

Converting Colors

$Y_{xy}(29.9764, 0.2228, 0.4371)$

Have a look what the booklet for
Yxy(29.9764, 0.2228, 0.4371)
contains.

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Color

Yxy(31.6772, 0.2525, 0.4288)

Conversions

Conversions Part 1

Format	Color
Hex	00AE7A
RGB	0, 174, 122
RGB Percent	0%, 68%, 48%
CMY	0.9981, 0.3177, 0.5216
CMYK	1.00, 0.00, 0.30, 0.32
HSL	162°, 99%, 34%
HSV	162°, 100%, 68%
XYZ	18.6532, 31.6772, 23.5437
YIQ	116.0460, -87.0120, -53.0600

Conversions

Conversions Part 2

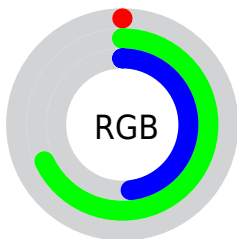
Format	Color
RYB	0, 102, 174
Decimal	44666
CIELab	63.08, -50.28, 16.29
CIELCh	63, 52.852, 162.043
Yxy	31.6772, 0.2525, 0.4288
Android (android.graphics.Color)	4278234746 (0xFF00AE7A)
YUV	116.0460, 2.9353, -101.7723
Hunter-Lab	56.2825, -39.3357, 14.5960

Details

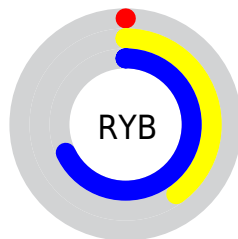
The Yxy color **31.6772, 0.2525, 0.4288** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **9.2607, 0.5745, 0.2941**, and the grayscale version is **17.5359, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.5741, 0.2653, 0.4066**, and **13.9140, 0.2605, 0.4576** is the 20% darker color. If you saturate the color by 10%, you get **31.6718, 0.2525, 0.4291**, and if you desaturate by 10%, it is **31.9355, 0.2514, 0.4176**.

Distribution



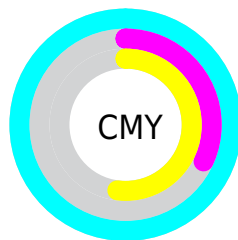
- Red (0%)
- Green (68%)
- Blue (48%)



- Red (0%)
- Yellow (40%)
- Blue (68%)



- Cyan (100%)
- Magenta (0%)
- Yellow (30%)
- Black (32%)




- Cyan (100%)
- Magenta (32%)
- Yellow (52%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.6772, 0.2525, 0.4288 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 31.6772, 0.2525, 0.4288 by changing the saturation by 10% instead.


 31.6772, 0.2525,
0.4288


 31.6772, 0.2525,
0.4288


309.6462, 0.2858,
0.3727


 21.1151, 0.2430,
0.4452


 62.3047, 0.2655,
0.4067


 13.2081, 0.2299,
0.4680


 83.1388, 0.2701,
0.3989

 7.5720, 0.2111,
0.5015


 108.1658, 0.2739,
0.3926

 3.8223, 0.1820,
0.5548

 137.7699, 0.2770,
0.3873

 1.5747, 0.0687,
0.7290

 172.3356, 0.2797,
0.3828

 0.3404, 0.0000,
1.0000

 212.2473, 0.2821,

 0.0000, 0.0000,

0.3789

0.0000

257.8893, 0.2841,
0.3756

■ 31.6772, 0.2525,
0.4288

■ 31.6772, 0.2525,
0.4288

■ 31.6718, 0.2525,
0.4291

■ 31.9355, 0.2514,
0.4176

■ 32.3101, 0.2520,
0.4064

■ 32.8430, 0.2544,
0.3951

■ 33.5539, 0.2588,
0.3840

■ 34.4597, 0.2649,
0.3732

■ 35.5752, 0.2726,
0.3630

■ 36.9136, 0.2815,
0.3533

■ 38.4872, 0.2914,
0.3444

■ 40.3074, 0.3020,
0.3362

Harmonies

Analogous

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



31.6772, 0.3293, 0.4814



31.6772, 0.2525, 0.4288



31.6772, 0.1964, 0.3384

Triad

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



31.6772, 0.2525, 0.4288



31.6772, 0.2133, 0.2040



31.6772, 0.4776, 0.3623

Complementary

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



31.6772, 0.2525, 0.4288



9.2607, 0.5745, 0.2941

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.



