

Converting Colors

$Y_{xy}(31.8256, 0.2084, 0.1927)$

Have a look what the booklet for
Yxy(31.8256, 0.2084, 0.1927)
contains.

Yxy(31.8575, 0.2084, 0.1928)	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(31.8575, 0.2084, 0.1928)

Conversions

Conversions Part 1

Format	Color
Hex	6696FF
RGB	102, 150, 255
RGB Percent	40%, 59%, 100%
CMY	0.6000, 0.4118, 0.0000
CMYK	0.60, 0.41, 0.00, 0.00
HSL	221°, 100%, 70%
HSV	221°, 60%, 100%
XYZ	34.4352, 31.8575, 98.9433
YIQ	147.6180, -62.3130, 22.4790

Conversions

Conversions Part 2

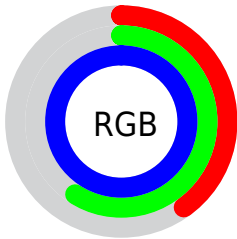
Format	Color
R _Y B	102, 139, 255
Decimal	6723327
CIE Lab	63.22, 14.96, -57.12
CIE LCh	63, 59.050, 284.673
Yxy	31.8575, 0.2084, 0.1928
Android (android.graphics.Color)	4284913407 (0xFF6696FF)
YUV	147.6180, 52.9393, -40.0070
Hunter-Lab	56.4424, 10.1274, -64.4253

Details

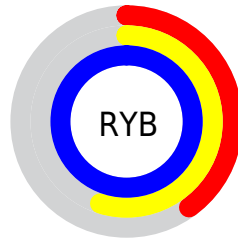
The Yxy color **31.8575, 0.2084, 0.1928** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **66.8421, 0.4261, 0.4318**, and the grayscale version is **29.2429, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.1923, 0.2536, 0.2695**, and **13.3510, 0.1801, 0.1597** is the 20% darker color. If you saturate the color by 10%, you get **25.4165, 0.1924, 0.1664**, and if you desaturate by 10%, it is **39.5922, 0.2260, 0.2194**.

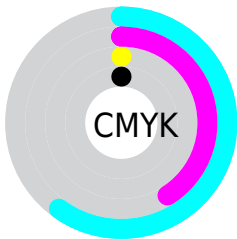
Distribution



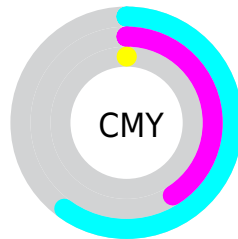
- Red (40%)
- Green (59%)
- Blue (100%)



- Red (40%)
- Yellow (55%)
- Blue (100%)



- Cyan (60%)
- Magenta (41%)
- Yellow (0%)
- Black (0%)




- Cyan (60%)
- Magenta (41%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.8575, 0.2084, 0.1928 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 31.8575, 0.2084, 0.1928 by changing the saturation by 10% instead.

