

Converting Colors

$Y_{xy}(13.2862, 0.1375, 0.1177)$

Have a look what the booklet for
Yxy(13.2862, 0.1375, 0.1177)
contains.

Yxy(15.7940, 0.1697, 0.1309)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(15.7940, 0.1697, 0.1309)

Conversions

Conversions Part 1

Format	Color
Hex	0066F0
RGB	0, 102, 240
RGB Percent	0%, 40%, 94%
CMY	1.0000, 0.6000, 0.0589
CMYK	1.00, 0.57, 0.00, 0.06
HSL	214°, 100%, 47%
HSV	214°, 100%, 94%
XYZ	20.4755, 15.7940, 84.3875
YIQ	87.2340, -105.0900, 21.2940

Conversions

Conversions Part 2

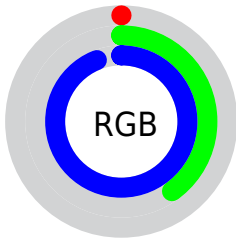
Format	Color
RYB	0, 72, 240
Decimal	26352
CIELab	46.70, 29.46, -75.60
CIELCh	47, 81.140, 291.290
Yxy	15.7940, 0.1697, 0.1309
Android (android.graphics.Color)	4278216432 (0xFF0066F0)
YUV	87.2340, 75.3136, -76.5042
Hunter-Lab	39.7417, 22.4179, -98.0773

Details

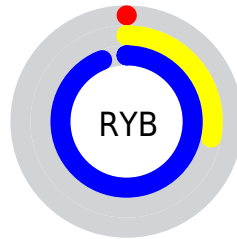
The Yxy color **15.7940, 0.1697, 0.1309** is a dark color, and the websafe version is hex **0066FF**. The color can be described as dark saturated azure. A complement of this color would be **36.6876, 0.5209, 0.4246**, and the grayscale version is **9.4367, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.9915, 0.2128, 0.1966**, and **6.3452, 0.1618, 0.1026** is the 20% darker color. If you saturate the color by 10%, you get **15.7946, 0.1697, 0.1309**, and if you desaturate by 10%, it is **18.9303, 0.1770, 0.1501**.

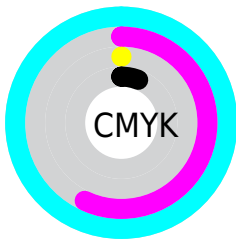
Distribution



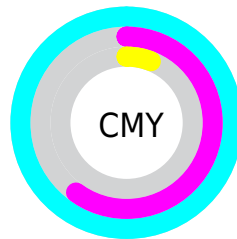
- Red (0%)
- Green (40%)
- Blue (94%)



- Red (0%)
- Yellow (28%)
- Blue (94%)



- Cyan (100%)
- Magenta (57%)
- Yellow (0%)
- Black (6%)





- Cyan (100%)
- Magenta (60%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 15.7940, 0.1697, 0.1309 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 15.7940, 0.1697, 0.1309 by changing the saturation by 10% instead.


 15.7940, 0.1697,
0.1309


 15.7940, 0.1697,
0.1309


228.1231, 0.2460,
0.2270


 9.3785, 0.1512,
0.1103


 36.2402, 0.1975,
0.1637


 4.9889, 0.1285,
0.0866


 51.0397, 0.2080,
0.1768


 2.2407, 0.1009,
0.0601

 69.4027, 0.2169,
0.1881

 0.7421, 0.0686,
0.0324

 91.7135, 0.2245,
0.1979

 0.0000, 0.0287,
0.0000

 118.3565, 0.2310,
0.2066

 0.0000, 0.0000,
0.0000

149.7162, 0.2367,

0.2142

186.1769, 0.2416,
0.2209

■ 15.7940, 0.1697,
0.1309

■ 15.7940, 0.1697,
0.1309

■ 15.7946, 0.1697,
0.1309

■ 18.9303, 0.1770,
0.1501

■ 22.7780, 0.1868,
0.1711

■ 27.4324, 0.1992,
0.1933

■ 32.9565, 0.2138,
0.2159

■ 39.4051, 0.2299,
0.2382

■ 46.8275, 0.2467,
0.2595

■ 55.2691, 0.2639,
0.2794

■ 64.7719, 0.2808,
0.2977

■ 75.3751, 0.2972,
0.3142

Harmonies

Analogous

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



15.7940, 0.1090, 0.1319



15.7940, 0.1697, 0.1309



15.7940, 0.2863, 0.1602

Triad

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



15.7940, 0.1697, 0.1309



15.7940, 0.5965, 0.3745



15.7940, 0.1583, 0.4788

Complementary

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



15.7940, 0.1697, 0.1309



36.6876, 0.5209, 0.4246

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.