31.6772, 0.4403, 0.3033



31.6772, 0.2525, 0.4288



31.6772, 0.2776, 0.2172

Square

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



31.6772, 0.2525, 0.4288



31.6772, 0.1779, 0.2168



31.6772, 0.3623, 0.2523



31.6772, 0.4619, 0.4224

Rectangle

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



31.6772, 0.2525, 0.4288



31.6772, 0.1764, 0.2832



31.6772, 0.3623, 0.2523



31.6772, 0.4711, 0.3422

Sweetspot

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



31.6784, 0.2525, 0.4288



66.7509, 0.2808, 0.3541



31.0155, 0.3145, 0.5883



14.6049, 0.2770, 0.3580



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



31.6784, 0.2525, 0.4288



57.4122, 0.2531, 0.4310



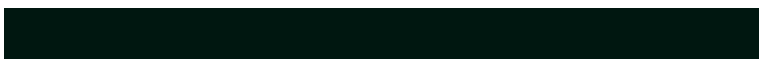
21.6087, 0.2067, 0.2640



9.0306, 0.3025, 0.3359



22.9841, 0.2522, 0.4279



0.6484, 0.2428, 0.3942

Inverse Universe

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



9.2607, 0.5745, 0.2941



16.7402, 0.5797, 0.2967



10.2119, 0.6163, 0.3484



8.0534, 0.3241, 0.3222



6.7169, 0.5724, 0.2927



0.1966, 0.4865, 0.2454

Previews

White Background



This preview shows how the Yxy color 31.6772, 0.2525, 0.4288 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 31.6772, 0.2525, 0.4288 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 31.6772, 0.2525, 0.4288

Background



This preview shows how black text looks on a background with the Yxy color 31.6772, 0.2525, 0.4288.



This preview shows how white text looks on a background with the Yxy color 31.6772, 0.2525, 0.4288.

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

31.6772, 0.2525, 0.4288

Protanopia

31.0896, 0.3638, 0.3887

Deuteranopia

31.1150, 0.3615, 0.3556



Tritanopia

31.8323, 0.2295, 0.3070

Trichromacy



Original Color

31.6772, 0.2525, 0.4288



Protanomaly

29.0003, 0.2983, 0.4070



Deuteranomaly

28.6628, 0.2962, 0.3823



Tritanomaly

31.6460, 0.2356, 0.3484

Monochromacy



Original Color

31.6772, 0.2525, 0.4288



Achromatopsia

17.4647, 0.3127, 0.3290



Achromatomaly

20.6552, 0.2684, 0.3687

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.6772, 0.2525, 0.4288 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(0, 174, 122)` looks like.

```
.text, #text, p{  
    color:rgb(0, 174, 122)  
}
```

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(0, 174, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 174, 122) }
```

Border

The CSS property to change the border of an element to Yxy 31.6772, 0.2525, 0.4288 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(0, 174, 122) }
```

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

```
.border{ border-color:rgb(0, 174, 122) }
```

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

Here you see how a box with a 4 pixel rgb(0, 174, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 174, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 174, 122);  
box-shadow:4px 4px 4px 4px rgb(0, 174,  
122) }
```


Background

The CSS property to change the background color of an element to Yxy 31.6772, 0.2525, 0.4288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 174, 122) }
```

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

```
.background{ background-color: rgb(0, 174,  
122) }
```

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](#).

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