

# Converting Colors

$Yxy(12.8358, 0.1040, 0.1094)$

Have a look what the booklet for  
Yxy(12.8358, 0.1040, 0.1094)  
contains.

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# Color

**Yxy(18.4905, 0.1716, 0.1376)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0170FA
RGB	1, 112, 250
RGB Percent	0%, 44%, 98%
CMY	0.9976, 0.5609, 0.0194
CMYK	1.00, 0.55, 0.00, 0.02
HSL	213°, 100%, 49%
HSV	213°, 100%, 98%
XYZ	23.0594, 18.4905, 92.8288
YIQ	94.5430, -110.4540, 19.3860

# Conversions

## Conversions Part 2

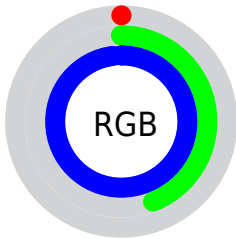
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 78, 250
Decimal	94458
CIE <sub>Lab</sub>	50.09, 26.99, -75.70
CIE <sub>LCh</sub>	50, 80.371, 289.625
Yxy	18.4905, 0.1716, 0.1376
Android (android.graphics.Color)	4278284538 (0xFF0170FA)
YUV	94.5430, 76.6403, -82.0372
Hunter-Lab	43.0006, 20.4709, -97.8936

# Details

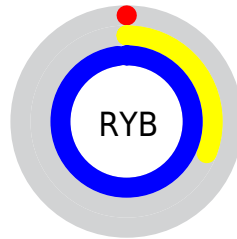
The Yxy color **18.4905, 0.1716, 0.1376** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark saturated azure. A complement of this color would be **38.7015, 0.5271, 0.4195**, and the grayscale version is **11.1308, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.8591, 0.2169, 0.2113**, and **7.7022, 0.1639, 0.1102** is the 20% darker color. If you saturate the color by 10%, you get **18.4140, 0.1714, 0.1372**, and if you desaturate by 10%, it is **21.9930, 0.1787, 0.1565**.

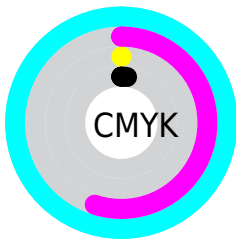
# Distribution



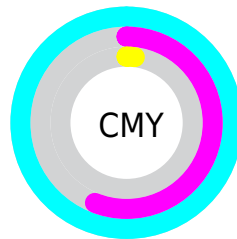
- Red (0%)
- Green (44%)
- Blue (98%)



- Red (0%)
- Yellow (31%)
- Blue (98%)



- Cyan (100%)
- Magenta (55%)
- Yellow (0%)
- Black (2%)




- Cyan (100%)
- Magenta (56%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.4905, 0.1716, 0.1376 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 18.4905, 0.1716, 0.1376 by changing the saturation by 10% instead.





