

# Converting Colors

$Yxy(45.9168, 0.2035, 0.2481)$

Have a look what the booklet for  
Yxy(45.9168, 0.2035, 0.2481)  
contains.

<b>Yxy(45.9857, 0.2036, 0.2483)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(45.9857, 0.2036, 0.2483)**

# Conversions

## Conversions Part 1

Format	Color
Hex	18C2FF
RGB	24, 194, 255
RGB Percent	9%, 76%, 100%
CMY	0.9073, 0.2393, 0.0000
CMYK	0.91, 0.24, 0.00, 0.00
HSL	196°, 100%, 55%
HSV	196°, 91%, 100%
XYZ	37.7072, 45.9857, 101.5093
YIQ	150.1240, -120.9010, -17.0690

# Conversions

## Conversions Part 2

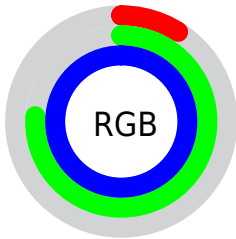
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	24, 122, 255
Decimal	1622783
CIE Lab	73.54, -18.54, -41.01
CIE LCh	74, 45.002, 245.673
Yxy	45.9857, 0.2036, 0.2483
Android (android.graphics.Color)	4279812863 (0xFF18C2FF)
YUV	150.1240, 51.7039, -110.6107
Hunter-Lab	67.8128, -19.4177, -41.2826

# Details

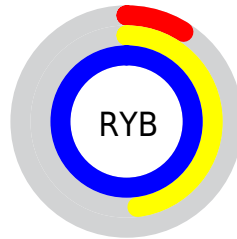
The Yxy color **45.9857, 0.2036, 0.2483** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **27.7654, 0.5853, 0.3642**, and the grayscale version is **30.3156, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.0659, 0.2430, 0.3242**, and **22.8334, 0.1973, 0.2302** is the 20% darker color. If you saturate the color by 10%, you get **43.0812, 0.1998, 0.2392**, and if you desaturate by 10%, it is **49.5138, 0.2094, 0.2583**.

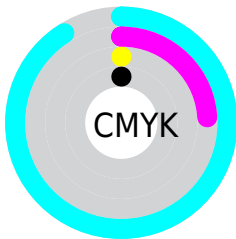
# Distribution



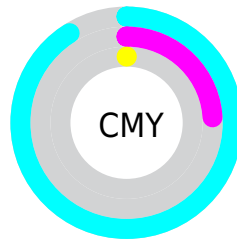
- Red (9%)
- Green (76%)
- Blue (100%)



- Red (9%)
- Yellow (48%)
- Blue (100%)



- Cyan (91%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)



- Cyan (91%)
- Magenta (24%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9857, 0.2036, 0.2483 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 45.9857, 0.2036, 0.2483 by changing the saturation by 10% instead.



