

# Converting Colors

$Y_{xy}(45.7745, 0.2081, 0.2640)$

Have a look what the booklet for  
Yxy(45.7745, 0.2081, 0.2640)  
contains.

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# Color

**Yxy(45.6955, 0.2079, 0.2634)**

# Conversions

## Conversions Part 1

Format	Color
Hex	18C3F3
RGB	24, 195, 243
RGB Percent	9%, 76%, 95%
CMY	0.9065, 0.2353, 0.0470
CMYK	0.90, 0.20, 0.00, 0.05
HSL	193°, 90%, 52%
HSV	193°, 90%, 95%
XYZ	36.0672, 45.6955, 91.7206
YIQ	149.3430, -117.3240, -21.3240

# Conversions

## Conversions Part 2

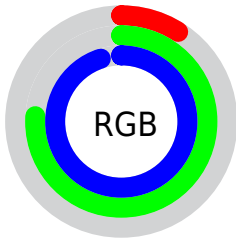
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	24, 120, 243
Decimal	1623027
CIE Lab	73.35, -23.13, -34.84
CIE LCh	73, 41.818, 236.418
Yxy	45.6955, 0.2079, 0.2634
Android (android.graphics.Color)	4279813107 (0xFF18C3F3)
YUV	149.3430, 46.1729, -109.9258
Hunter-Lab	67.5984, -23.0585, -33.1284

# Details

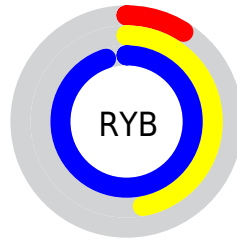
The Yxy color **45.6955, 0.2079, 0.2634** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **23.7366, 0.5927, 0.3568**, and the grayscale version is **30.0267, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.5538, 0.2426, 0.3253**, and **22.6376, 0.2020, 0.2473** is the 20% darker color. If you saturate the color by 10%, you get **43.2054, 0.2043, 0.2555**, and if you desaturate by 10%, it is **48.5647, 0.2132, 0.2715**.

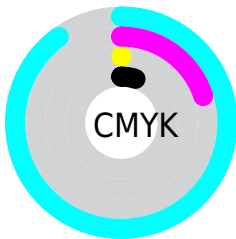
# Distribution



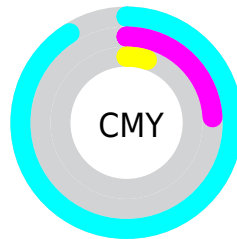
- Red (9%)
- Green (76%)
- Blue (95%)



- Red (9%)
- Yellow (47%)
- Blue (95%)



- Cyan (90%)
- Magenta (20%)
- Yellow (0%)
- Black (5%)




- Cyan (91%)
- Magenta (24%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6955, 0.2079, 0.2634 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 45.6955, 0.2079, 0.2634 by changing the saturation by 10% instead.