15.7940, 0.2685, 0.6292



15.7940, 0.1697, 0.1309



15.7940, 0.5203, 0.4790

Square

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



15.7940, 0.1697, 0.1309



15.7940, 0.5840, 0.2932



15.7940, 0.3969, 0.5903



15.7940, 0.0987, 0.2779

Rectangle

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



15.7940, 0.1697, 0.1309



15.7940, 0.3953, 0.1963



15.7940, 0.3969, 0.5903



15.7940, 0.1909, 0.5480

Sweetspot

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



15.7946, 0.1697, 0.1309



63.3424, 0.2637, 0.2792



64.0826, 0.2667, 0.4802



12.6504, 0.2565, 0.2710



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.



15.7946, 0.1697, 0.1309



18.0292, 0.1695, 0.1303



6.3999, 0.1516, 0.0609



16.3334, 0.2980, 0.3151



8.8993, 0.1705, 0.1339



0.9335, 0.1776, 0.1595

Inverse Universe

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



19.4804, 0.5314, 0.2701



22.3512, 0.5322, 0.2705



78.1490, 0.4075, 0.5146



15.8704, 0.3226, 0.3190



10.6917, 0.5274, 0.2679



0.9090, 0.4937, 0.2494

Previews

White Background



This preview shows how the Yxy color 15.7940, 0.1697, 0.1309 looks on a white background.

Color Contrast Check

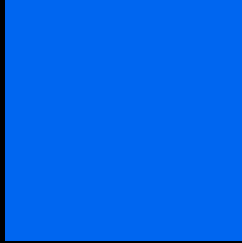
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 15.7940, 0.1697, 0.1309 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

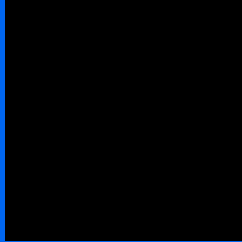
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 15.7940, 0.1697, 0.1309

Background



This preview shows how black text looks on a background with the Yxy color 15.7940, 0.1697, 0.1309.



This preview shows how white text looks on a background with the Yxy color 15.7940, 0.1697, 0.1309.

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

15.7940, 0.1697, 0.1309

Protanopia

15.7443, 0.1739, 0.1461

Deuteranopia

15.6605, 0.1852, 0.1868



Tritanopia

15.5308, 0.2195, 0.3103

Trichromacy



Original Color

15.7940, 0.1697, 0.1309

Protanomaly

15.8163, 0.1726, 0.1412

Deuteranomaly

15.5904, 0.1786, 0.1628

Tritanomaly

15.1637, 0.1946, 0.2204

Monochromacy



Original Color

15.7940, 0.1697, 0.1309

Achromatopsia

9.5307, 0.3127, 0.3290

Achromatomaly

10.4497, 0.2146, 0.2165

CSS Examples

Text

The CSS property to change the color of the text to Yxy 15.7940, 0.1697, 0.1309 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, 102, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 102, 240)  
}
```

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, 102, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 102, 240) }
```

Border

The CSS property to change the border of an element to Yxy 15.7940, 0.1697, 0.1309 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, 102, 240) }
```

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

```
.border{ border-color:rgb(0, 102, 240) }
```

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

Here you see how a box with a 4 pixel rgb(0, 102, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 102, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 102, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 102,  
240) }
```


Background

The CSS property to change the background color of an element to Yxy 15.7940, 0.1697, 0.1309 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 102, 240) }
```

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

```
.background{ background-color: rgb(0, 102,  
240) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor