

Converting Colors

$Y_{xy}(31.6532, 0.1929, 0.1954)$

Have a look what the booklet for
Yxy(31.6532, 0.1929, 0.1954)
contains.

Yxy(31.6750, 0.1929, 0.1955)	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(31.6750, 0.1929, 0.1955)

Conversions

Conversions Part 1

Format	Color
Hex	329CFF
RGB	50, 156, 255
RGB Percent	20%, 61%, 100%
CMY	0.8041, 0.3882, 0.0000
CMYK	0.80, 0.39, 0.00, 0.00
HSL	209°, 100%, 60%
HSV	209°, 80%, 100%
XYZ	31.2537, 31.6750, 99.0917
YIQ	135.5920, -94.9550, 8.3170

Conversions

Conversions Part 2

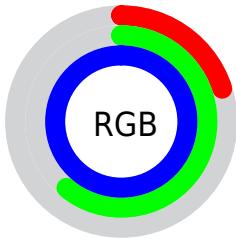
Format	Color
R _Y B	50, 120, 255
Decimal	3316991
CIE Lab	63.07, 4.28, -57.48
CIE LCh	63, 57.641, 274.255
Yxy	31.6750, 0.1929, 0.1955
Android (android.graphics.Color)	4281507071 (0xFF329CFF)
YUV	135.5920, 58.8681, -75.0642
Hunter-Lab	56.2805, 0.6338, -64.9940

Details

The Yxy color **31.6750, 0.1929, 0.1955** is a light color, and the websafe version is hex **3399FF**. The color can be described as light washed azure. A complement of this color would be **42.9662, 0.5051, 0.4129**, and the grayscale version is **24.2574, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.8252, 0.2365, 0.2743**, and **14.3853, 0.1803, 0.1690** is the 20% darker color. If you saturate the color by 10%, you get **27.2730, 0.1842, 0.1771**, and if you desaturate by 10%, it is **36.8551, 0.2040, 0.2146**.

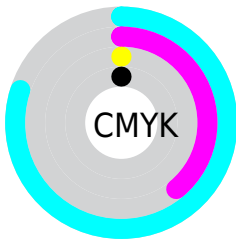
Distribution



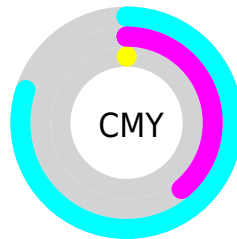
- Red (20%)
- Green (61%)
- Blue (100%)



- Red (20%)
- Yellow (47%)
- Blue (100%)



- Cyan (80%)
- Magenta (39%)
- Yellow (0%)
- Black (0%)





- Cyan (80%)
- Magenta (39%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.6750, 0.1929, 0.1955 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 31.6750, 0.1929, 0.1955 by changing the saturation by 10% instead.


 31.6750, 0.1929,
0.1955


 31.6750, 0.1929,
0.1955

309.6361, 0.2522,
0.2607


 21.1134, 0.1790,
0.1805


 62.3012, 0.2139,
0.2184

 13.2069, 0.1620,
0.1621


 83.1347, 0.2220,
0.2273

 7.5712, 0.1408,
0.1395


 108.1608, 0.2289,
0.2349

 3.8218, 0.1144,
0.1117

 137.7640, 0.2348,
0.2414

 1.5744, 0.0820,
0.0780

172.3288, 0.2400,
0.2472

 0.3402, 0.0396,
0.0315

212.2395, 0.2446,

 0.0000, 0.0000,

0.2522

0.0000

257.8804, 0.2486,
0.2567

■ 31.6750, 0.1929,
0.1955

■ 31.6750, 0.1929,
0.1955

■ 27.2730, 0.1842,
0.1771

■ 36.8551, 0.2040,
0.2146

■ 23.6929, 0.1779,
0.1603

■ 42.8788, 0.2172,
0.2336

■ 49.8010, 0.2319,
0.2523

■ 57.6708, 0.2477,
0.2701

■ 66.5330, 0.2640,
0.2868

■ 76.4292, 0.2804,
0.3021

■ 87.3979, 0.2965,
0.3160

■ 99.4756, 0.3121,
0.3285

■ 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.



31.6750, 0.1635, 0.2163



31.6750, 0.1929, 0.1955



31.6750, 0.2536, 0.2031

Triad

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



31.6750, 0.1929, 0.1955



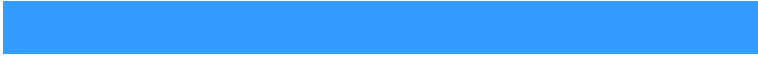
31.6750, 0.4871, 0.3461



31.6750, 0.2666, 0.4606

Complementary

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



31.6750, 0.1929, 0.1955



42.9662, 0.5051, 0.4129

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.



