

# Converting Colors

$Y_{xy}(20.0980, 0.1243, 0.1490)$

Have a look what the booklet for  
Yxy(20.0980, 0.1243, 0.1490)  
contains.

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# Color

**Yxy(25.3970, 0.1802, 0.1686)**

# Conversions

## Conversions Part 1

Format	Color
Hex	008AFF
RGB	0, 138, 255
RGB Percent	0%, 54%, 100%
CMY	0.9981, 0.4589, 0.0000
CMYK	1.00, 0.46, 0.00, 0.00
HSL	208°, 100%, 50%
HSV	208°, 100%, 100%
XYZ	27.1444, 25.3970, 98.0933
YIQ	110.0760, -119.8050, 7.1310

# Conversions

## Conversions Part 2

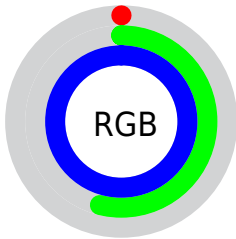
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 90, 255
Decimal	35583
CIE <sub>Lab</sub>	57.46, 12.63, -66.51
CIE <sub>LCh</sub>	57, 67.696, 280.753
Yxy	25.3970, 0.1802, 0.1686
Android (android.graphics.Color)	4278225663 (0xFF008AFF)
YUV	110.0760, 71.4475, -96.5367
Hunter-Lab	50.3954, 7.9530, -80.1295

# Details

The Yxy color **25.3970, 0.1802, 0.1686** is a dark color, and the websafe version is hex **3399FF**. The color can be described as dark saturated azure. A complement of this color would be **34.0976, 0.5552, 0.3972**, and the grayscale version is **15.4739, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.9263, 0.2248, 0.2485**, and **11.1760, 0.1726, 0.1413** is the 20% darker color. If you saturate the color by 10%, you get **25.3308, 0.1801, 0.1683**, and if you desaturate by 10%, it is **29.1599, 0.1866, 0.1855**.

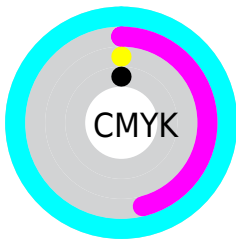
# Distribution



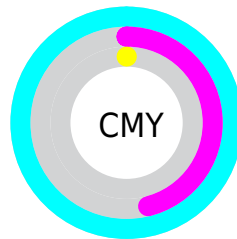
- Red (0%)
- Green (54%)
- Blue (100%)



- Red (0%)
- Yellow (35%)
- Blue (100%)



- Cyan (100%)
- Magenta (46%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (46%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 25.3970, 0.1802, 0.1686 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 25.3970, 0.1802, 0.1686 by changing the saturation by 10% instead.





 25.3970, 0.1802,  
0.1686


 25.3970, 0.1802,  
0.1686


279.8093, 0.2470,  
0.2464


 16.3731, 0.1645,  
0.1512

 52.3005, 0.2039,  
0.1956


 9.7885, 0.1454,  
0.1304


 70.9490, 0.2131,  
0.2062

 5.2590, 0.1220,  
0.1055


 93.5743, 0.2209,  
0.2153

 2.4000, 0.0934,  
0.0764

 120.5610, 0.2276,  
0.2232

 0.8259, 0.0602,  
0.0444

 152.2935, 0.2334,  
0.2301

 0.0000, 0.0042,  
0.0000

189.1561, 0.2385,

 0.0000, 0.0000,

0.2362

0.0000

231.5332, 0.2430,  
0.2416

■ 25.3970, 0.1802,  
0.1686

■ 25.3970, 0.1802,  
0.1686

■ 25.3308, 0.1801,  
0.1683

■ 29.1599, 0.1866,  
0.1855

■ 33.5780, 0.1952,  
0.2032

■ 38.7442, 0.2062,  
0.2214

■ 44.7205, 0.2191,  
0.2395

■ 51.5599, 0.2336,  
0.2572

■ 59.3098, 0.2491,  
0.2740

■ 68.0132, 0.2652,  
0.2898

■ 77.7100, 0.2814,  
0.3043

■ 88.4373, 0.2974,  
0.3174

# Harmonies

## Analogous

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



25.3970, 0.1395, 0.1827



25.3970, 0.1802, 0.1686



25.3970, 0.2592, 0.1843

# Triad

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



25.3970, 0.1802, 0.1686



25.3970, 0.5341, 0.3582



25.3970, 0.2310, 0.4780

# Complementary

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



25.3970, 0.1802, 0.1686



34.0976, 0.5552, 0.3972

# 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.



25.3970, 0.3300, 0.5450



25.3970, 0.1802, 0.1686



25.3970, 0.5073, 0.4351

# Square

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



25.3970, 0.1802, 0.1686



25.3970, 0.4841, 0.2875



25.3970, 0.4297, 0.5108



25.3970, 0.1606, 0.3429



# Rectangle

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



25.3970, 0.1802, 0.1686



25.3970, 0.3327, 0.2096



25.3970, 0.4297, 0.5108



25.3970, 0.2623, 0.5126

# Sweetspot

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



25.3966, 0.1802, 0.1686



67.8418, 0.2649, 0.2895



72.7611, 0.2779, 0.5203



13.7117, 0.2581, 0.2830



0.0000, 0.0000, 0.0000

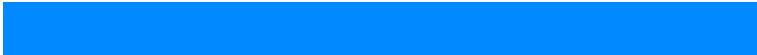


21.4041, 0.3127, 0.3290

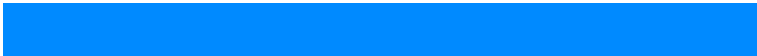


# Same Dimension

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



25.3966, 0.1802, 0.1686



25.3308, 0.1801, 0.1683



7.5161, 0.1507, 0.0622



19.0037, 0.2979, 0.3178



13.5383, 0.1809, 0.1711



1.5368, 0.1862, 0.1904



# Inverse Universe

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



23.1050, 0.4823, 0.2432



23.0883, 0.4827, 0.2433



84.9284, 0.4285, 0.4979



18.1512, 0.3209, 0.3162



12.0947, 0.4794, 0.2414



1.1997, 0.4563, 0.2287



# Previews

## White Background



This preview shows how the Yxy color 25.3970, 0.1802, 0.1686 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 25.3970, 0.1802, 0.1686 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

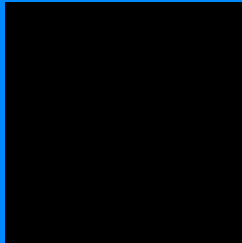
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

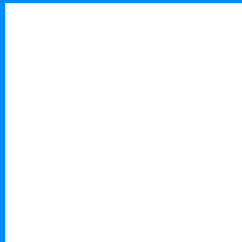
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 25.3970, 0.1802, 0.1686**

## **Background**



This preview shows how black text looks on a background with the Yxy color 25.3970, 0.1802, 0.1686.



This preview shows how white text looks on a background with the Yxy color 25.3970, 0.1802, 0.1686.

# 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

25.3970, 0.1802, 0.1686

### Protanopia

25.3394, 0.1950, 0.1712

### Deuteranopia

25.4100, 0.1830, 0.1788



## Tritanopia

25.1008, 0.2189, 0.3080

# Trichromacy



**Original Color**

25.3970, 0.1802, 0.1686

**Protanomaly**

25.0343, 0.1861, 0.1691

**Deuteranomaly**

25.3048, 0.1819, 0.1748

**Tritanomaly**

24.8530, 0.2016, 0.2456

# Monochromacy



**Original Color**

25.3970, 0.1802, 0.1686

**Achromatopsia**

15.5926, 0.3127, 0.3290

**Achromatomaly**

17.3794, 0.2252, 0.2469

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 25.3970, 0.1802, 0.1686 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(0, 138, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 138, 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(0, 138, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 138, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 25.3970, 0.1802, 0.1686 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(0, 138, 255) }
```

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

```
.border{ border-color:rgb(0, 138, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 138, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 138, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 138, 255); box-shadow:4px 4px 4px 4px rgb(0, 138, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 25.3970, 0.1802, 0.1686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 138, 255) }
```

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

```
.background{ background-color: rgb(0, 138,  
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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