

Converting Colors

$Y_{xy}(4.9528, 0.0511, 0.0421)$

Have a look what the booklet for
Yxy(4.9528, 0.0511, 0.0421)
contains.

Yxy(12.8120, 0.1608, 0.0988)	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(12.8120, 0.1608, 0.0988)

Conversions

Conversions Part 1

Format	Color
Hex	004FFF
RGB	0, 79, 255
RGB Percent	0%, 31%, 100%
CMY	0.9992, 0.6903, 0.0000
CMYK	1.00, 0.69, 0.00, 0.00
HSL	221°, 100%, 50%
HSV	221°, 100%, 100%
XYZ	20.8519, 12.8120, 96.0122
YIQ	75.4430, -103.5800, 37.9880

Conversions

Conversions Part 2

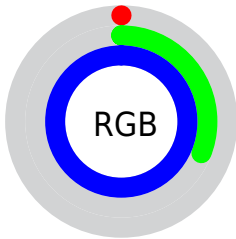
Format	Color
R _Y B	0, 60, 255
Decimal	20479
CIE Lab	42.48, 49.50, -90.96
CIE LCh	42, 103.556, 298.553
Yxy	12.8120, 0.1608, 0.0988
Android (android.graphics.Color)	4278210559 (0xFF004FFF)
YUV	75.4430, 88.5216, -66.1635
Hunter-Lab	35.7939, 41.3470, -133.9817

Details

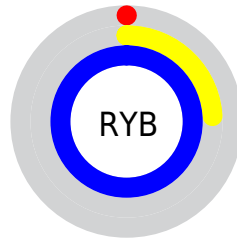
The Yxy color **12.8120, 0.1608, 0.0988** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark saturated blue. A complement of this color would be **52.4040, 0.4883, 0.4504**, and the grayscale version is **6.9810, 0.3127, 0.3290**.

A 20% lighter version of the original color is **26.3713, 0.2096, 0.1676**, and **5.2333, 0.1544, 0.0756** is the 20% darker color. If you saturate the color by 10%, you get **12.7873, 0.1608, 0.0987**, and if you desaturate by 10%, it is **15.9102, 0.1681, 0.1178**.

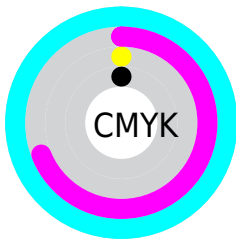
Distribution



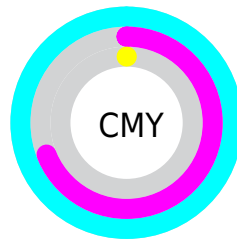
- Red (0%)
- Green (31%)
- Blue (100%)



- Red (0%)
- Yellow (24%)
- Blue (100%)



- Cyan (100%)
- Magenta (69%)
- Yellow (0%)
- Black (0%)





- Cyan (100%)
- Magenta (69%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8120, 0.1608, 0.0988 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 12.8120, 0.1608, 0.0988 by changing the saturation by 10% instead.


