

Converting Colors

$Y_{xy}(30.6268, 0.2241, 0.4116)$

Have a look what the booklet for
Yxy(30.6268, 0.2241, 0.4116)
contains.

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Color

Yxy(31.9656, 0.2462, 0.4063)

Conversions

Conversions Part 1

Format	Color
Hex	00AE85
RGB	0, 174, 133
RGB Percent	0%, 68%, 52%
CMY	0.9999, 0.3176, 0.4784
CMYK	1.00, 0.00, 0.24, 0.32
HSL	166°, 100%, 34%
HSV	166°, 100%, 68%
XYZ	19.3698, 31.9656, 27.3395
YIQ	117.3000, -90.5430, -49.6390

Conversions

Conversions Part 2

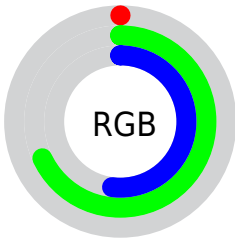
Format	Color
RYB	0, 99, 174
Decimal	44677
CIELab	63.31, -47.63, 10.57
CIELCh	63, 48.794, 167.484
Yxy	31.9656, 0.2462, 0.4063
Android (android.graphics.Color)	4278234757 (0xFF00AE85)
YUV	117.3000, 7.7401, -102.8721
Hunter-Lab	56.5381, -37.7883, 10.9065

Details

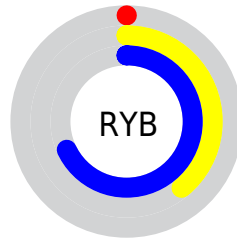
The Yxy color **31.9656, 0.2462, 0.4063** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **9.1597, 0.5964, 0.3059**, and the grayscale version is **17.8861, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.5185, 0.2601, 0.3892**, and **14.0575, 0.2524, 0.4286** is the 20% darker color. If you saturate the color by 10%, you get **31.9666, 0.2462, 0.4063**, and if you desaturate by 10%, it is **32.2054, 0.2457, 0.3977**.

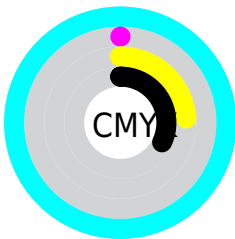
Distribution



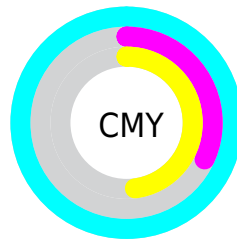
- Red (0%)
- Green (68%)
- Blue (52%)



- Red (0%)
- Yellow (39%)
- Blue (68%)



- Cyan (100%)
- Magenta (0%)
- Yellow (24%)
- Black (32%)




- Cyan (100%)
- Magenta (32%)
- Yellow (48%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 31.9656, 0.2462, 0.4063 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 31.9656, 0.2462, 0.4063 by changing the saturation by 10% instead.


 31.9656, 0.2462,
0.4063


 31.9656, 0.2462,
0.4063


 310.9625, 0.2822,
0.3635

 21.3352, 0.2363,
0.4186


 62.7572, 0.2600,
0.3896

 13.3693, 0.2229,
0.4354


 83.6871, 0.2649,
0.3837


 7.6833, 0.2041,
0.4598


 108.8191, 0.2690,
0.3789

 3.8930, 0.1759,
0.4981

 138.5374, 0.2725,
0.3748

 1.6139, 0.0876,
0.5938

 173.2266, 0.2754,
0.3713

 0.3669, 0.0000,
1.0000

 213.2708, 0.2780,

 0.0000, 0.0000,

0.3684

0.0000

259.0547, 0.2802,
0.3658

■ 31.9656, 0.2462,
0.4063

■ 31.9656, 0.2462,
0.4063

■ 31.9666, 0.2462,
0.4063

■ 32.2054, 0.2457,
0.3977

■ 32.5565, 0.2467,
0.3891

■ 33.0629, 0.2497,
0.3804

■ 33.7441, 0.2545,
0.3719

■ 34.6171, 0.2611,
0.3636

■ 35.6966, 0.2693,
0.3557

■ 36.9960, 0.2789,
0.3482

■ 38.5274, 0.2895,
0.3412

■ 40.3022, 0.3009,
0.3348

Harmonies

Analogous

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



31.9656, 0.3157, 0.4637



31.9656, 0.2462, 0.4063



31.9656, 0.1983, 0.3236

Triad

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



31.9656, 0.2462, 0.4063



31.9656, 0.2294, 0.2128



31.9656, 0.4660, 0.3719

Complementary

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



31.9656, 0.2462, 0.4063



9.1597, 0.5964, 0.3059

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.



