

# Converting Colors

$Y_{xy}(20.0221, 0.1786, 0.1404)$

Have a look what the booklet for  
Yxy(20.0221, 0.1786, 0.1404)  
contains.

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# Color

**Yxy(19.9584, 0.1785, 0.1400)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3372FF
RGB	51, 114, 255
RGB Percent	20%, 45%, 100%
CMY	0.7990, 0.5531, 0.0000
CMYK	0.80, 0.55, 0.00, 0.00
HSL	222°, 100%, 60%
HSV	222°, 80%, 100%
XYZ	25.4470, 19.9584, 97.1546
YIQ	111.2370, -82.8090, 30.4950

# Conversions

## Conversions Part 2

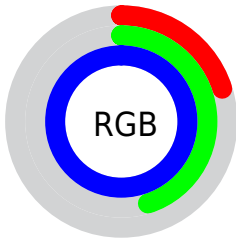
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 99, 255
Decimal	3371775
CIE Lab	51.79, 30.06, -75.66
CIE LCh	52, 81.417, 291.666
Yxy	19.9584, 0.1785, 0.1400
Android (android.graphics.Color)	4281561855 (0xFF3372FF)
YUV	111.2370, 70.8752, -52.8278
Hunter-Lab	44.6748, 23.4934, -97.6660

# Details

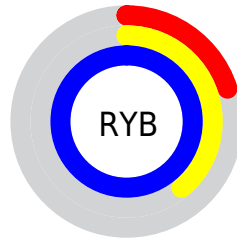
The Yxy color **19.9584, 0.1785, 0.1400** is a dark color, and the websafe version is hex **0066FF**. The color can be described as middle washed azure. A complement of this color would be **59.3315, 0.4620, 0.4512**, and the grayscale version is **15.7937, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.7974, 0.2262, 0.2164**, and **8.0455, 0.1636, 0.1089** is the 20% darker color. If you saturate the color by 10%, you get **15.8584, 0.1680, 0.1175**, and if you desaturate by 10%, it is **25.1853, 0.1922, 0.1653**.

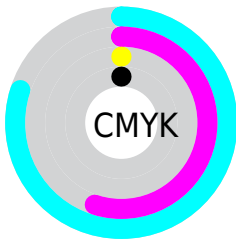
# Distribution



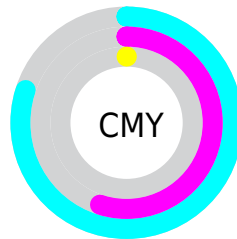
- Red (20%)
- Green (45%)
- Blue (100%)



- Red (20%)
- Yellow (39%)
- Blue (100%)



- Cyan (80%)
- Magenta (55%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (55%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.9584, 0.1785, 0.1400 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 19.9584, 0.1785, 0.1400 by changing the saturation by 10% instead.




