

# Converting Colors

$Y_{xy}(40.4732, 0.1982, 0.2301)$

Have a look what the booklet for  
Yxy(40.4732, 0.1982, 0.2301)  
contains.

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# Color

**Yxy(40.3963, 0.1981, 0.2298)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12B5FF
RGB	18, 181, 255
RGB Percent	7%, 71%, 100%
CMY	0.9290, 0.2902, 0.0000
CMYK	0.93, 0.29, 0.00, 0.00
HSL	199°, 100%, 54%
HSV	199°, 93%, 100%
XYZ	34.8238, 40.3963, 100.5689
YIQ	140.6990, -120.9020, -11.5420

# Conversions

## Conversions Part 2

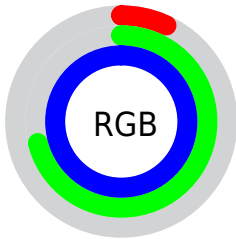
Format	Color
R <sub>Y</sub> B	18, 115, 255
Decimal	1226239
CIE Lab	69.75, -11.84, -46.93
CIE LCh	70, 48.397, 255.844
Yxy	40.3963, 0.1981, 0.2298
Android (android.graphics.Color)	4279416319 (0xFF12B5FF)
YUV	140.6990, 56.3504, -107.6070
Hunter-Lab	63.5581, -13.4256, -49.3247

# Details

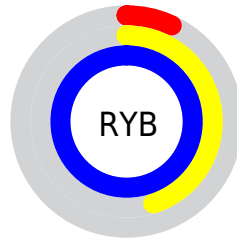
The Yxy color **40.3963, 0.1981, 0.2298** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **28.9744, 0.5797, 0.3717**, and the grayscale version is **26.3350, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.5014, 0.2388, 0.3075**, and **19.5156, 0.1912, 0.2083** is the 20% darker color. If you saturate the color by 10%, you get **38.0160, 0.1949, 0.2215**, and if you desaturate by 10%, it is **44.1271, 0.2041, 0.2417**.

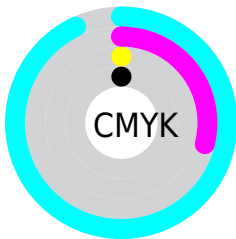
# Distribution



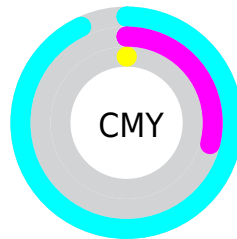
- Red (7%)
- Green (71%)
- Blue (100%)



- Red (7%)
- Yellow (45%)
- Blue (100%)



- Cyan (93%)
- Magenta (29%)
- Yellow (0%)
- Black (0%)



- Cyan (93%)
- Magenta (29%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.3963, 0.1981, 0.2298 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 40.3963, 0.1981, 0.2298 by changing the saturation by 10% instead.





