

Converting Colors

$Y_{xy}(31.7793, 0.2156, 0.2158)$

Have a look what the booklet for
Yxy(31.7793, 0.2156, 0.2158)
contains.

Yxy(31.7640, 0.2154, 0.2156)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(31.7640, 0.2154, 0.2156)

Conversions

Conversions Part 1

Format	Color
Hex	629AEC
RGB	98, 154, 236
RGB Percent	38%, 60%, 93%
CMY	0.6157, 0.3961, 0.0744
CMYK	0.58, 0.35, 0.00, 0.07
HSL	216°, 78%, 65%
HSV	216°, 58%, 93%
XYZ	31.7345, 31.7640, 83.8299
YIQ	146.6040, -59.6980, 13.6300

Conversions

Conversions Part 2

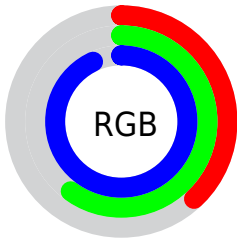
Format	Color
R _Y B	98, 138, 236
Decimal	6462188
CIE Lab	63.15, 5.72, -46.84
CIE LCh	63, 47.193, 276.960
Yxy	31.7640, 0.2154, 0.2156
Android (android.graphics.Color)	4284652268 (0xFF629AEC)
YUV	146.6040, 44.0722, -42.6257
Hunter-Lab	56.3596, 1.8793, -48.7369

Details

The Yxy color **31.7640, 0.2154, 0.2156** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **51.3685, 0.4314, 0.4171**, and the grayscale version is **28.8399, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.6009, 0.2515, 0.2740**, and **13.1900, 0.1879, 0.1840** is the 20% darker color. If you saturate the color by 10%, you get **26.2776, 0.2003, 0.1923**, and if you desaturate by 10%, it is **38.1805, 0.2319, 0.2385**.

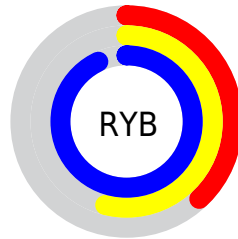
Distribution



Red (38%)

Green (60%)

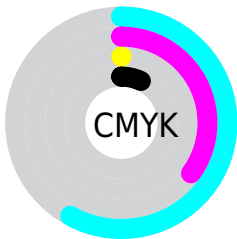
Blue (93%)



Red (38%)

Yellow (54%)

Blue (93%)

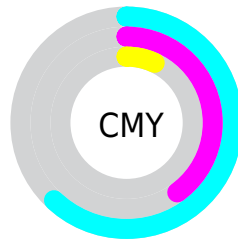


Cyan (58%)

Magenta (35%)

Yellow (0%)

Black (7%)



Cyan (62%)

Magenta (40%)

Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7640, 0.2154, 0.2156 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 31.7640, 0.2154, 0.2156 by changing the saturation by 10% instead.

■ 31.7640, 0.2154,
0.2156

■ 31.7640, 0.2154,
0.2156

■ 310.0428, 0.2647,
0.2721

■ 21.1813, 0.2033,
0.2021

■ 62.4409, 0.2332,
0.2358

■ 13.2566, 0.1881,
0.1852

■ 83.3040, 0.2400,
0.2435

■ 7.6055, 0.1686,
0.1638

■ 108.3625, 0.2457,
0.2501

■ 3.8436, 0.1430,
0.1362

■ 138.0011, 0.2506,
0.2557

■ 1.5864, 0.1093,
0.1006

■ 172.6040, 0.2549,
0.2606

■ 0.3484, 0.0607,
0.0450

■ 212.5557, 0.2586,

■ 0.0000, 0.0000,

0.2649

0.0000

258.2405, 0.2618,
0.2687

■ 31.7640, 0.2154,
0.2156

■ 31.7640, 0.2154,
0.2156

■ 26.2776, 0.2003,
0.1923

■ 38.1805, 0.2319,
0.2385

■ 21.6643, 0.1873,
0.1694

■ 45.5724, 0.2491,
0.2604

■ 17.8642, 0.1768,
0.1477


■ 53.9854, 0.2664,
0.2807


■ 14.7966, 0.1692,
0.1281

■ 63.4610, 0.2833,
0.2994

■ 14.3798, 0.1681,
0.1252

■ 74.0380, 0.2996,
0.3162

 85.7535, 0.3150,
0.3312

 97.0512, 0.3240,
0.3446

 98.8373, 0.3238,
0.3473

Harmonies

Analogous

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



31.7640, 0.1871, 0.2326



31.7640, 0.2154, 0.2156



31.7640, 0.2701, 0.2236

Triad

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



31.7640, 0.2154, 0.2156



31.7640, 0.4579, 0.3518



31.7640, 0.2705, 0.4282

Complementary

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



31.7640, 0.2154, 0.2156



51.3685, 0.4314, 0.4171

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.



