

Converting Colors

$Y_{xy}(12.6399, 0.1605, 0.0977)$

Have a look what the booklet for
Yxy(12.6399, 0.1605, 0.0977)
contains.

Yxy(12.6688, 0.1605, 0.0979)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	22
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	28

Color

Yxy(12.6688, 0.1605, 0.0979)

Conversions

Conversions Part 1

Format	Color
Hex	004EFF
RGB	0, 78, 255
RGB Percent	0%, 31%, 100%
CMY	1.0000, 0.6940, 0.0000
CMYK	1.00, 0.69, 0.00, 0.00
HSL	222°, 100%, 50%
HSV	222°, 100%, 100%
XYZ	20.7696, 12.6688, 95.9671
YIQ	74.8560, -103.3050, 38.5110

Conversions

Conversions Part 2

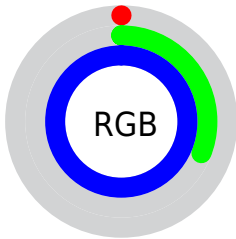
Format	Color
R _Y B	0, 60, 255
Decimal	20223
CIE Lab	42.26, 50.04, -91.31
CIE LCh	42, 104.122, 298.725
Yxy	12.6688, 0.1605, 0.0979
Android (android.graphics.Color)	4278210303 (0xFF004EFF)
YUV	74.8560, 88.8110, -65.6487
Hunter-Lab	35.5933, 41.8712, -134.9434

Details

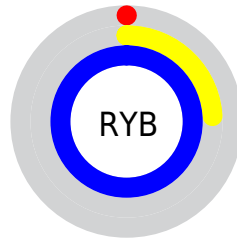
The Yxy color **12.6688, 0.1605, 0.0979** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark saturated blue. A complement of this color would be **52.6952, 0.4876, 0.4511**, and the grayscale version is **6.8634, 0.3127, 0.3290**.

A 20% lighter version of the original color is **26.1117, 0.2094, 0.1665**, and **5.1753, 0.1542, 0.0749** is the 20% darker color. If you saturate the color by 10%, you get **12.6721, 0.1605, 0.0979**, and if you desaturate by 10%, it is **15.7480, 0.1678, 0.1168**.

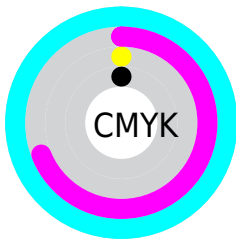
Distribution



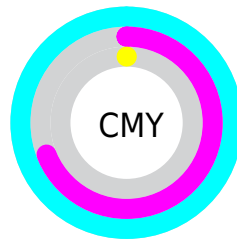
- Red (0%)
- Green (31%)
- Blue (100%)



- 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 12.6688, 0.1605, 0.0979 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 12.6688, 0.1605, 0.0979 by changing the saturation by 10% instead.


 12.6688, 0.1605,
0.0979


 12.6688, 0.1605,
0.0979


208.7840, 0.2425,
0.2035


 7.2009, 0.1411,
0.0778


 30.7075, 0.1901,
0.1321


 3.5880, 0.1178,
0.0560


 44.0470, 0.2014,
0.1463


 1.4459, 0.0904,
0.0339

 60.7792, 0.2110,
0.1588

 0.2502, 0.0599,
0.0092

 81.2885, 0.2192,
0.1699

 0.0000, 0.0248,
0.0000

 105.9592, 0.2263,
0.1798

 0.0000, 0.0000,
0.0000

135.1758, 0.2324,

0.1885

169.3226, 0.2378,
0.1964

■ 12.6688, 0.1605,
0.0979

■ 12.6688, 0.1605,
0.0979

■ 12.6721, 0.1605,
0.0979

■ 15.7480, 0.1678,
0.1168

■ 19.8276, 0.1783,
0.1393

■ 25.0409, 0.1919,
0.1646

■ 31.4808, 0.2081,
0.1912

■ 39.2293, 0.2257,
0.2181

■ 48.3603, 0.2441,
0.2441

■ 58.9416, 0.2625,
0.2685

■ 71.0365, 0.2803,
0.2909

■ 84.7040, 0.2971,
0.3111

Harmonies

Analogous

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



12.6688, 0.0831, 0.0899



12.6688, 0.1605, 0.0979



12.6688, 0.3224, 0.1365

Triad

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



12.6688, 0.1605, 0.0979



12.6688, 0.6304, 0.3696



12.6688, 0.0865, 0.4533

Complementary

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



12.6688, 0.1605, 0.0979



52.6952, 0.4876, 0.4511

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.



12.6688, 0.1877, 0.7336



12.6688, 0.1605, 0.0979



12.6688, 0.4942, 0.5058

Square

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



12.6688, 0.1605, 0.0979



12.6688, 0.6793, 0.2819



12.6688, 0.3279, 0.6721



12.6688, 0.0499, 0.2038

Rectangle

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



12.6688, 0.1605, 0.0979



12.6688, 0.4775, 0.1805



12.6688, 0.3279, 0.6721



12.6688, 0.1134, 0.5713

Sweetspot

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



12.6721, 0.1605, 0.0979



58.9416, 0.2625, 0.2685



74.5858, 0.2550, 0.4380



11.6223, 0.2548, 0.2584



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.



12.6721, 0.1605, 0.0979



7.8184, 0.1573, 0.0640



18.2841, 0.2979, 0.3120



6.8511, 0.1613, 0.1008



0.8504, 0.1674, 0.1228

Inverse Universe

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



21.8104, 0.5790, 0.2963



84.9662, 0.3866, 0.5312



18.0786, 0.3246, 0.3218



11.4196, 0.5747, 0.2940



1.1304, 0.5427, 0.2763

Previews

White Background



This preview shows how the Yxy color 12.6688, 0.1605, 0.0979 looks on a white background.

Color Contrast Check

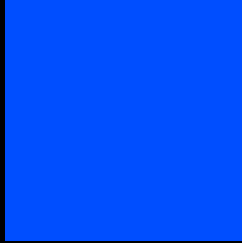
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.6688, 0.1605, 0.0979 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

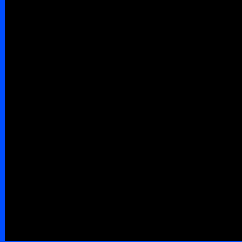
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.6688, 0.1605, 0.0979

Background



This preview shows how black text looks on a background with the Yxy color 12.6688, 0.1605, 0.0979.



This preview shows how white text looks on a background with the Yxy color 12.6688, 0.1605, 0.0979.

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

12.6688, 0.1605, 0.0979

Protanopia

12.4015, 0.1744, 0.1478

Deuteranopia

12.4430, 0.1867, 0.1919



Tritanopia

12.4128, 0.2204, 0.3135

Trichromacy



Original Color

12.6688, 0.1605, 0.0979

Protanomaly

12.3652, 0.1681, 0.1250

Deuteranomaly

12.0930, 0.1733, 0.1438

Tritanomaly

11.5254, 0.1858, 0.1888

Monochromacy



Original Color

12.6688, 0.1605, 0.0979

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 12.6688, 0.1605, 0.0979 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, 78, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 78, 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, 78, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 78, 255) }
```

Border

The CSS property to change the border of an element to Yxy 12.6688, 0.1605, 0.0979 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, 78, 255) }
```

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

```
.border{ border-color:rgb(0, 78, 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, 78, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 78, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 78, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 78, 255)  
}
```

Background

The CSS property to change the background color of an element to Yxy 12.6688, 0.1605, 0.0979 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 78, 255) }
```

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

```
.background{ background-color: rgb(0, 78,  
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](#).

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