

Converting Colors

$Y_{xy}(31.0586, 0.2502, 0.1800)$

Have a look what the booklet for
Yxy(31.0586, 0.2502, 0.1800)
contains.

Yxy(31.0012, 0.2498, 0.1798)	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(31.0012, 0.2498, 0.1798)

Conversions

Conversions Part 1

Format	Color
Hex	AF7DFF
RGB	175, 125, 255
RGB Percent	69%, 49%, 100%
CMY	0.3136, 0.5099, 0.0000
CMYK	0.31, 0.51, 0.00, 0.00
HSL	263°, 100%, 75%
HSV	263°, 51%, 100%
XYZ	43.0706, 31.0012, 98.3486
YIQ	154.7700, -11.9300, 51.0300

Conversions

Conversions Part 2

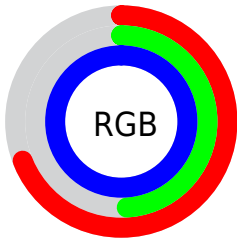
Format	Color
R _{YB}	175, 125, 255
Decimal	11501055
CIE Lab	62.51, 45.65, -57.97
CIE LCh	63, 73.785, 308.218
Yxy	31.0012, 0.2498, 0.1798
Android (android.graphics.Color)	4289691135 (0xFFAF7DFF)
YUV	154.7700, 49.4134, 17.7417
Hunter-Lab	55.6787, 40.6421, -65.7523

Details

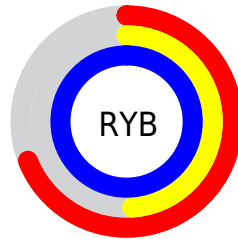
The Yxy color **31.0012, 0.2498, 0.1798** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **85.9736, 0.3528, 0.4693**, and the grayscale version is **32.4523, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.7838, 0.2992, 0.2506**, and **12.7803, 0.2298, 0.1469** is the 20% darker color. If you saturate the color by 10%, you get **23.6415, 0.2340, 0.1498**, and if you desaturate by 10%, it is **40.2266, 0.2650, 0.2113**.

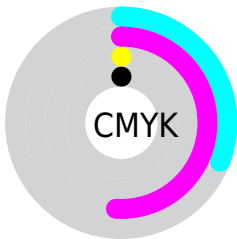
Distribution



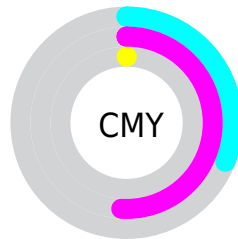
- Red (69%)
- Green (49%)
- Blue (100%)



- Red (69%)
- Yellow (49%)
- Blue (100%)



- Cyan (31%)
- Magenta (51%)
- Yellow (0%)
- Black (0%)



- Cyan (31%)
- Magenta (51%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 31.0012, 0.2498, 0.1798 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 31.0012, 0.2498, 0.1798 by changing the saturation by 10% instead.

 31.0012, 0.2498,
0.1798


 31.0012, 0.2498,
0.1798


306.5438, 0.2838,
0.2487

 20.5998, 0.2410,
0.1647


 61.2420, 0.2625,
0.2033

 12.8318, 0.2297,
0.1467


 81.8501, 0.2672,
0.2126

 7.3128, 0.2148,
0.1249

 106.6292, 0.2711,
0.2206

 3.6585, 0.1946,
0.0988

135.9637, 0.2744,
0.2277

 1.4844, 0.1665,
0.0679

170.2381, 0.2773,
0.2339

 0.2777, 0.1287,
0.0238

209.8366, 0.2798,

 0.0000, 0.0588,

0.2394


0.0000

255.1437, 0.2819,
0.2443


 0.0000, 0.0000,
0.0000


 31.0012, 0.2498,
0.1798


 31.0012, 0.2498,
0.1798


 23.6415, 0.2340,
0.1498


 40.2266, 0.2650,
0.2113


 18.0137, 0.2182,
0.1231


 51.4432, 0.2789,
0.2427


 13.9606, 0.2034,
0.1013

 64.7621, 0.2915,
0.2728

 11.2956, 0.1902,
0.0857

 80.2866, 0.3024,
0.3009

 9.8248, 0.1802,
0.0766

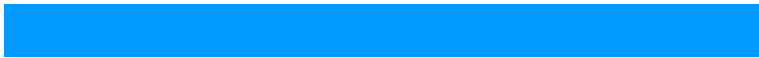
 98.1132, 0.3119,
0.3266

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.



