

Converting Colors

$Y_{xy}(19.8150, 0.1790, 0.1645)$

Have a look what the booklet for
Yxy(19.8150, 0.1790, 0.1645)
contains.

Yxy(19.7453, 0.1789, 0.1641)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(19.7453, 0.1789, 0.1641)

Conversions

Conversions Part 1

Format	Color
Hex	007AE8
RGB	0, 122, 232
RGB Percent	0%, 48%, 91%
CMY	1.0000, 0.5216, 0.0900
CMYK	1.00, 0.47, 0.00, 0.09
HSL	208°, 100%, 45%
HSV	208°, 100%, 91%
XYZ	21.5261, 19.7453, 79.0534
YIQ	98.0620, -108.0220, 8.3460

Conversions

Conversions Part 2

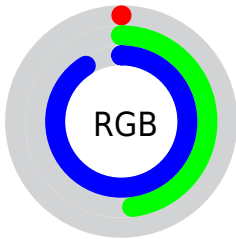
Format	Color
R _{YB}	0, 80, 232
Decimal	31464
CIE Lab	51.55, 13.62, -63.29
CIE LCh	52, 64.743, 282.144
Yxy	19.7453, 0.1789, 0.1641
Android (android.graphics.Color)	4278221544 (0xFF007AE8)
YUV	98.0620, 66.0314, -86.0004
Hunter-Lab	44.4357, 8.7088, -74.3750

Details

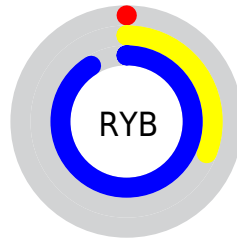
The Yxy color **19.7453, 0.1789, 0.1641** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **28.3245, 0.5505, 0.4011**, and the grayscale version is **12.0850, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.5563, 0.2173, 0.2252**, and **8.1273, 0.1710, 0.1355** is the 20% darker color. If you saturate the color by 10%, you get **19.7482, 0.1789, 0.1641**, and if you desaturate by 10%, it is **22.7900, 0.1856, 0.1814**.

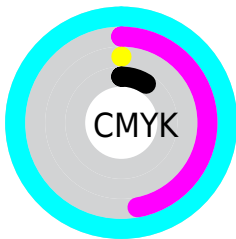
Distribution



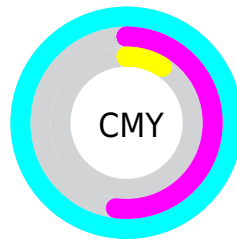
- Red (0%)
- Green (48%)
- Blue (91%)



- Red (0%)
- Yellow (31%)
- Blue (91%)



- Cyan (100%)
- Magenta (47%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (52%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 19.7453, 0.1789, 0.1641 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 19.7453, 0.1789, 0.1641 by changing the saturation by 10% instead.

■ 19.7453, 0.1789,
0.1641

■ 19.7453, 0.1789,
0.1641

■ 250.5329, 0.2491,
0.2469

■ 12.2100, 0.1617,
0.1449

■ 42.9897, 0.2045,
0.1934

■ 6.8869, 0.1404,
0.1218

■ 59.4677, 0.2141,
0.2047

■ 3.3915, 0.1139,
0.0940

■ 79.6954, 0.2223,
0.2144

■ 1.3394, 0.0816,
0.0620

■ 104.0571, 0.2292,
0.2227

■ 0.1714, 0.0419,
0.0145

■ 132.9374, 0.2352,
0.2300

■ 0.0000, 0.0000,
0.0000

166.7205, 0.2405,

0.2363

205.7909, 0.2450,
0.2419

■ 19.7453, 0.1789,
0.1641

■ 19.7453, 0.1789,
0.1641

■ 19.7482, 0.1789,
0.1641

■ 22.7900, 0.1856,
0.1814

■ 26.3687, 0.1944,
0.1995

■ 30.5640, 0.2055,
0.2181

■ 35.4257, 0.2186,
0.2368

■ 40.9967, 0.2332,
0.2549

■ 47.3154, 0.2488,
0.2723

■ 54.4168, 0.2650,
0.2884

■ 62.3333, 0.2812,
0.3033

■ 71.0950, 0.2972,
0.3169

Harmonies

Analogous

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



19.7453, 0.1358, 0.1766



19.7453, 0.1789, 0.1641



19.7453, 0.2619, 0.1815

Triad

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



19.7453, 0.1789, 0.1641



19.7453, 0.5422, 0.3609



19.7453, 0.2231, 0.4791

Complementary

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



19.7453, 0.1789, 0.1641



28.3245, 0.5505, 0.4011

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.



19.7453, 0.3240, 0.5536



19.7453, 0.1789, 0.1641



19.7453, 0.5099, 0.4401

Square

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



19.7453, 0.1789, 0.1641



19.7453, 0.4950, 0.2886



19.7453, 0.4272, 0.5190



19.7453, 0.1533, 0.3364

Rectangle

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



19.7453, 0.1789, 0.1641



19.7453, 0.3389, 0.2081



19.7453, 0.4272, 0.5190



19.7453, 0.2548, 0.5169

Sweetspot

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



19.7482, 0.1789, 0.1641



67.2619, 0.2647, 0.2882



58.8272, 0.2762, 0.5143



13.5744, 0.2579, 0.2815



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.



19.7482, 0.1789, 0.1641



24.2897, 0.1787, 0.1633



5.9966, 0.1504, 0.0616



15.1351, 0.2981, 0.3176



11.2131, 0.1797, 0.1669



1.0144, 0.1868, 0.1923

Inverse Universe

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



18.5685, 0.4879, 0.2462



22.9832, 0.4890, 0.2467



70.6413, 0.4253, 0.5005



14.4940, 0.3210, 0.3167



10.3297, 0.4845, 0.2443



0.7821, 0.4541, 0.2275

Previews

White Background



This preview shows how the Yxy color 19.7453, 0.1789, 0.1641 looks on a white background.

Color Contrast Check

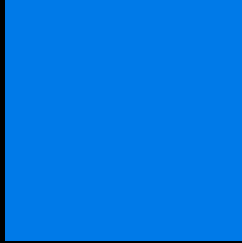
Large Text (above 18pt) WCAG AA ✓ Pass

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 19.7453, 0.1789, 0.1641 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

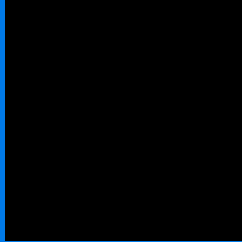
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

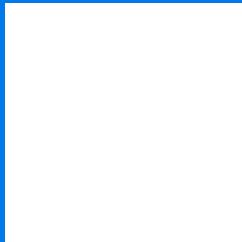
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 19.7453, 0.1789, 0.1641

Background



This preview shows how black text looks on a background with the Yxy color 19.7453, 0.1789, 0.1641.



This preview shows how white text looks on a background with the Yxy color 19.7453, 0.1789, 0.1641.

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

19.7453, 0.1789, 0.1641

Protanopia

19.8851, 0.1915, 0.1676

Deuteranopia

19.7817, 0.1834, 0.1804



Tritanopia

19.6527, 0.2194, 0.3099

Trichromacy



Original Color

19.7453, 0.1789, 0.1641

Protanomaly

19.5615, 0.1844, 0.1656

Deuteranomaly

19.7971, 0.1817, 0.1741

Tritanomaly

19.4069, 0.2008, 0.2427

Monochromacy



Original Color

19.7453, 0.1789, 0.1641

Achromatopsia

12.2139, 0.3127, 0.3290

Achromatomaly

13.6461, 0.2245, 0.2448

CSS Examples

Text

The CSS property to change the color of the text to Yxy 19.7453, 0.1789, 0.1641 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, 122, 232)` looks like.

```
.text, #text, p{  
    color:rgb(0, 122, 232)  
}
```

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, 122, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 122, 232) }
```

Border

The CSS property to change the border of an element to Yxy 19.7453, 0.1789, 0.1641 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, 122, 232) }
```

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

```
.border{ border-color:rgb(0, 122, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 122, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 122, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 122, 232);  
box-shadow:4px 4px 4px 4px rgb(0, 122,  
232) }
```


Background

The CSS property to change the background color of an element to Yxy 19.7453, 0.1789, 0.1641 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 122, 232) }
```

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

```
.background{ background-color: rgb(0, 122,  
232) }
```

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