

Converting Colors

$Y_{xy}(32.6900, 0.2373, 0.1693)$

Have a look what the booklet for
Yxy(32.6900, 0.2373, 0.1693)
contains.

Yxy(31.4290, 0.2478, 0.1821)	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(31.4290, 0.2478, 0.1821)

Conversions

Conversions Part 1

Format	Color
Hex	AC80FF
RGB	172, 128, 255
RGB Percent	67%, 50%, 100%
CMY	0.3257, 0.4979, 0.0001
CMYK	0.33, 0.50, 0.00, 0.00
HSL	261°, 100%, 75%
HSV	261°, 50%, 100%
XYZ	42.7683, 31.4290, 98.3947
YIQ	155.6340, -14.5430, 48.8250

Conversions

Conversions Part 2

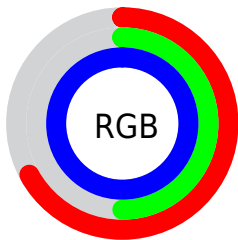
Format	Color
RYB	172, 128, 255
Decimal	11305215
CIELab	62.87, 43.20, -57.38
CIElCh	63, 71.823, 306.973
Yxy	31.4290, 0.2478, 0.1821
Android (android.graphics.Color)	4289495295 (0xFFAC80FF)
YUV	155.6340, 48.9874, 14.3530
Hunter-Lab	56.0616, 38.0665, -64.8179

Details

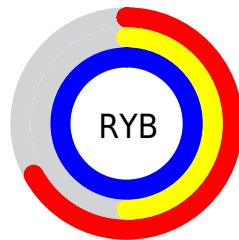
The Yxy color **31.4290, 0.2478, 0.1821** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **86.9197, 0.3555, 0.4644**, and the grayscale version is **32.8575, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.4989, 0.2969, 0.2532**, and **13.0298, 0.2267, 0.1483** is the 20% darker color. If you saturate the color by 10%, you get **23.8220, 0.2312, 0.1512**, and if you desaturate by 10%, it is **40.9461, 0.2637, 0.2142**.

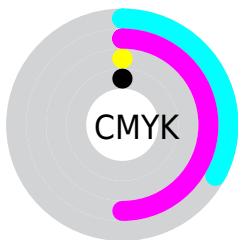
Distribution



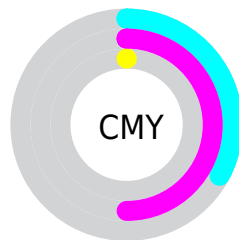
- Red (67%)
- Green (50%)
- Blue (100%)



- Red (67%)
- Yellow (50%)
- Blue (100%)



- Cyan (33%)
- Magenta (50%)
- Yellow (0%)
- Black (0%)





- Cyan (33%)
- Magenta (50%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.4290, 0.2478, 0.1821 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 31.4290, 0.2478, 0.1821 by changing the saturation by 10% instead.


 31.4290, 0.2478,
0.1821


 31.4290, 0.2478,
0.1821


308.5099, 0.2826,
0.2501

 20.9257, 0.2388,
0.1672


 61.9149, 0.2607,
0.2053

 13.0697, 0.2274,
0.1493


 82.6663, 0.2655,
0.2145

 7.4766, 0.2123,
0.1276


 107.6025, 0.2696,
0.2225

 3.7619, 0.1919,
0.1015

137.1079, 0.2730,
0.2294

 1.5413, 0.1638,
0.0705

171.5670, 0.2759,
0.2355

 0.3175, 0.1257,
0.0272

211.3641, 0.2785,

 0.0000, 0.0550,

0.2410

0.0000

256.8836, 0.2807,
0.2458

0.0000, 0.0000,
0.0000

31.4290, 0.2478,
0.1821

31.4290, 0.2478,
0.1821

23.8220, 0.2312,
0.1512

40.9461, 0.2637,
0.2142

17.9852, 0.2147,
0.1235

52.4924, 0.2784,
0.2459

13.7645, 0.1993,
0.1006

66.1813, 0.2915,
0.2761

10.9761, 0.1857,
0.0840

82.1165, 0.3030,
0.3041

9.3317, 0.1747,
0.0737

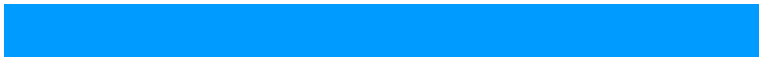
99.9981, 0.3127,
0.3290

■ 9.3020, 0.1745,
0.0735

Harmonies

Analogous

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



31.4290, 0.1744, 0.1700



31.4290, 0.2478, 0.1821



31.4290, 0.3574, 0.2206

Triad

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



31.4290, 0.2478, 0.1821



31.4290, 0.5124, 0.4248



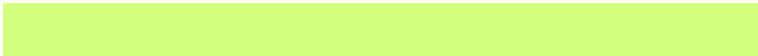
31.4290, 0.1687, 0.3596

Complementary

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



31.4290, 0.2478, 0.1821



86.9197, 0.3555, 0.4644

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.