45.9857, 0.2036,  
0.2483

45.9857, 0.2036,  
0.2483

370.7512, 0.2550,  
0.2886

32.2345, 0.1919,  
0.2386

84.1976, 0.2214,  
0.2627

21.5407, 0.1777,  
0.2264

109.4271, 0.2284,  
0.2682

13.5198, 0.1600,  
0.2108

139.2516, 0.2344,  
0.2729

7.7875, 0.1377,  
0.1903

174.0553, 0.2396,  
0.2769

3.9592, 0.1095,  
0.1627

214.2227, 0.2442,  
0.2804

1.6508, 0.0741,  
0.1250

260.1382, 0.2482,

0.3915, 0.0000,

0.2835

0.0646

312.1863, 0.2518,  
0.2862

■ 0.0000, 0.0000,  
0.0000

■ 45.9857, 0.2036,  
0.2483

■ 45.9857, 0.2036,  
0.2483

■ 43.0812, 0.1998,  
0.2392

■ 49.5138, 0.2094,  
0.2583

■ 53.5369, 0.2172,  
0.2683

■ 58.1099, 0.2270,  
0.2782

■ 63.2784, 0.2386,  
0.2879

■ 69.0826, 0.2516,  
0.2972

■ 75.5584, 0.2657,  
0.3060

■ 82.7386, 0.2807,  
0.3142

■ 90.6536, 0.2961,  
0.3217

■ 99.3319, 0.3116,  
0.3285

# Harmonies

## Analogous

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



45.9857, 0.2044, 0.2899



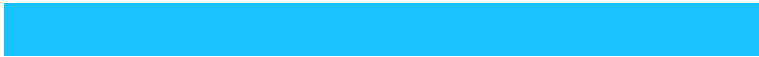
45.9857, 0.2036, 0.2483



45.9857, 0.2276, 0.2314

# Triad

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



45.9857, 0.2036, 0.2483



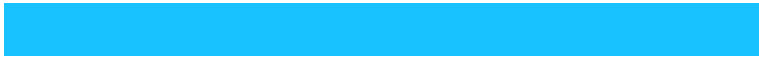
45.9857, 0.3981, 0.3013



45.9857, 0.3415, 0.4438

# Complementary

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



45.9857, 0.2036, 0.2483



27.7654, 0.5853, 0.3642

# 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.



45.9857, 0.3978, 0.4334



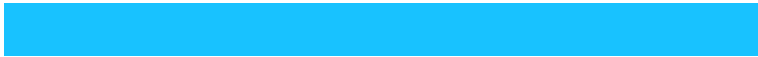
45.9857, 0.2036, 0.2483



45.9857, 0.4346, 0.3485

# Square

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



45.9857, 0.2036, 0.2483



45.9857, 0.3371, 0.2620



45.9857, 0.4333, 0.3960



45.9857, 0.2804, 0.4132



# Rectangle

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



45.9857, 0.2036, 0.2483



45.9857, 0.2566, 0.2329



45.9857, 0.4333, 0.3960



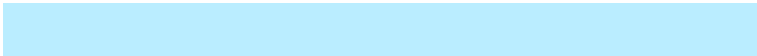
45.9857, 0.3616, 0.4445

# Sweetspot

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



45.9862, 0.2036, 0.2483



78.1556, 0.2713, 0.3091



72.3108, 0.2899, 0.5571



16.2194, 0.2662, 0.3063



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

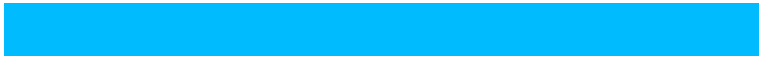


# Same Dimension

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



45.9862, 0.2036, 0.2483



43.0812, 0.1998, 0.2392



13.3647, 0.1635, 0.1022



19.6231, 0.2980, 0.3226



22.7679, 0.2002, 0.2409



2.3954, 0.2034, 0.2521



# Inverse Universe

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



25.7923, 0.3934, 0.1978



24.8802, 0.4031, 0.1994



61.3282, 0.4646, 0.4640



18.2138, 0.3179, 0.3117



13.0264, 0.4014, 0.1985

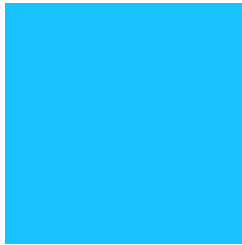


1.2864, 0.3901, 0.1923



# Previews

## White Background



This preview shows how the Yxy color 45.9857, 0.2036, 0.2483 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

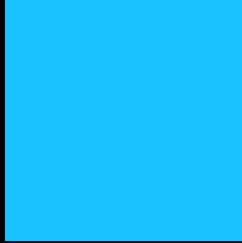
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.9857, 0.2036, 0.2483 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

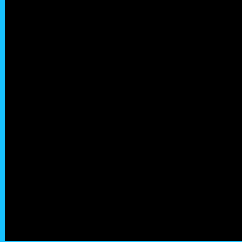
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

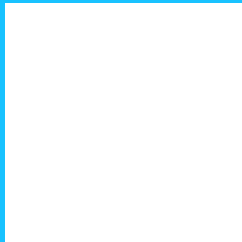
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.9857, 0.2036, 0.2483**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.9857, 0.2036, 0.2483.

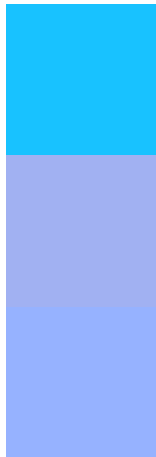


This preview shows how white text looks on a background with the Yxy color 45.9857, 0.2036, 0.2483.

# 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

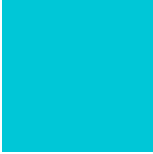
45.9978, 0.2036, 0.2483

### Protanopia

45.4322, 0.2549, 0.2493

### Deuteranopia

45.5448, 0.2411, 0.2359



## **Tritanopia**

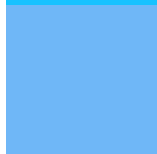
45.7531, 0.2182, 0.3053

# Trichromacy



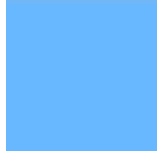
## Original Color

45.9978, 0.2036, 0.2483



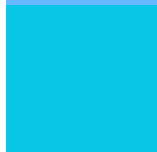
## Protanomaly

43.9619, 0.2255, 0.2462



## Deuteranomaly

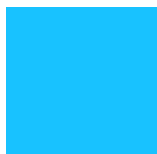
44.4440, 0.2194, 0.2385



## Tritanomaly

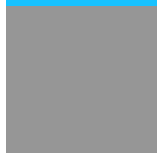
45.7038, 0.2122, 0.2822

# Monochromacy



## Original Color

45.9978, 0.2036, 0.2483



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

33.8463, 0.2474, 0.2946

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9857, 0.2036, 0.2483 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, 194, 255)` looks like.

```
.text, #text, p{  
  color:rgb(24, 194, 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(24, 194, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 194, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9857, 0.2036, 0.2483 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, 194, 255) }
```

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

```
.border{ border-color:rgb(24, 194, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(24, 194, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(24, 194, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(24, 194, 255);  
box-shadow:4px 4px 4px 4px rgb(24, 194,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9857, 0.2036, 0.2483 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 194, 255) }
```

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

```
.background{ background-color: rgb(24, 194,  
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