

Converting Colors

XYZ(21.3493, 31.0147, 40.0467)

Have a look what the booklet for
XYZ(21.3493, 31.0147, 40.0467)
contains.

XYZ(21.3307, 31.0089, 39.9830)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(21.3307, 31.0089,
39.9830)**

Conversions

Conversions Part 1

Format	Color
Hex	21A8A4
RGB	33, 168, 164
RGB Percent	13%, 66%, 64%
CMY	0.8705, 0.3412, 0.3569
CMYK	0.80, 0.00, 0.02, 0.34
HSL	178°, 67%, 39%
HSV	178°, 80%, 66%
XYZ	21.3307, 31.0089, 39.9830
YIQ	127.1790, -79.1760, -29.8640

Conversions

Conversions Part 2

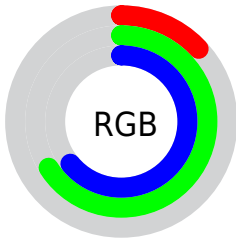
Format	Color
RYB	33, 102, 168
Decimal	2205860
CIELab	62.52, -34.58, -7.85
CIELCh	63, 35.457, 192.788
Yxy	31.0089, 0.2310, 0.3359
Android (android.graphics.Color)	4280395940 (0xFF21A8A4)
YUV	127.1790, 18.1528, -82.5950
Hunter-Lab	55.6856, -29.0744, -3.5910




Details

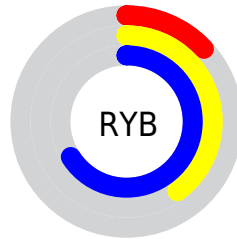
The XYZ color **21.3307, 31.0089, 39.9830** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.0273, 9.5472, 2.6968**, and the grayscale version is **20.1950, 21.2467, 23.1377**.




A 20% lighter version of the original color is **45.2675, 61.4290, 76.4890**, and **9.0554, 13.4313, 17.4445** is the 20% darker color. If you saturate the color by 10%, you get **20.8765, 30.7806, 39.7281**, and if you desaturate by 10%, it is **22.0553, 31.3779, 40.2529**.

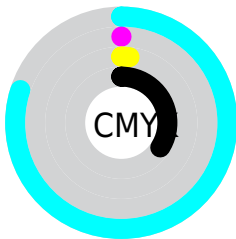
Distribution







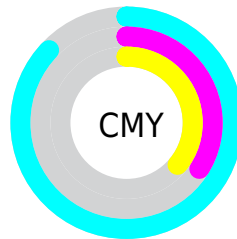
-  Red (13%)
-  Green (66%)
-  Blue (64%)






-  Red (13%)
-  Yellow (40%)
-  Blue (66%)



-  Cyan (80%)
-  Magenta (0%)
-  Yellow (2%)
-  Black (34%)





-  Cyan (87%)
-  Magenta (34%)
-  Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.3307, 31.0089, 39.9830 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 21.3307, 31.0089, 39.9830 by changing the saturation by 10% instead.


 21.3307, 31.0089,
39.9830

 21.3307, 31.0089,
39.9830


251.7294,
306.5793, 361.6019


 13.4798, 20.6056,
27.2116


 45.1244, 61.2541,
76.3744


 7.8390, 12.8360,
17.4984


 61.7979, 81.8648,
100.8315


 4.0430, 7.3157,
10.4247


 82.1430, 106.6467,
130.0210

 1.7265, 3.6603,
5.5722

 106.5250,
135.9844, 164.3613

 0.4728, 1.4854,
2.5222

 135.3093,
170.2620, 204.2710

 0.0000, 0.2784,
0.8519

168.8612,

 0.0000, 0.0000,

209.8642, 250.1686

0.0000

207.5461,
255.1751, 302.4727

■ 21.3307, 31.0089,
39.9830

■ 21.3307, 31.0089,
39.9830

■ 20.8765, 30.7806,
39.7281

■ 22.0553, 31.3779,
40.2529

■ 20.6160, 30.6513,
39.4907

■ 23.0827, 31.9023,
40.5371

■ 24.4437, 32.5987,
40.8379

■ 26.1646, 33.4806,
41.1564

■ 28.2692, 34.5603,
41.4939

■ 30.7791, 35.8489,
41.8512

■ 33.7143, 37.3567,
42.2293

■ 37.0937, 39.0935,
42.6292

■ 40.9348, 41.0683,
43.0516

Harmonies

Analogous

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



21.4802, 31.0089, 26.5057



21.3307, 31.0089, 39.9830



23.1840, 31.0089, 55.1821

Triad

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



21.3307, 31.0089, 39.9830



36.2243, 31.0089, 57.2156



32.3000, 31.0089, 14.2328

Complementary

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



21.3307, 31.0089, 39.9830



17.0273, 9.5472, 2.6968

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.