31.4290, 0.2435, 0.4900



31.4290, 0.2478, 0.1821



31.4290, 0.4404, 0.5009

Square

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



31.4290, 0.2478, 0.1821



31.4290, 0.5300, 0.3492



31.4290, 0.3431, 0.5427



31.4290, 0.1352, 0.2477

Rectangle

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



31.4290, 0.2478, 0.1821



31.4290, 0.4361, 0.2584



31.4290, 0.3431, 0.5427



31.4290, 0.1892, 0.4053

Sweetspot

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



31.4302, 0.2478, 0.1821



73.5366, 0.2972, 0.2898



59.2276, 0.2376, 0.2778



15.0339, 0.2947, 0.2838



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.



31.4302, 0.2478, 0.1821



23.6833, 0.2309, 0.1506



40.1274, 0.2998, 0.2017



17.6832, 0.3033, 0.3048



4.9360, 0.1760, 0.0743



0.5385, 0.1883, 0.0811

Inverse Universe

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



41.4091, 0.3602, 0.2456



35.0308, 0.3743, 0.2314



79.4685, 0.3164, 0.4829



18.1874, 0.3191, 0.3136



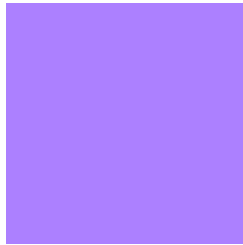
12.5921, 0.4326, 0.2157



1.2467, 0.4165, 0.2068

Previews

White Background



This preview shows how the Yxy color 31.4290, 0.2478, 0.1821 looks on a white background.

Color Contrast Check

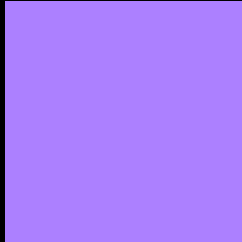
Large Text (above 18pt) WCAG AA × Fail

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 31.4290, 0.2478, 0.1821 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

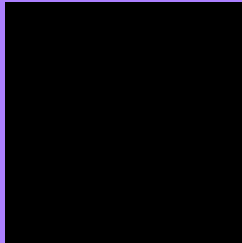
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.4290, 0.2478, 0.1821

Background



This preview shows how black text looks on a background with the Yxy color 31.4290, 0.2478, 0.1821.

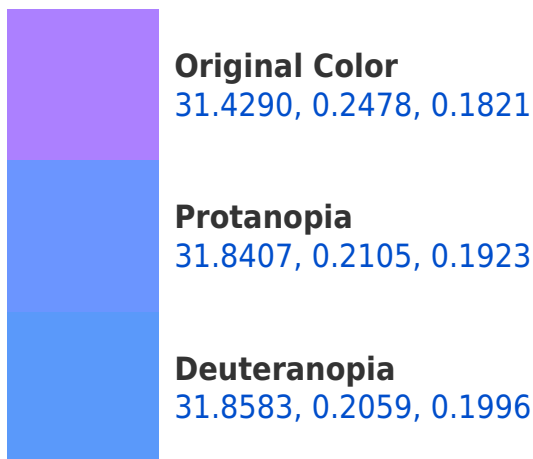


This preview shows how white text looks on a background with the Yxy color 31.4290, 0.2478, 0.1821.

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





Tritanopia

31.1936, 0.3046, 0.3108

Trichromacy



Original Color

31.4290, 0.2478, 0.1821



Protanomaly

31.0950, 0.2216, 0.1865



Deuteranomaly

30.9679, 0.2172, 0.1906



Tritanomaly

30.8051, 0.2814, 0.2539

Monochromacy



Original Color

31.4290, 0.2478, 0.1821



Achromatopsia

33.2452, 0.3127, 0.3290



Achromatomaly

32.0449, 0.2868, 0.2649

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.4290, 0.2478, 0.1821 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(172, 128, 255)` looks like.

```
.text, #text, p{  
    color:rgb(172, 128, 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(172, 128, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 128, 255) }
```

Border

The CSS property to change the border of an element to Yxy 31.4290, 0.2478, 0.1821 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(172, 128, 255) }
```

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

```
.border{ border-color:rgb(172, 128, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 128, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 128, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 128, 255);  
box-shadow:4px 4px 4px 4px rgb(172, 128,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 31.4290, 0.2478, 0.1821 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 128, 255) }
```

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

```
.background{ background-color: rgb(172,  
128, 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