

Converting Colors

XYZ(20.4806, 33.0171, 31.3177)

Have a look what the booklet for
XYZ(20.4806, 33.0171, 31.3177)
contains.

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Color

**XYZ(20.4833, 33.0338,
31.2832)**

Conversions

Conversions Part 1

Format	Color
Hex	00B08F
RGB	0, 176, 143
RGB Percent	0%, 69%, 56%
CMY	0.9999, 0.3098, 0.4392
CMYK	1.00, 0.00, 0.19, 0.31
HSL	169°, 100%, 35%
HSV	169°, 100%, 69%
XYZ	20.4833, 33.0338, 31.2832
YIQ	119.6140, -94.3030, -47.5750

Conversions

Conversions Part 2

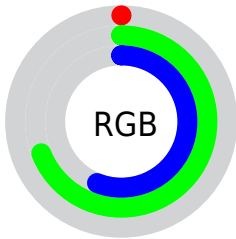
Format	Color
RYB	0, 97, 176
Decimal	45199
CIELab	64.19, -45.87, 6.28
CIELCh	64, 46.296, 172.199
Yxy	33.0338, 0.2415, 0.3895
Android (android.graphics.Color)	4278235279 (0xFF00B08F)
YUV	119.6140, 11.5293, -104.9015
Hunter-Lab	57.4750, -36.9664, 7.9615

Details

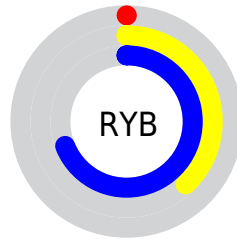
The XYZ color **20.4833, 33.0338, 31.2832** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **18.1803, 9.3410, 2.2857**, and the grayscale version is **17.7183, 18.6411, 20.3001**.

A 20% lighter version of the original color is **43.9363, 64.7419, 63.0041**, and **8.9353, 14.7094, 12.7242** is the 20% darker color. If you saturate the color by 10%, you get **20.4835, 33.0347, 31.2819**, and if you desaturate by 10%, it is **20.9802, 33.2615, 32.6318**.

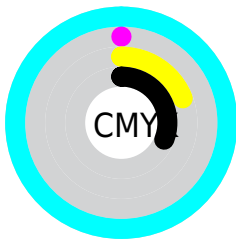
Distribution



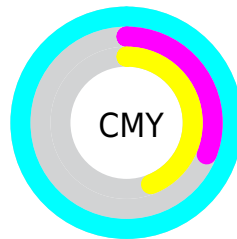
- Red (0%)
- Green (69%)
- Blue (56%)



- Red (0%)
- Yellow (38%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (19%)
- Black (31%)





- Cyan (100%)
- Magenta (31%)
- Yellow (44%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.4833, 33.0338, 31.2832 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 XYZ color 20.4833, 33.0338, 31.2832 by changing the saturation by 10% instead.


 20.4833, 33.0338,
31.2832


 20.4833, 33.0338,
31.2832


247.3036,
315.8020, 322.2324


 12.8571, 22.1523,
20.5543

 43.7238, 64.4283,
62.7705


 7.4066, 13.9689,
12.6106


 60.0688, 85.7101,
84.3659


 3.7662, 8.0990,
7.0334


 80.0509, 111.2275,
110.4207

 1.5707, 4.1584,
3.4042

 104.0353,
141.3649, 141.3532

 0.3732, 1.7625,
1.3046

 132.3874,
176.5066, 177.5821

 0.0000, 0.4637,
0.0655

 165.4726,

 0.0000, 0.0000,

217.0371, 219.5259

0.0000

203.6562,
263.3408, 267.6032

■ 20.4833, 33.0338,
31.2832

■ 20.4833, 33.0338,
31.2832

■ 20.4835, 33.0347,
31.2819

■ 20.9802, 33.2615,
32.6318

■ 21.6998, 33.6022,
34.0289

■ 22.7268, 34.1006,
35.4794

■ 24.1007, 34.7770,
36.9855

■ 25.8549, 35.6485,
38.5491

■ 28.0191, 36.7305,
40.1718

■ 30.6197, 38.0366,
41.8553

■ 33.6810, 39.5793,
43.6009

■ 37.2255, 41.3702,
45.4100

Harmonies

Analogous

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



22.4466, 33.0338, 18.0561



20.4833, 33.0338, 31.2832



21.1051, 33.0338, 51.4199

Triad

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



20.4833, 33.0338, 31.2832



36.4097, 33.0338, 80.8667



39.7828, 33.0338, 14.3059

Complementary

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



20.4833, 33.0338, 31.2832



18.1803, 9.3410, 2.2857

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.



