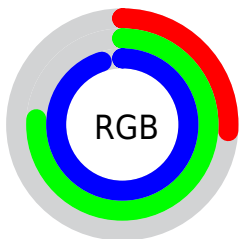
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	66, 140, 241
Decimal	4375025
CIE Lab	73.32, -19.27, -33.75
CIE LCh	73, 38.864, 240.276
Yxy	45.6491, 0.2151, 0.2640
Android (android.graphics.Color)	4282565105 (0xFF42C1F1)
YUV	160.4990, 39.6870, -82.8756
Hunter-Lab	67.5641, -19.9740, -31.7453

# Details

The Yxy color **45.6491, 0.2151, 0.2640** 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 **31.1299, 0.5196, 0.3738**, and the grayscale version is **35.2422, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.7421, 0.2490, 0.3231**, and **21.9680, 0.2018, 0.2464** is the 20% darker color. If you saturate the color by 10%, you get **42.1248, 0.2075, 0.2536**, and if you desaturate by 10%, it is **49.6596, 0.2247, 0.2744**.

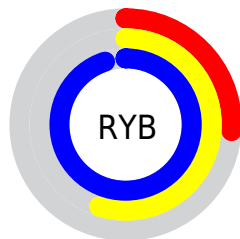
# Distribution



Red (26%)

Green (76%)

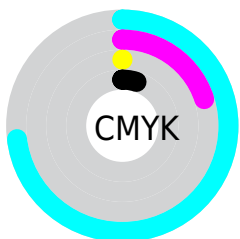
Blue (95%)



Red (26%)

Yellow (55%)

Blue (95%)

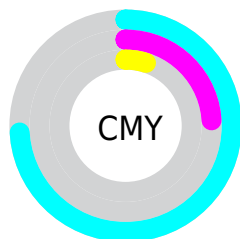


Cyan (73%)

Magenta (20%)

Yellow (0%)

Black (5%)



Cyan (74%)

Magenta (24%)


Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6491, 0.2151, 0.2640 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 45.6491, 0.2151, 0.2640 by changing the saturation by 10% instead.