 40.3963, 0.1981,  
0.2298


 40.3963, 0.1981,  
0.2298


347.7911, 0.2530,  
0.2790


 27.8477, 0.1855,  
0.2181


 75.7666, 0.2173,  
0.2474


 18.2109, 0.1702,  
0.2035


 99.3571, 0.2247,  
0.2541

 11.1015, 0.1511,  
0.1850


 127.3969, 0.2311,  
0.2598

 6.1351, 0.1272,  
0.1611

 160.2706, 0.2366,  
0.2647

 2.9274, 0.0972,  
0.1299

 198.3625, 0.2415,  
0.2690

 1.0940, 0.0604,  
0.0897

242.0569, 0.2458,

 0.0000, 0.0000,

0.2728

0.0000

291.7383, 0.2496,  
0.2761

■ 40.3963, 0.1981,  
0.2298

■ 40.3963, 0.1981,  
0.2298

■ 38.0160, 0.1949,  
0.2215

■ 44.1271, 0.2041,  
0.2417

■ 48.3899, 0.2122,  
0.2538

■ 53.2442, 0.2223,  
0.2658

■ 58.7385, 0.2342,  
0.2775

■ 64.9151, 0.2476,  
0.2888

■ 71.8117, 0.2620,  
0.2995

■ 79.4630, 0.2772,  
0.3094

■ 87.9009, 0.2927,  
0.3185

■ 97.1552, 0.3082,  
0.3268

# Harmonies

## Analogous

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



40.3963, 0.1895, 0.2657



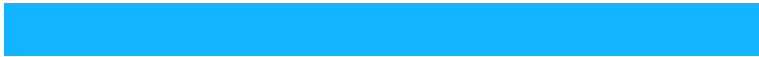
40.3963, 0.1981, 0.2298



40.3963, 0.2331, 0.2207

# Triad

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



40.3963, 0.1981, 0.2298



40.3963, 0.4268, 0.3146



40.3963, 0.3202, 0.4529

# Complementary

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



40.3963, 0.1981, 0.2298



28.9744, 0.5797, 0.3717

# 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.



40.3963, 0.3869, 0.4541



40.3963, 0.1981, 0.2298



40.3963, 0.4536, 0.3673

# Square

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



40.3963, 0.1981, 0.2298



40.3963, 0.3645, 0.2679



40.3963, 0.4369, 0.4182



40.3963, 0.2550, 0.4032



# Rectangle

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



40.3963, 0.1981, 0.2298



40.3963, 0.2701, 0.2277



40.3963, 0.4369, 0.4182



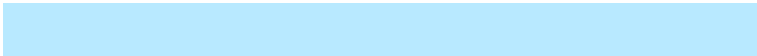
40.3963, 0.3432, 0.4587

# Sweetspot

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



40.3976, 0.1981, 0.2298



75.4679, 0.2694, 0.3044



72.3736, 0.2873, 0.5497



15.4626, 0.2629, 0.3001



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.



40.3976, 0.1981, 0.2298



38.0160, 0.1949, 0.2215



11.1849, 0.1591, 0.0880



19.4679, 0.2980, 0.3214



20.1430, 0.1954, 0.2234



2.1566, 0.1991, 0.2369



# Inverse Universe

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



25.0319, 0.4124, 0.2073



24.3689, 0.4217, 0.2096



66.2301, 0.4557, 0.4729



18.1981, 0.3186, 0.3128



12.7614, 0.4196, 0.2085



1.2623, 0.4055, 0.2007



# Previews

## White Background



This preview shows how the Yxy color 40.3963, 0.1981, 0.2298 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

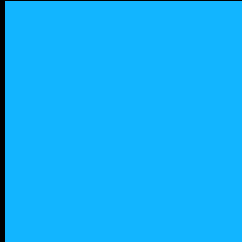
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.3963, 0.1981, 0.2298 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

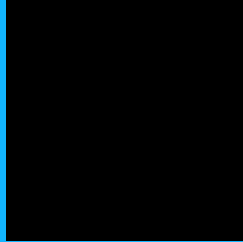
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

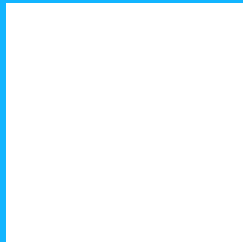
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.3963, 0.1981, 0.2298**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.3963, 0.1981, 0.2298.



This preview shows how white text looks on a background with the Yxy color 40.3963, 0.1981, 0.2298.

# 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

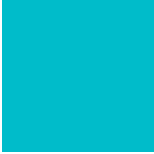
40.3963, 0.1981, 0.2298

### Protanopia

39.7632, 0.2419, 0.2318

### Deuteranopia

40.1851, 0.2266, 0.2214



## Tritanopia

40.2307, 0.2186, 0.3071

# Trichromacy



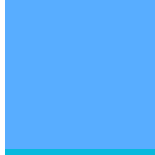
## Original Color

40.3963, 0.1981, 0.2298



## Protanomaly

38.4939, 0.2166, 0.2285



## Deuteranomaly

39.1818, 0.2098, 0.2221



## Tritanomaly

39.9636, 0.2103, 0.2757

# Monochromacy



## Original Color

40.3963, 0.1981, 0.2298



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

29.6411, 0.2432, 0.2865

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.3963, 0.1981, 0.2298 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(18, 181, 255)` looks like.

```
.text, #text, p{  
    color:rgb(18, 181, 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(18, 181, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 181, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 40.3963, 0.1981, 0.2298 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(18, 181, 255) }
```

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

```
.border{ border-color:rgb(18, 181, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 181, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 181, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 181, 255);  
box-shadow:4px 4px 4px 4px rgb(18, 181,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.3963, 0.1981, 0.2298 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 181, 255) }
```

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

```
.background{ background-color: rgb(18, 181,  
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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