31.0012, 0.1733, 0.1663



31.0012, 0.2498, 0.1798



31.0012, 0.3636, 0.2200

Triad

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



31.0012, 0.2498, 0.1798



31.0012, 0.5148, 0.4289



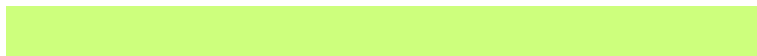
31.0012, 0.1624, 0.3544

Complementary

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



31.0012, 0.2498, 0.1798



85.9736, 0.3528, 0.4693

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.



31.0012, 0.2369, 0.4914



31.0012, 0.2498, 0.1798



31.0012, 0.4386, 0.5074

Square

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



31.0012, 0.2498, 0.1798



31.0012, 0.5370, 0.3516



31.0012, 0.3383, 0.5498



31.0012, 0.1305, 0.2413

Rectangle

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



31.0012, 0.2498, 0.1798



31.0012, 0.4446, 0.2589



31.0012, 0.3383, 0.5498



31.0012, 0.1827, 0.4018

Sweetspot

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



31.0002, 0.2498, 0.1798



73.7845, 0.2982, 0.2899



55.3184, 0.2343, 0.2680



15.0933, 0.2959, 0.2839



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.



31.0002, 0.2498, 0.1798



23.6328, 0.2340, 0.1498



40.3791, 0.3051, 0.2011



17.7185, 0.3039, 0.3049



5.2130, 0.1818, 0.0775



0.5682, 0.1943, 0.0844

Inverse Universe

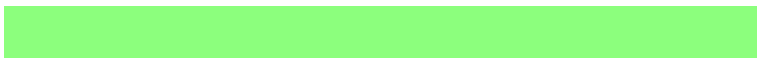
The Inverse Universe completely reimagines the original color for something new.



40.3291, 0.3672, 0.2485



34.2152, 0.3830, 0.2356



78.5890, 0.3128, 0.4887



18.1749, 0.3197, 0.3145



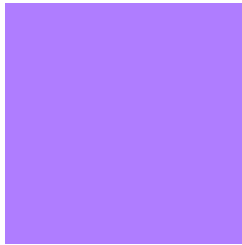
12.4083, 0.4482, 0.2243



1.2295, 0.4297, 0.2141

Previews

White Background



This preview shows how the Yxy color 31.0012, 0.2498, 0.1798 looks on a white background.

Color Contrast Check

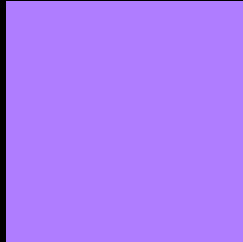
Large Text (above 18pt) WCAG AA × Fail

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 31.0012, 0.2498, 0.1798 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

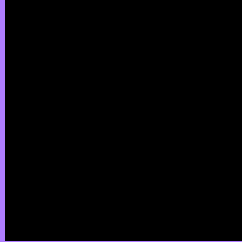
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.0012, 0.2498, 0.1798

Background



This preview shows how black text looks on a background with the Yxy color 31.0012, 0.2498, 0.1798.



This preview shows how white text looks on a background with the Yxy color 31.0012, 0.2498, 0.1798.

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

31.0012, 0.2498, 0.1798

Protanopia

31.4031, 0.2092, 0.1906

Deuteranopia

31.3707, 0.2052, 0.1989



Tritanopia

30.7858, 0.3095, 0.3109

Trichromacy



Original Color

31.0012, 0.2498, 0.1798



Protanomaly

30.7220, 0.2207, 0.1851



Deuteranomaly

30.3041, 0.2171, 0.1889



Tritanomaly

30.4828, 0.2849, 0.2529

Monochromacy



Original Color

31.0012, 0.2498, 0.1798



Achromatopsia

32.7778, 0.3127, 0.3290



Achromatomaly

31.3895, 0.2875, 0.2633

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.0012, 0.2498, 0.1798 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(175, 125, 255)` looks like.

```
.text, #text, p{  
    color:rgb(175, 125, 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(175, 125, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 125, 255) }
```

Border

The CSS property to change the border of an element to Yxy 31.0012, 0.2498, 0.1798 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(175, 125, 255) }
```

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

```
.border{ border-color:rgb(175, 125, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 125, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 125, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 125, 255);  
box-shadow:4px 4px 4px 4px rgb(175, 125,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 31.0012, 0.2498, 0.1798 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 125, 255) }
```

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

```
.background{ background-color: rgb(175,  
125, 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