44.5875, 33.0338, 23.9708



20.4833, 33.0338, 31.2832



42.4587, 33.0338, 62.9712

Square

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



20.4833, 33.0338, 31.2832



29.7161, 33.0338, 84.9562



45.6295, 33.0338, 41.0990



33.1415, 33.0338, 10.7329

Rectangle

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



20.4833, 33.0338, 31.2832



22.9479, 33.0338, 66.1070



45.6295, 33.0338, 41.0990



41.7023, 33.0338, 16.7475

Sweetspot

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



20.4842, 33.0351, 31.2840



55.2563, 68.8448, 75.7414



16.2267, 31.4130, 5.2089



11.5374, 14.6998, 16.1400



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



20.4842, 33.0351, 31.2840



37.0699, 59.8806, 56.3163



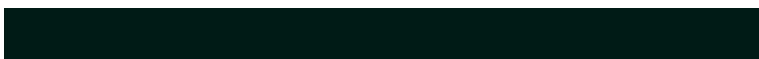
14.9461, 17.3529, 43.6373



8.6729, 9.6037, 10.5373



15.0488, 24.2455, 23.0576



0.4912, 0.7699, 0.8186

Inverse Universe

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



18.1803, 9.3410, 2.2857



32.9096, 16.9151, 3.8196



19.1701, 11.7603, 1.2604



8.5593, 8.5304, 9.1778



13.3549, 6.8595, 1.7627



0.4395, 0.2236, 0.1573

Previews

White Background



This preview shows how the XYZ color 20.4833, 33.0338, 31.2832 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 XYZ color 20.4833, 33.0338, 31.2832 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

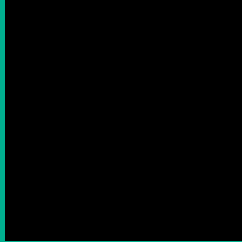
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 20.4833, 33.0338, 31.2832

Background



This preview shows how black text looks on a background with the XYZ color 20.4833, 33.0338, 31.2832.

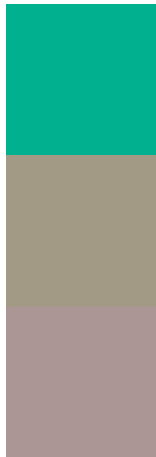


This preview shows how white text looks on a background with the XYZ color 20.4833, 33.0338,

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

20.4833, 33.0338, 31.2832

Protanopia

30.6208, 32.4585, 26.4810

Deuteranopia

33.1855, 32.4355, 32.9454



Tritanopia

24.4426, 32.9402, 50.4172

Trichromacy



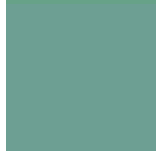
Original Color

20.4833, 33.0338, 31.2832



Protanomaly

22.9578, 30.5018, 27.9700



Deuteranomaly

23.9713, 30.1541, 32.1607



Tritanomaly

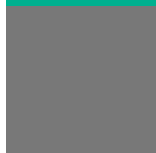
22.5412, 32.6930, 42.6584

Monochromacy



Original Color

20.4833, 33.0338, 31.2832



Achromatopsia

17.8524, 18.7821, 20.4537



Achromatomaly

16.2549, 21.8512, 23.7831

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4833, 33.0338, 31.2832 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, 176, 143)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 143)  
}
```

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, 176, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 143) }
```

Border

The CSS property to change the border of an element to XYZ 20.4833, 33.0338, 31.2832 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, 176, 143) }
```


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

```
.border{ border-color:rgb(0, 176, 143) }
```

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

Here you see how a box with a 4 pixel rgb(0, 176, 143) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 143);  
box-shadow:4px 4px 4px 4px rgb(0, 176,  
143) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4833, 33.0338, 31.2832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 143) }
```

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

```
.background{ background-color: rgb(0, 176,  
143) }
```

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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