 12.8120, 0.1608,
0.0988


 12.8120, 0.1608,
0.0988


209.7093, 0.2426,
0.2041


 7.2992, 0.1415,
0.0787


 30.9656, 0.1903,
0.1329


 3.6499, 0.1182,
0.0568


 44.3752, 0.2016,
0.1471

 1.4797, 0.0909,
0.0346

 61.1859, 0.2111,
0.1596

 0.2744, 0.0604,
0.0101

 81.7821, 0.2193,
0.1706

 0.0000, 0.0254,
0.0000

 106.5481, 0.2264,
0.1805

 0.0000, 0.0000,
0.0000

135.8684, 0.2325,

0.1892

170.1273, 0.2379,
0.1971

■ 12.8120, 0.1608,
0.0988

■ 12.8120, 0.1608,
0.0988

■ 12.7873, 0.1608,
0.0987

■ 15.9102, 0.1681,
0.1178

■ 20.0114, 0.1786,
0.1403

■ 25.2415, 0.1922,
0.1655

■ 31.6929, 0.2083,
0.1921

■ 39.4468, 0.2260,
0.2188

■ 48.5764, 0.2444,
0.2447

■ 59.1492, 0.2627,
0.2690

■ 71.2278, 0.2804,
0.2913

■ 84.8709, 0.2972,
0.3113

Harmonies

Analogous

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



12.8120, 0.0838, 0.0910



12.8120, 0.1608, 0.0988



12.8120, 0.3213, 0.1373

Triad

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



12.8120, 0.1608, 0.0988



12.8120, 0.6299, 0.3701



12.8120, 0.0884, 0.4544

Complementary

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



12.8120, 0.1608, 0.0988



52.4040, 0.4883, 0.4504

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.



12.8120, 0.1902, 0.7303



12.8120, 0.1608, 0.0988



12.8120, 0.4950, 0.5050

Square

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



12.8120, 0.1608, 0.0988



12.8120, 0.6769, 0.2826



12.8120, 0.3303, 0.6697



12.8120, 0.0511, 0.2059

Rectangle

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



12.8120, 0.1608, 0.0988



12.8120, 0.4750, 0.1811



12.8120, 0.3303, 0.6697



12.8120, 0.1156, 0.5708

Sweetspot

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



12.8098, 0.1608, 0.0988



59.0551, 0.2625, 0.2688



74.5898, 0.2550, 0.4379



11.6487, 0.2549, 0.2588



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.



12.8098, 0.1608, 0.0988



12.7873, 0.1608, 0.0987



7.8271, 0.1574, 0.0641



18.2936, 0.2979, 0.3121



6.9131, 0.1615, 0.1015



0.8574, 0.1677, 0.1236

Inverse Universe

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



21.8288, 0.5776, 0.2956



21.8220, 0.5779, 0.2957



84.9723, 0.3867, 0.5312



18.0795, 0.3245, 0.3217



11.4258, 0.5736, 0.2934



1.1311, 0.5416, 0.2757

Previews

White Background



This preview shows how the Yxy color 12.8120, 0.1608, 0.0988 looks on a white background.

Color Contrast Check

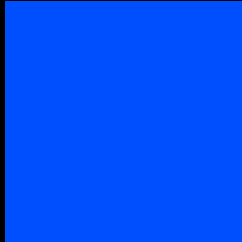
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8120, 0.1608, 0.0988 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

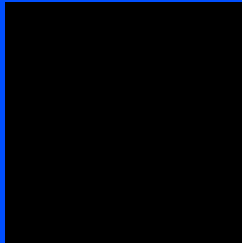
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8120, 0.1608, 0.0988

Background



This preview shows how black text looks on a background with the Yxy color 12.8120, 0.1608, 0.0988.



This preview shows how white text looks on a background with the Yxy color 12.8120, 0.1608, 0.0988.

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

12.8120, 0.1608, 0.0988

Protanopia

12.6300, 0.1746, 0.1486

Deuteranopia

12.4813, 0.1863, 0.1906



Tritanopia

12.4128, 0.2204, 0.3135

Trichromacy



Original Color

12.8120, 0.1608, 0.0988

Protanomaly

12.5328, 0.1684, 0.1264

Deuteranomaly

12.2697, 0.1737, 0.1454

Tritanomaly

11.7137, 0.1864, 0.1909

Monochromacy



Original Color

12.8120, 0.1608, 0.0988

Achromatopsia

7.0360, 0.3127, 0.3290

Achromatomaly

7.6907, 0.2029, 0.1828

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8120, 0.1608, 0.0988 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, 79, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 79, 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, 79, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 79, 255) }
```

Border

The CSS property to change the border of an element to Yxy 12.8120, 0.1608, 0.0988 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, 79, 255) }
```

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

```
.border{ border-color:rgb(0, 79, 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, 79, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 79, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 79, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 79, 255)  
}
```


Background

The CSS property to change the background color of an element to Yxy 12.8120, 0.1608, 0.0988 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 79, 255) }
```

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

```
.background{ background-color: rgb(0, 79,  
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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