

# Converting Colors

$Yxy(21.8137, 0.1752, 0.1508)$

Have a look what the booklet for  
Yxy(21.8137, 0.1752, 0.1508)  
contains.

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# Color

**Yxy(21.8872, 0.1753, 0.1512)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	007DFF
RGB	0, 125, 255
RGB Percent	0%, 49%, 100%
CMY	1.0000, 0.5097, 0.0000
CMYK	1.00, 0.51, 0.00, 0.00
HSL	211°, 100%, 50%
HSV	211°, 100%, 100%
XYZ	25.3758, 21.8872, 97.4936
YIQ	102.4450, -116.2300, 13.9300

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 84, 255
Decimal	32255
CIE <sub>Lab</sub>	53.91, 20.63, -72.24
CIE <sub>LCh</sub>	54, 75.127, 285.940
Y <sub>xy</sub>	21.8872, 0.1753, 0.1512
Android (android.graphics.Color)	4278222335 (0xFF007DFF)
Y <sub>UV</sub>	102.4450, 75.2096, -89.8443
Hunter-Lab	46.7838, 14.9481, -90.8069

# Details

The Yxy color **21.8872, 0.1753, 0.1512** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark saturated azure. A complement of this color would be **37.2192, 0.5407, 0.4089**, and the grayscale version is **13.2353, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.1750, 0.2213, 0.2300**, and **9.4800, 0.1679, 0.1243** is the 20% darker color. If you saturate the color by 10%, you get **21.8925, 0.1754, 0.1512**, and if you desaturate by 10%, it is **25.6154, 0.1822, 0.1693**.

# Distribution



- Red (0%)
- Green (49%)
- Blue (100%)



- Red (0%)
- Yellow (33%)
- Blue (100%)



- Cyan (100%)
- Magenta (51%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (51%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8872, 0.1753, 0.1512 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 21.8872, 0.1753, 0.1512 by changing the saturation by 10% instead.





 21.8872, 0.1753,  
0.1512


 21.8872, 0.1753,  
0.1512


261.9566, 0.2457,  
0.2366

 13.7740, 0.1587,  
0.1326


 46.5595, 0.2004,  
0.1805


 7.9637, 0.1386,  
0.1108


 63.8874, 0.2100,  
0.1920


 4.0717, 0.1140,  
0.0854

 85.0557, 0.2182,  
0.2021

 1.7138, 0.0845,  
0.0570

 110.4488, 0.2253,  
0.2108

 0.4325, 0.0515,  
0.0243

 140.4510, 0.2314,  
0.2184

 0.0000, 0.0000,  
0.0000

175.4468, 0.2368,

0.2252

215.8205, 0.2415,  
0.2312

■ 21.8872, 0.1753,  
0.1512

■ 21.8872, 0.1753,  
0.1512

■ 21.8925, 0.1754,  
0.1512

■ 25.6154, 0.1822,  
0.1693

■ 30.0623, 0.1913,  
0.1887

■ 35.3331, 0.2029,  
0.2087

■ 41.4938, 0.2165,  
0.2289

■ 48.6017, 0.2317,  
0.2486

■ 56.7078, 0.2478,  
0.2674

■ 65.8587, 0.2644,  
0.2851

■ 76.0977, 0.2809,  
0.3012

■ 87.4652, 0.2971,  
0.3159

# Harmonies

## Analogous

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



21.8872, 0.1253, 0.1591



21.8872, 0.1753, 0.1512



21.8872, 0.2703, 0.1734

# Triad

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



21.8872, 0.1753, 0.1512



21.8872, 0.5648, 0.3678



21.8872, 0.1992, 0.4809

# Complementary

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



21.8872, 0.1753, 0.1512



37.2192, 0.5407, 0.4089

# 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.



21.8872, 0.3050, 0.5802



21.8872, 0.1753, 0.1512



21.8872, 0.5151, 0.4543

# Square

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



21.8872, 0.1753, 0.1512



21.8872, 0.5279, 0.2915



21.8872, 0.4179, 0.5440



21.8872, 0.1319, 0.3158



# Rectangle

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



21.8872, 0.1753, 0.1512



21.8872, 0.3584, 0.2038



21.8872, 0.4179, 0.5440



21.8872, 0.2317, 0.5292

# Sweetspot

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



21.8925, 0.1754, 0.1512



65.8593, 0.2644, 0.2851



73.0648, 0.2734, 0.5041



13.2429, 0.2574, 0.2778



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.



21.8925, 0.1754, 0.1512



21.8927, 0.1754, 0.1512



7.2199, 0.1500, 0.0600



18.8483, 0.2979, 0.3166



11.7365, 0.1762, 0.1541



1.3607, 0.1819, 0.1750



# Inverse Universe

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



22.7410, 0.5043, 0.2552



22.7412, 0.5043, 0.2552



92.7792, 0.4193, 0.5053



18.1355, 0.3217, 0.3174



11.9128, 0.5006, 0.2531



1.1819, 0.4746, 0.2388



# Previews

## White Background



This preview shows how the Yxy color 21.8872, 0.1753, 0.1512 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

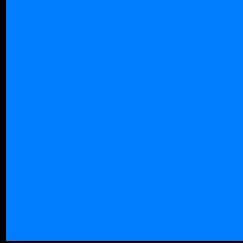
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.8872, 0.1753, 0.1512 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

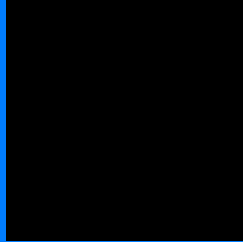
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

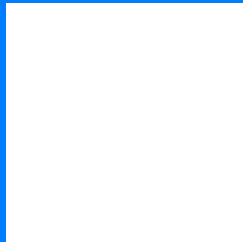
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 21.8872, 0.1753, 0.1512**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.8872, 0.1753, 0.1512.



This preview shows how white text looks on a background with the Yxy color 21.8872, 0.1753, 0.1512.

# 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

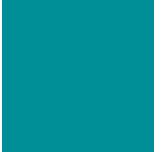
21.8872, 0.1753, 0.1512

### Protanopia

22.0426, 0.1806, 0.1533

### Deuteranopia

21.7787, 0.1840, 0.1823



## **Tritanopia**

21.5804, 0.2196, 0.3106

# Trichromacy



## Original Color

21.8872, 0.1753, 0.1512

## Protanomaly

21.8179, 0.1776, 0.1515

## Deuteranomaly

21.8149, 0.1807, 0.1703

## Tritanomaly

21.2824, 0.1986, 0.2350

# Monochromacy



## Original Color

21.8872, 0.1753, 0.1512

## Achromatopsia

13.2868, 0.3127, 0.3290

## Achromatomaly

14.7443, 0.2206, 0.2335

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8872, 0.1753, 0.1512 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, 125, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 125, 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, 125, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 125, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8872, 0.1753, 0.1512 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, 125, 255) }
```

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

```
.border{ border-color:rgb(0, 125, 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, 125, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 125, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 125, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 125,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.8872, 0.1753, 0.1512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 125, 255) }
```

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

```
.background{ background-color: rgb(0, 125,  
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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