31.9656, 0.4399, 0.3156



31.9656, 0.2462, 0.4063



31.9656, 0.2940, 0.2291

Square

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



31.9656, 0.2462, 0.4063



31.9656, 0.1908, 0.2206



31.9656, 0.3731, 0.2655



31.9656, 0.4445, 0.4269

Rectangle

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



31.9656, 0.2462, 0.4063



31.9656, 0.1828, 0.2758



31.9656, 0.3731, 0.2655



31.9656, 0.4628, 0.3529

Sweetspot

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



31.9668, 0.2462, 0.4063



66.9663, 0.2783, 0.3486



30.7981, 0.3104, 0.5917



14.6585, 0.2743, 0.3516



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.



31.9668, 0.2462, 0.4063



57.9461, 0.2466, 0.4078



19.1568, 0.2018, 0.2463



9.0393, 0.3017, 0.3344



23.1943, 0.2459, 0.4054



0.6530, 0.2387, 0.3794

Inverse Universe

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



9.1597, 0.5964, 0.3059



16.5843, 0.6004, 0.3081



10.7646, 0.6069, 0.3563



8.0451, 0.3251, 0.3237



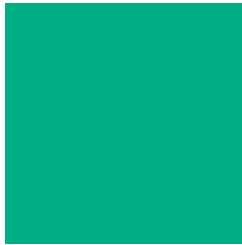
6.6509, 0.5937, 0.3044



0.1934, 0.5106, 0.2587

Previews

White Background



This preview shows how the Yxy color 31.9656, 0.2462, 0.4063 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 31.9656, 0.2462, 0.4063 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

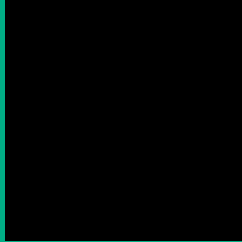
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.9656, 0.2462, 0.4063

Background



This preview shows how black text looks on a background with the Yxy color 31.9656, 0.2462, 0.4063.



This preview shows how white text looks on a background with the Yxy color 31.9656, 0.2462, 0.4063.

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

31.9656, 0.2462, 0.4063

Protanopia

31.5430, 0.3524, 0.3750

Deuteranopia

31.5022, 0.3474, 0.3408



Tritanopia

32.1537, 0.2284, 0.3070

Trichromacy



Original Color

31.9656, 0.2462, 0.4063



Protanomaly

29.5315, 0.2895, 0.3899



Deuteranomaly

29.1713, 0.2855, 0.3640



Tritanomaly

31.7871, 0.2324, 0.3394

Monochromacy



Original Color

31.9656, 0.2462, 0.4063



Achromatopsia

17.7888, 0.3127, 0.3290



Achromatomaly

21.0629, 0.2646, 0.3598

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.9656, 0.2462, 0.4063 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, 133)` looks like.

```
.text, #text, p{  
  color:rgb(0, 174, 133)  
}
```

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, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 174, 133) }
```

Border

The CSS property to change the border of an element to Yxy 31.9656, 0.2462, 0.4063 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, 133) }
```

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

```
.border{ border-color:rgb(0, 174, 133) }
```

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, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 174, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 174, 133);  
box-shadow:4px 4px 4px 4px rgb(0, 174,  
133) }
```


Background

The CSS property to change the background color of an element to Yxy 31.9656, 0.2462, 0.4063 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, 133) }
```

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

```
.background{ background-color: rgb(0, 174,  
133) }
```

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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