36.8075, 31.0089, 18.7578



21.3307, 31.0089, 39.9830



39.2370, 31.0089, 42.2380

Square

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



21.3307, 31.0089, 39.9830



31.5715, 31.0089, 66.8071



39.4614, 31.0089, 28.2248



27.4697, 31.0089, 13.9369

Rectangle

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



21.3307, 31.0089, 39.9830



25.4366, 31.0089, 63.2803



39.4614, 31.0089, 28.2248



33.9153, 31.0089, 15.2384

Sweetspot

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



21.3316, 31.0101, 39.9837



53.8970, 64.0474, 75.6731



15.0592, 28.5189, 6.1508



11.4126, 13.7878, 16.4454



80.6108, 84.8088, 92.3568



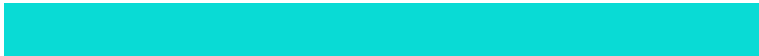
14.7206, 15.4872, 16.8656

Same Dimension

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



21.3316, 31.0101, 39.9837



37.5375, 55.6835, 71.7601



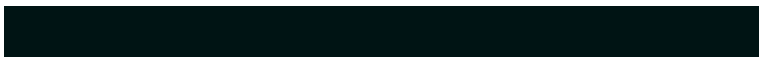
12.7480, 13.2554, 38.9336



7.7378, 8.5282, 9.6054



15.5713, 23.1473, 29.8392



0.3817, 0.5643, 0.7411

Inverse Universe

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



17.0273, 9.5472, 2.6968



29.4853, 15.3316, 1.8576



20.6073, 16.8022, 3.5968



7.5398, 7.5458, 7.8937



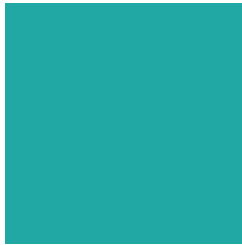
12.2187, 6.2962, 0.6972



0.3000, 0.1543, 0.0313

Previews

White Background



This preview shows how the XYZ color 21.3307, 31.0089, 39.9830 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 21.3307, 31.0089, 39.9830 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

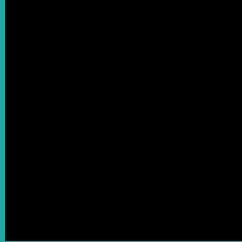
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 21.3307, 31.0089, 39.9830

Background



This preview shows how black text looks on a background with the XYZ color 21.3307, 31.0089, 39.9830.

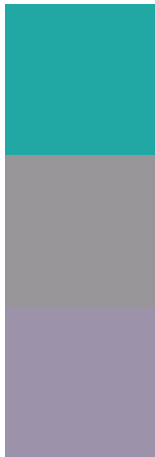


This preview shows how white text looks on a background with the XYZ color 21.3307, 31.0089,

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

21.3307, 31.0089, 39.9830

Protanopia

29.4461, 30.4702, 34.4664

Deuteranopia

31.1506, 30.4903, 41.7795



Tritanopia

22.8996, 31.1080, 47.4453

Trichromacy



Original Color

21.3307, 31.0089, 39.9830

Protanomaly

24.2809, 29.4625, 36.3054

Deuteranomaly

25.0862, 29.2807, 40.8888

Tritanomaly

22.3731, 31.1648, 44.8806

Monochromacy



Original Color

21.3307, 31.0089, 39.9830

Achromatopsia

20.1725, 21.2231, 23.1119

Achromatomaly

18.9208, 23.5666, 28.3625

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.3307, 31.0089, 39.9830 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(33, 168, 164)` looks like.

```
.text, #text, p{  
    color:rgb(33, 168, 164)  
}
```

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(33, 168, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 168, 164) }
```

Border

The CSS property to change the border of an element to XYZ 21.3307, 31.0089, 39.9830 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(33, 168, 164) }
```


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

```
.border{ border-color:rgb(33, 168, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 168, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 168, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 168, 164);  
box-shadow:4px 4px 4px 4px rgb(33, 168,  
164) }
```

Background

The CSS property to change the background color of an element to XYZ 21.3307, 31.0089, 39.9830 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 168, 164) }
```

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

```
.background{ background-color: rgb(33, 168,  
164) }
```

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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