31.7640, 0.3415, 0.4662



31.7640, 0.2154, 0.2156



31.7640, 0.4529, 0.4068

Square

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



31.7640, 0.2154, 0.2156



31.7640, 0.4167, 0.2980



31.7640, 0.4085, 0.4521



31.7640, 0.2147, 0.3519

Rectangle

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



31.7640, 0.2154, 0.2156



31.7640, 0.3184, 0.2410



31.7640, 0.4085, 0.4521



31.7640, 0.2934, 0.4467

Sweetspot

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



31.7651, 0.2154, 0.2156



76.1247, 0.2840, 0.3001



65.8339, 0.2666, 0.4069



15.5555, 0.2791, 0.2949



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.



31.7651, 0.2154, 0.2156



30.2481, 0.1978, 0.1881



18.0756, 0.2063, 0.1441



15.5524, 0.2980, 0.3146



8.1639, 0.1690, 0.1282



0.8256, 0.1766, 0.1556

Inverse Universe

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



28.9046, 0.4168, 0.2689



28.6656, 0.4509, 0.2623



76.8144, 0.3872, 0.4713



15.1554, 0.3229, 0.3195



10.3170, 0.5351, 0.2722



0.8288, 0.4988, 0.2521

Previews

White Background



This preview shows how the Yxy color 31.7640, 0.2154, 0.2156 looks on a white background.

Color Contrast Check

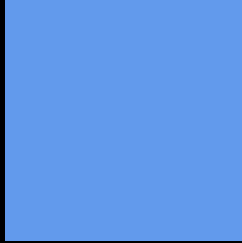
Large Text (above 18pt) WCAG AA × Fail

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 31.7640, 0.2154, 0.2156 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

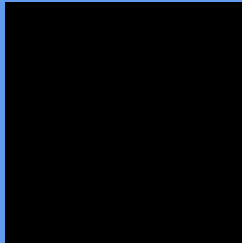
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

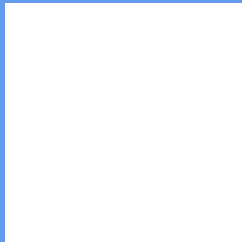
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.7640, 0.2154, 0.2156

Background



This preview shows how black text looks on a background with the Yxy color 31.7640, 0.2154, 0.2156.



This preview shows how white text looks on a background with the Yxy color 31.7640, 0.2154, 0.2156.

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

31.7640, 0.2154, 0.2156

Protanopia

31.5320, 0.2298, 0.2164

Deuteranopia

31.7007, 0.2199, 0.2142



Tritanopia

31.6208, 0.2359, 0.3055

Trichromacy



Original Color

31.7640, 0.2154, 0.2156

Protanomaly

31.5938, 0.2244, 0.2167

Deuteranomaly

31.7817, 0.2181, 0.2150

Tritanomaly

31.4989, 0.2275, 0.2680

Monochromacy



Original Color

31.7640, 0.2154, 0.2156

Achromatopsia

29.1771, 0.3127, 0.3290

Achromatomaly

29.7345, 0.2683, 0.2839

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.7640, 0.2154, 0.2156 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(98, 154, 236)` looks like.

```
.text, #text, p{  
    color:rgb(98, 154, 236)  
}
```

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(98, 154, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 154, 236) }
```

Border

The CSS property to change the border of an element to Yxy 31.7640, 0.2154, 0.2156 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(98, 154, 236) }
```

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

```
.border{ border-color:rgb(98, 154, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(98, 154, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 154, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 154, 236);  
box-shadow:4px 4px 4px 4px rgb(98, 154,  
236) }
```


Background

The CSS property to change the background color of an element to Yxy 31.7640, 0.2154, 0.2156 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 154, 236) }
```

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

```
.background{ background-color: rgb(98, 154,  
236) }
```

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