 19.9584, 0.1785,  
0.1400


 19.9584, 0.1785,  
0.1400


251.6898, 0.2484,  
0.2296


 12.3648, 0.1618,  
0.1210


 43.3474, 0.2037,  
0.1704


 6.9926, 0.1414,  
0.0988


 59.9117, 0.2133,  
0.1825

 3.4575, 0.1164,  
0.0737

 80.2349, 0.2214,  
0.1930

 1.3750, 0.0864,  
0.0464

 104.7015, 0.2284,  
0.2022

 0.1982, 0.0529,  
0.0113

133.6959, 0.2344,  
0.2103

 0.0000, 0.0000,  
0.0000

167.6025, 0.2397,

0.2175

206.8057, 0.2443,  
0.2239

■ 19.9584, 0.1785,  
0.1400

■ 19.9584, 0.1785,  
0.1400

■ 15.8584, 0.1680,  
0.1175

■ 25.1853, 0.1922,  
0.1653

■ 12.7640, 0.1607,  
0.0985

■ 31.6386, 0.2083,  
0.1919

■ 12.7368, 0.1607,  
0.0983

■ 39.3974, 0.2260,  
0.2187

■ 48.5354, 0.2444,  
0.2446

■ 59.1200, 0.2627,  
0.2689

■ 71.2140, 0.2805,  
0.2912

■ 84.8765, 0.2973,  
0.3113

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



19.9584, 0.1185, 0.1411



19.9584, 0.1785, 0.1400



19.9584, 0.2906, 0.1690

# Triad

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



19.9584, 0.1785, 0.1400



19.9584, 0.5819, 0.3795



19.9584, 0.1678, 0.4646

# Complementary

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



19.9584, 0.1785, 0.1400



59.3315, 0.4620, 0.4512

# 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.



19.9584, 0.2744, 0.6050



19.9584, 0.1785, 0.1400



19.9584, 0.5095, 0.4760

# Square

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



19.9584, 0.1785, 0.1400



19.9584, 0.5673, 0.2991



19.9584, 0.3958, 0.5767



19.9584, 0.1089, 0.2817



# Rectangle

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



19.9584, 0.1785, 0.1400



19.9584, 0.3926, 0.2043



19.9584, 0.3958, 0.5767



19.9584, 0.1994, 0.5272

# Sweetspot

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



19.9561, 0.1785, 0.1400



66.0677, 0.2733, 0.2823



75.9693, 0.2531, 0.4136



13.2294, 0.2669, 0.2743



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.



19.9561, 0.1785, 0.1400



13.8678, 0.1633, 0.1055



11.7149, 0.1785, 0.0896



18.2894, 0.2979, 0.3121



6.8859, 0.1615, 0.1012



0.8543, 0.1676, 0.1232



# Inverse Universe

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



24.8642, 0.5129, 0.2805



22.1459, 0.5669, 0.2919



86.6124, 0.3874, 0.5148



18.0791, 0.3246, 0.3217



11.4231, 0.5741, 0.2936



1.1308, 0.5421, 0.2760



# Previews

## White Background



This preview shows how the Yxy color 19.9584, 0.1785, 0.1400 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

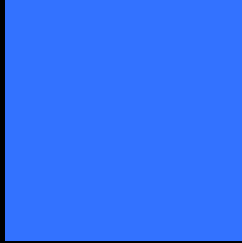
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.9584, 0.1785, 0.1400 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

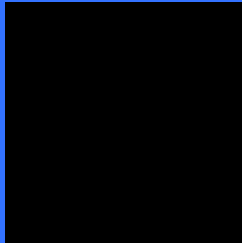
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

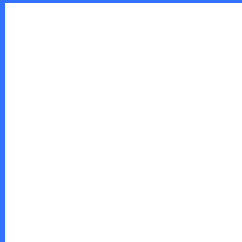
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 19.9584, 0.1785, 0.1400**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.9584, 0.1785, 0.1400.



This preview shows how white text looks on a background with the Yxy color 19.9584, 0.1785, 0.1400.

# 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

19.9584, 0.1785, 0.1400

### Protanopia

19.9219, 0.1735, 0.1447

### Deuteranopia

19.6251, 0.1843, 0.1833



## Tritanopia

19.6527, 0.2194, 0.3099

# Trichromacy



## Original Color

19.9584, 0.1785, 0.1400

## Protanomaly

19.8893, 0.1744, 0.1433

## Deuteranomaly

19.5264, 0.1806, 0.1649

## Tritanomaly

19.0796, 0.1981, 0.2257

# Monochromacy



## Original Color

19.9584, 0.1785, 0.1400

## Achromatopsia

15.8961, 0.3127, 0.3290

## Achromatomaly

16.3565, 0.2367, 0.2343

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.9584, 0.1785, 0.1400 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(51, 114, 255)` looks like.

```
.text, #text, p{  
  color:rgb(51, 114, 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(51, 114, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 114, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 19.9584, 0.1785, 0.1400 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(51, 114, 255) }
```

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

```
.border{ border-color:rgb(51, 114, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 114, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 114, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 114, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 114,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.9584, 0.1785, 0.1400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 114, 255) }
```

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

```
.background{ background-color: rgb(51, 114,  
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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