 18.4905, 0.1716,  
0.1376


 18.4905, 0.1716,  
0.1376


243.6214, 0.2453,  
0.2294


 11.3027, 0.1540,  
0.1180


 40.8714, 0.1981,  
0.1688


 6.2708, 0.1327,  
0.0952

 56.8332, 0.2082,  
0.1813

 3.0105, 0.1067,  
0.0695

 76.4886, 0.2168,  
0.1921

 1.1372, 0.0760,  
0.0419

 100.2218, 0.2242,  
0.2015

 0.0095, 0.0424,  
0.0006

 128.4173, 0.2306,  
0.2097

 0.0000, 0.0000,  
0.0000

161.4595, 0.2361,

0.2171

199.7327, 0.2410,  
0.2236

■ 18.4905, 0.1716,  
0.1376

■ 18.4905, 0.1716,  
0.1376

■ 18.4140, 0.1714,  
0.1372

■ 21.9930, 0.1787,  
0.1565

■ 26.2532, 0.1884,  
0.1771

■ 31.3694, 0.2006,  
0.1986

■ 37.4087, 0.2149,  
0.2205

■ 44.4294, 0.2307,  
0.2420

■ 52.4838, 0.2474,  
0.2625

■ 61.6199, 0.2644,  
0.2816

■ 71.8822, 0.2812,  
0.2992

■ 83.3123, 0.2975,  
0.3151

# Harmonies

## Analogous

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



18.4905, 0.1144, 0.1408



18.4905, 0.1716, 0.1376



18.4905, 0.2807, 0.1647

# Triad

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



18.4905, 0.1716, 0.1376



18.4905, 0.5867, 0.3731



18.4905, 0.1721, 0.4801

# Complementary

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



18.4905, 0.1716, 0.1376



38.7015, 0.5271, 0.4195

# 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.



18.4905, 0.2814, 0.6119



18.4905, 0.1716, 0.1376



18.4905, 0.5177, 0.4694

# Square

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



18.4905, 0.1716, 0.1376



18.4905, 0.5650, 0.2931



18.4905, 0.4040, 0.5730



18.4905, 0.1095, 0.2910



# Rectangle

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



18.4905, 0.1716, 0.1376



18.4905, 0.3824, 0.1990



18.4905, 0.4040, 0.5730



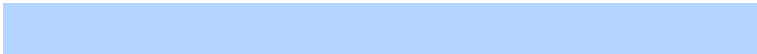
18.4905, 0.2049, 0.5418

# Sweetspot

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



18.4909, 0.1716, 0.1376



64.1602, 0.2639, 0.2811



70.2291, 0.2684, 0.4861



12.8426, 0.2568, 0.2732



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.



18.4909, 0.1716, 0.1376



19.2221, 0.1714, 0.1370



7.0038, 0.1512, 0.0607



17.9189, 0.2979, 0.3155



10.0412, 0.1723, 0.1402



1.1380, 0.1786, 0.1630



# Inverse Universe

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



21.5137, 0.5223, 0.2652



22.4716, 0.5231, 0.2656



86.5001, 0.4105, 0.5122



17.3540, 0.3224, 0.3185



11.4246, 0.5189, 0.2632



1.0791, 0.4894, 0.2469



# Previews

## White Background



This preview shows how the Yxy color 18.4905, 0.1716, 0.1376 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

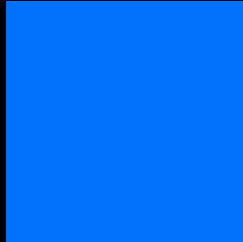
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 18.4905, 0.1716, 0.1376 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

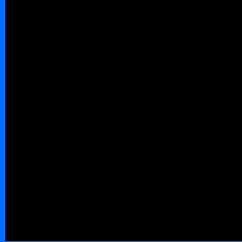
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

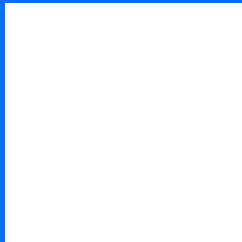
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 18.4905, 0.1716, 0.1376**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.4905, 0.1716, 0.1376.



This preview shows how white text looks on a background with the Yxy color 18.4905, 0.1716, 0.1376.

# 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

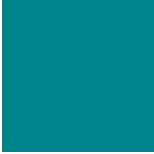
18.4969, 0.1716, 0.1377

### Protanopia

18.4454, 0.1737, 0.1454

### Deuteranopia

18.2782, 0.1844, 0.1837



## Tritanopia

18.3960, 0.2199, 0.3115

# Trichromacy



## Original Color

18.4969, 0.1716, 0.1377

## Protanomaly

18.4028, 0.1728, 0.1421

## Deuteranomaly

18.3387, 0.1791, 0.1648

## Tritanomaly

17.9625, 0.1962, 0.2263

# Monochromacy



## Original Color

18.4969, 0.1716, 0.1377

## Achromatopsia

11.1932, 0.3127, 0.3290

## Achromatomaly

12.5024, 0.2175, 0.2246

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.4905, 0.1716, 0.1376 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(1, 112, 250)` looks like.

```
.text, #text, p{  
    color:rgb(1, 112, 250)  
}
```

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(1, 112, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 112, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 18.4905, 0.1716, 0.1376 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(1, 112, 250) }
```

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

```
.border{ border-color:rgb(1, 112, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 112, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 112, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 112, 250);  
box-shadow:4px 4px 4px 4px rgb(1, 112,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.4905, 0.1716, 0.1376 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 112, 250) }
```

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

```
.background{ background-color: rgb(1, 112,  
250) }
```

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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