 31.8575, 0.2084,
0.1928


 31.8575, 0.2084,
0.1928


310.4696, 0.2609,
0.2583

 21.2527, 0.1958,
0.1779


 62.5876, 0.2272,
0.2156

 13.3088, 0.1802,
0.1598


 83.4817, 0.2344,
0.2245

 7.6416, 0.1605,
0.1376


 108.5744, 0.2405,
0.2321

 3.8665, 0.1353,
0.1104

138.2500, 0.2457,
0.2387

 1.5991, 0.1031,
0.0775

172.8929, 0.2503,
0.2445

 0.3570, 0.0636,
0.0322

212.8875, 0.2542,

 0.0000, 0.0000,

0.2497

0.0000

258.6183, 0.2578,
0.2542

■ 31.8575, 0.2084,
0.1928

■ 31.8575, 0.2084,
0.1928

■ 25.4165, 0.1924,
0.1664

■ 39.5922, 0.2260,
0.2194

■ 20.1863, 0.1788,
0.1413

■ 48.6907, 0.2443,
0.2451

■ 16.0762, 0.1683,
0.1188

■ 59.2204, 0.2626,
0.2692

■ 12.9585, 0.1611,
0.0998

■ 71.2434, 0.2803,
0.2913

■ 84.8178, 0.2971,
0.3113

99.9985, 0.3127,
0.3290

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



31.8575, 0.1678, 0.2031



31.8575, 0.2084, 0.1928



31.8575, 0.2809, 0.2095

Triad

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



31.8575, 0.2084, 0.1928



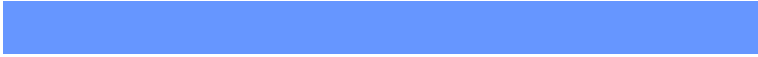
31.8575, 0.4961, 0.3686



31.8575, 0.2384, 0.4336

Complementary

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



31.8575, 0.2084, 0.1928



66.8421, 0.4261, 0.4318

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.



31.8575, 0.3212, 0.4985



31.8575, 0.2084, 0.1928



31.8575, 0.4720, 0.4343

Square

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



31.8575, 0.2084, 0.1928



31.8575, 0.4608, 0.3048



31.8575, 0.4063, 0.4889



31.8575, 0.1808, 0.3294

Rectangle

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



31.8575, 0.2084, 0.1928



31.8575, 0.3432, 0.2336



31.8575, 0.4063, 0.4889



31.8575, 0.2642, 0.4629

Sweetspot

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



31.8584, 0.2084, 0.1928



73.8336, 0.2837, 0.2955



78.8276, 0.2590, 0.3893



15.0016, 0.2787, 0.2894



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.



31.8584, 0.2084, 0.1928



24.2768, 0.1894, 0.1612



21.4719, 0.2126, 0.1426



18.3076, 0.2979, 0.3122



7.0050, 0.1619, 0.1026



0.8677, 0.1680, 0.1248

Inverse Universe

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



32.9644, 0.4403, 0.2818



27.4027, 0.4823, 0.2784



88.8020, 0.3781, 0.4809



18.0810, 0.3245, 0.3216



11.4351, 0.5719, 0.2924



1.1321, 0.5399, 0.2748

Previews

White Background



This preview shows how the Yxy color 31.8575, 0.2084, 0.1928 looks on a white background.

Color Contrast Check

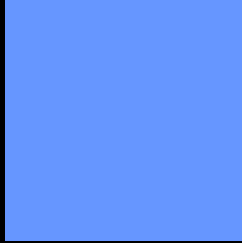
Large Text (above 18pt) WCAG AA × Fail

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 31.8575, 0.2084, 0.1928 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

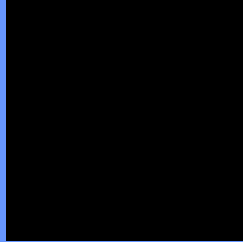
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

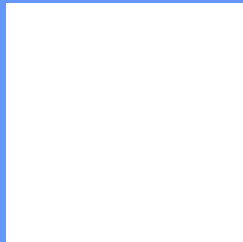
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.8575, 0.2084, 0.1928

Background



This preview shows how black text looks on a background with the Yxy color 31.8575, 0.2084, 0.1928.



This preview shows how white text looks on a background with the Yxy color 31.8575, 0.2084, 0.1928.

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

31.8575, 0.2084, 0.1928

Protanopia

31.9019, 0.2119, 0.1934

Deuteranopia

31.8230, 0.2022, 0.1953



Tritanopia

31.7967, 0.2330, 0.3055

Trichromacy



Original Color

31.8575, 0.2084, 0.1928

Protanomaly

31.7148, 0.2104, 0.1930

Deuteranomaly

31.8364, 0.2046, 0.1948

Tritanomaly

31.3521, 0.2222, 0.2567

Monochromacy



Original Color

31.8575, 0.2084, 0.1928

Achromatopsia

29.6138, 0.3127, 0.3290

Achromatomaly

29.9080, 0.2638, 0.2713

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.8575, 0.2084, 0.1928 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(102, 150, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 150, 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(102, 150, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 150, 255) }
```

Border

The CSS property to change the border of an element to Yxy 31.8575, 0.2084, 0.1928 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(102, 150, 255) }
```

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

```
.border{ border-color:rgb(102, 150, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 150, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 150, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 150, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 150,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 31.8575, 0.2084, 0.1928 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 150, 255) }
```

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

```
.background{ background-color: rgb(102,  
150, 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