31.6750, 0.3514, 0.4990



31.6750, 0.1929, 0.1955



31.6750, 0.4830, 0.4108

Square

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



31.6750, 0.1929, 0.1955



31.6750, 0.4326, 0.2852



31.6750, 0.4305, 0.4704



31.6750, 0.1993, 0.3649

Rectangle

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



31.6750, 0.1929, 0.1955



31.6750, 0.3100, 0.2218



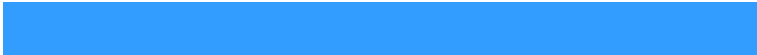
31.6750, 0.4305, 0.4704



31.6750, 0.2941, 0.4819

Sweetspot

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



31.6746, 0.1929, 0.1955



72.7590, 0.2745, 0.2968



74.2607, 0.2713, 0.4771



14.8218, 0.2686, 0.2913



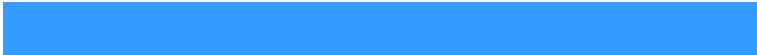
0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.6746, 0.1929, 0.1955



25.1246, 0.1803, 0.1672



10.8012, 0.1636, 0.0849



18.9319, 0.2979, 0.3172



12.6808, 0.1787, 0.1632



1.4535, 0.1842, 0.1833

Inverse Universe

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



25.9368, 0.4470, 0.2397



23.2823, 0.4836, 0.2456



88.7260, 0.4183, 0.4920



18.1440, 0.3213, 0.3168



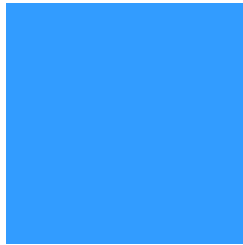
12.0081, 0.4891, 0.2468



1.1913, 0.4647, 0.2333

Previews

White Background



This preview shows how the Yxy color 31.6750, 0.1929, 0.1955 looks on a white background.

Color Contrast Check

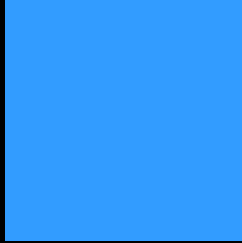
Large Text (above 18pt) WCAG AA × Fail

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 31.6750, 0.1929, 0.1955 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

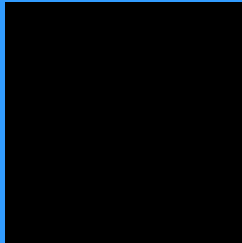
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

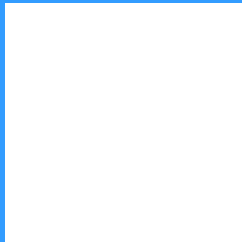
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 31.6750, 0.1929, 0.1955

Background



This preview shows how black text looks on a background with the Yxy color 31.6750, 0.1929, 0.1955.



This preview shows how white text looks on a background with the Yxy color 31.6750, 0.1929, 0.1955.

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

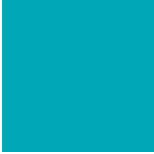
31.6750, 0.1929, 0.1955

Protanopia

31.4019, 0.2156, 0.1979

Deuteranopia

31.6647, 0.2000, 0.1939



Tritanopia

31.3415, 0.2185, 0.3065

Trichromacy



Original Color

31.6750, 0.1929, 0.1955

Protanomaly

31.2221, 0.2045, 0.1959

Deuteranomaly

31.5601, 0.1968, 0.1941

Tritanomaly

31.2336, 0.2067, 0.2591

Monochromacy



Original Color

31.6750, 0.1929, 0.1955

Achromatopsia

24.6201, 0.3127, 0.3290

Achromatomaly

25.9029, 0.2475, 0.2696

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.6750, 0.1929, 0.1955 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(50, 156, 255)` looks like.

```
.text, #text, p{  
    color:rgb(50, 156, 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(50, 156, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 156, 255) }
```

Border

The CSS property to change the border of an element to Yxy 31.6750, 0.1929, 0.1955 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(50, 156, 255) }
```

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

```
.border{ border-color:rgb(50, 156, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 156, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 156, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 156, 255);  
box-shadow:4px 4px 4px 4px rgb(50, 156,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 31.6750, 0.1929, 0.1955 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 156, 255) }
```

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

```
.background{ background-color: rgb(50, 156,  
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