 45.6955, 0.2079,  
0.2634


 45.6955, 0.2079,  
0.2634


369.5831, 0.2577,  
0.2970

 32.0056, 0.1965,  
0.2550


 83.7631, 0.2253,  
0.2756


 21.3658, 0.1824,  
0.2444


 108.9096, 0.2320,  
0.2802

 13.3916, 0.1649,  
0.2305


 138.6437, 0.2378,  
0.2841

 7.6988, 0.1425,  
0.2118

 173.3499, 0.2428,  
0.2874

 3.9028, 0.1136,  
0.1856

 213.4126, 0.2472,  
0.2903

 1.6193, 0.0767,  
0.1479

259.2161, 0.2511,

 0.3706, 0.0000,

0.2928

0.0791

311.1448, 0.2546,  
0.2950

■ 0.0000, 0.0000,  
0.0000

■ 45.6955, 0.2079,  
0.2634

■ 45.6955, 0.2079,  
0.2634

■ 43.2054, 0.2043,  
0.2555

■ 48.5647, 0.2132,  
0.2715

■ 51.8416, 0.2205,  
0.2797

■ 55.5748, 0.2297,  
0.2878

■ 59.8039, 0.2408,  
0.2956

■ 64.5636, 0.2533,  
0.3032

■ 69.8850, 0.2671,  
0.3104

■ 75.7965, 0.2818,  
0.3171

■ 82.3246, 0.2970,  
0.3233

■ 89.4937, 0.3124,  
0.3289

# Harmonies

## Analogous

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



45.6955, 0.2163, 0.3094



45.6955, 0.2079, 0.2634



45.6955, 0.2235, 0.2400

# Triad

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



45.6955, 0.2079, 0.2634



45.6955, 0.3763, 0.2908



45.6955, 0.3575, 0.4364

# Complementary

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



45.6955, 0.2079, 0.2634



23.7366, 0.5927, 0.3568

# 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.



45.6955, 0.4055, 0.4181



45.6955, 0.2079, 0.2634



45.6955, 0.4191, 0.3338

# Square

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



45.6955, 0.2079, 0.2634



45.6955, 0.3169, 0.2571



45.6955, 0.4294, 0.3792



45.6955, 0.3000, 0.4196



# Rectangle

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



45.6955, 0.2079, 0.2634



45.6955, 0.2466, 0.2369



45.6955, 0.4294, 0.3792



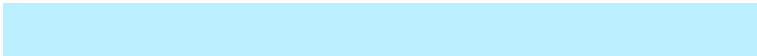
45.6955, 0.3754, 0.4336

# Sweetspot

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



45.6971, 0.2079, 0.2634



79.9510, 0.2716, 0.3126



64.7589, 0.2917, 0.5627



16.6472, 0.2667, 0.3102



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

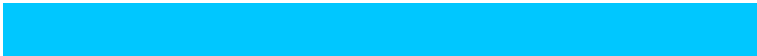


# Same Dimension

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



45.6971, 0.2079, 0.2634



48.1351, 0.2043, 0.2553



13.3098, 0.1663, 0.1114



18.1058, 0.2980, 0.3237



23.9181, 0.2047, 0.2568



2.2509, 0.2075, 0.2669



# Inverse Universe

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



23.6437, 0.3786, 0.1899



25.3904, 0.3870, 0.1905



52.1340, 0.4711, 0.4579



16.7025, 0.3172, 0.3107



12.5139, 0.3855, 0.1897

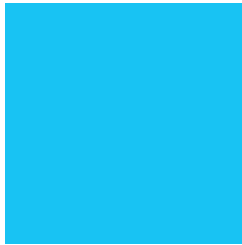


1.1149, 0.3758, 0.1844



# Previews

## White Background



This preview shows how the Yxy color 45.6955, 0.2079, 0.2634 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

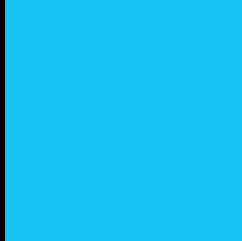
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6955, 0.2079, 0.2634 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

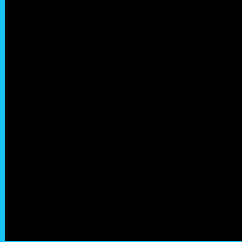
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.6955, 0.2079, 0.2634**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.6955, 0.2079, 0.2634.

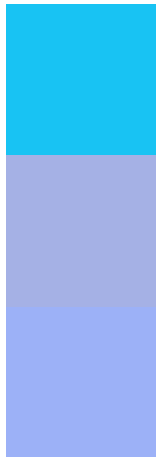


This preview shows how white text looks on a background with the Yxy color 45.6955, 0.2079, 0.2634.

# 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

45.6955, 0.2079, 0.2634

### Protanopia

45.1008, 0.2655, 0.2639

### Deuteranopia

45.2276, 0.2489, 0.2435



## Tritanopia

45.7019, 0.2186, 0.3068

# Trichromacy



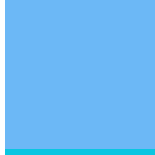
## Original Color

45.6955, 0.2079, 0.2634



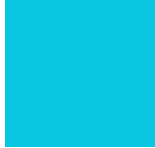
## Protanomaly

43.7989, 0.2332, 0.2623



## Deuteranomaly

44.1229, 0.2249, 0.2483



## Tritanomaly

45.8825, 0.2144, 0.2902

# Monochromacy



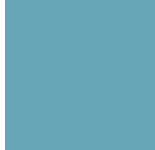
## Original Color

45.6955, 0.2079, 0.2634



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

33.5749, 0.2499, 0.3020

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.6955, 0.2079, 0.2634 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(24, 195, 243)` looks like.

```
.text, #text, p{  
  color:rgb(24, 195, 243)  
}
```

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(24, 195, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 195, 243) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6955, 0.2079, 0.2634 is called "border". The border property can be set on classes, ids or directly on the HTML element.

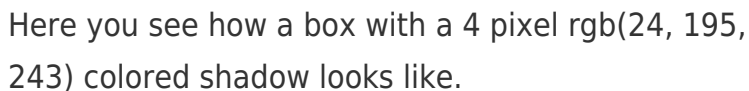
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(24, 195, 243) }
```

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

```
.border{ border-color:rgb(24, 195, 243) }
```

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



Here you see how a box with a 4 pixel `rgb(24, 195, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(24, 195, 243); -webkit-box-shadow:4px 4px 4px 4px rgb(24, 195, 243); box-shadow:4px 4px 4px 4px rgb(24, 195, 243) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6955, 0.2079, 0.2634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 195, 243) }
```

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

```
.background{ background-color: rgb(24, 195,  
243) }
```

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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