 45.6491, 0.2151,  
0.2640

 45.6491, 0.2151,  
0.2640


369.3961, 0.2617,  
0.2970


 31.9690, 0.2043,  
0.2558


 83.6936, 0.2314,  
0.2760

 21.3378, 0.1910,  
0.2454


 108.8268, 0.2377,  
0.2805

 13.3712, 0.1742,  
0.2319


 138.5465, 0.2432,  
0.2843

 7.6846, 0.1526,  
0.2135

 173.2371, 0.2479,  
0.2876

 3.8938, 0.1244,  
0.1879

213.2829, 0.2520,  
0.2904

 1.6143, 0.0873,  
0.1509

259.0684, 0.2556,

 0.3672, 0.0000,

0.2929

0.0821

310.9780, 0.2588,  
0.2951

0.0000, 0.0000,  
0.0000

45.6491, 0.2151,  
0.2640

45.6491, 0.2151,  
0.2640

42.1248, 0.2075,  
0.2536

49.6596, 0.2247,  
0.2744

39.0325, 0.2019,  
0.2432


54.1925, 0.2361,  
0.2845

36.9717, 0.1988,  
0.2357


59.2853, 0.2490,  
0.2943

64.9700, 0.2630,  
0.3035

71.2758, 0.2779,  
0.3121

 78.2299, 0.2932,  
0.3200

 85.8573, 0.3087,  
0.3272

 93.4527, 0.3216,  
0.3338

 97.5434, 0.3210,  
0.3401

# Harmonies

## Analogous

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



45.6491, 0.2202, 0.3046



45.6491, 0.2151, 0.2640



45.6491, 0.2327, 0.2445

# Triad

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



45.6491, 0.2151, 0.2640



45.6491, 0.3782, 0.2982



45.6491, 0.3483, 0.4286

# Complementary

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



45.6491, 0.2151, 0.2640



31.1299, 0.5196, 0.3738

# 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.



45.6491, 0.3948, 0.4160



45.6491, 0.2151, 0.2640



45.6491, 0.4147, 0.3395

# Square

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



45.6491, 0.2151, 0.2640



45.6491, 0.3241, 0.2650



45.6491, 0.4202, 0.3819



45.6491, 0.2945, 0.4080



# Rectangle

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



45.6491, 0.2151, 0.2640



45.6491, 0.2562, 0.2431



45.6491, 0.4202, 0.3819



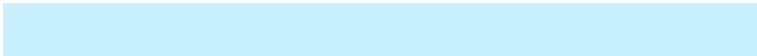
45.6491, 0.3653, 0.4277

# Sweetspot

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



45.6507, 0.2151, 0.2640



81.4408, 0.2787, 0.3126



65.2550, 0.2862, 0.5094



16.9967, 0.2746, 0.3103



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

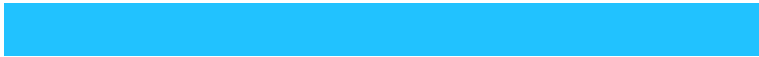


# Same Dimension

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



45.6507, 0.2151, 0.2640



46.1964, 0.2046, 0.2487



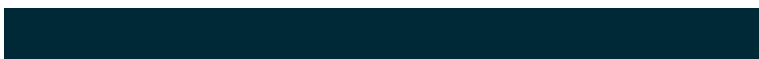
17.9909, 0.1842, 0.1419



17.1530, 0.2981, 0.3224



20.2853, 0.1993, 0.2374



1.8526, 0.2030, 0.2509



# Inverse Universe

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



26.4485, 0.3758, 0.2077



26.2579, 0.3926, 0.2000



60.4815, 0.4383, 0.4575



15.9531, 0.3180, 0.3120



11.8412, 0.4050, 0.2005

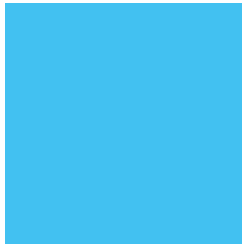


1.0017, 0.3914, 0.1930



# Previews

## White Background



This preview shows how the Yxy color 45.6491, 0.2151, 0.2640 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

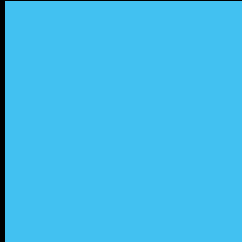
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6491, 0.2151, 0.2640 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

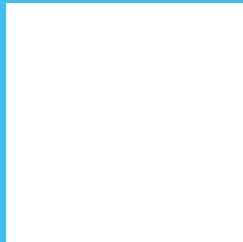
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.6491, 0.2151, 0.2640**

## Background



This preview shows how black text looks on a background with the Yxy color 45.6491, 0.2151, 0.2640.



This preview shows how white text looks on a background with the Yxy color 45.6491, 0.2151, 0.2640.

# 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

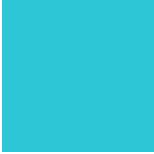
45.6491, 0.2151, 0.2640

### Protanopia

45.1008, 0.2655, 0.2639

### Deuteranopia

44.9123, 0.2511, 0.2446



## **Tritanopia**

45.7787, 0.2227, 0.3055

# Trichromacy



**Original Color**

45.6491, 0.2151, 0.2640

**Protanomaly**

44.4173, 0.2413, 0.2634

**Deuteranomaly**

44.3475, 0.2335, 0.2494

**Tritanomaly**

45.5917, 0.2195, 0.2891

# Monochromacy



**Original Color**

45.6491, 0.2151, 0.2640

**Achromatopsia**

35.6400, 0.3127, 0.3290

**Achromatomaly**

38.0405, 0.2623, 0.3038

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6491, 0.2151, 0.2640 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(66, 193, 241)` looks like.

```
.text, #text, p{  
    color:rgb(66, 193, 241)  
}
```

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(66, 193, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 193, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6491, 0.2151, 0.2640 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(66, 193, 241) }
```

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

```
.border{ border-color:rgb(66, 193, 241) }
```

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

Here you see how a box with a 4 pixel rgb(66, 193, 241) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 193, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 193, 241);  
box-shadow:4px 4px 4px 4px rgb(66, 193,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6491, 0.2151, 0.2640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 193, 241) }
```

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

```
.background{ background-color: rgb(66, 193,  
241) }
```

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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