

Converting Colors

XYZ(12.3307, 32.3551, 39.5272)

Have a look what the booklet for
XYZ(12.3307, 32.3551, 39.5272)
contains.

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Color

**XYZ(24.4162, 38.5396,
39.8702)**

Conversions

Conversions Part 1

Format	Color
Hex	00BCA1
RGB	0, 188, 161
RGB Percent	0%, 74%, 63%
CMY	0.9999, 0.2627, 0.3686
CMYK	1.00, 0.00, 0.14, 0.26
HSL	171°, 100%, 37%
HSV	171°, 100%, 74%
XYZ	24.4162, 38.5396, 39.8702
YIQ	128.7100, -103.3810, -48.2530

Conversions

Conversions Part 2

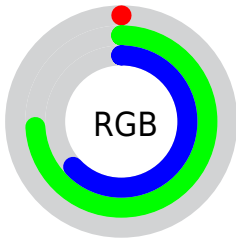
Format	Color
RYB	0, 101, 188
Decimal	48289
CIELab	68.42, -46.02, 2.46
CIELCh	68, 46.084, 176.939
Yxy	38.5396, 0.2375, 0.3748
Android (android.graphics.Color)	4278238369 (0xFF00BCA1)
YUV	128.7100, 15.9190, -112.8787
Hunter-Lab	62.0803, -38.4363, 5.3780

Details

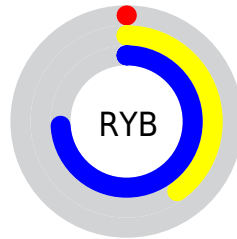
The XYZ color **24.4162, 38.5396, 39.8702** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **20.9382, 10.7715, 2.0141**, and the grayscale version is **20.7400, 21.8201, 23.7621**.

A 20% lighter version of the original color is **50.1927, 72.9153, 76.3944**, and **11.3396, 18.1760, 17.6625** is the 20% darker color. If you saturate the color by 10%, you get **24.4166, 38.5408, 39.8694**, and if you desaturate by 10%, it is **24.9229, 38.7739, 41.1515**.

Distribution



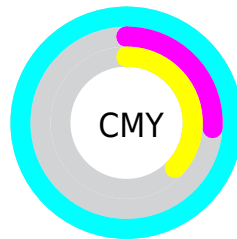
- Red (0%)
- Green (74%)
- Blue (63%)



- Red (0%)
- Yellow (40%)
- Blue (74%)



- Cyan (100%)
- Magenta (0%)
- Yellow (14%)
- Black (26%)





- Cyan (100%)
- Magenta (26%)
- Yellow (37%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 24.4162, 38.5396, 39.8702 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 24.4162, 38.5396, 39.8702 by changing the saturation by 10% instead.


 24.4162, 38.5396,
39.8702


 24.4162, 38.5396,
39.8702


267.3195,
339.9291, 361.1120


 15.7690, 26.4018,
27.1243


 50.1583, 72.9345,
76.2007


 9.4507, 17.1244,
17.4334


 67.9839, 95.9603,
100.6225


 5.0957, 10.3233,
10.3787


 89.5998, 123.3842,
129.7733

 2.3389, 5.6138,
5.5419

 115.3712,
155.5906, 164.0717

 0.8145, 2.6117,
2.5044

 145.6635,
192.9639, 203.9362

 0.0000, 0.9326,
0.8425

180.8421,

 0.0000, 0.0000,

235.8885, 249.7854

0.0000

221.2723,
284.7487, 302.0378

■ 24.4162, 38.5396,
39.8702

■ 24.4162, 38.5396,
39.8702

■ 24.4166, 38.5408,
39.8694

■ 24.9229, 38.7739,
41.1515

■ 25.6894, 39.1406,
42.4712

■ 26.8098, 39.6892,
43.8346

■ 28.3308, 40.4437,
45.2441

■ 30.2919, 41.4245,
46.7017

■ 32.7279, 42.6494,
48.2091

■ 35.6700, 44.1346,
49.7681

■ 39.1467, 45.8949,
51.3801

■ 43.1844, 47.9437,
53.0465

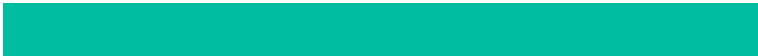
Harmonies

Analogous

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



26.1605, 38.5396, 23.7578



24.4162, 38.5396, 39.8702



25.5712, 38.5396, 62.7354

Triad

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



24.4162, 38.5396, 39.8702



43.3048, 38.5396, 88.4723



44.7602, 38.5396, 16.6374

Complementary

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



24.4162, 38.5396, 39.8702



20.9382, 10.7715, 2.0141

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.



50.4922, 38.5396, 26.3714



24.4162, 38.5396, 39.8702



49.5772, 38.5396, 67.6805

Square

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



24.4162, 38.5396, 39.8702



35.8925, 38.5396, 95.6775



52.3607, 38.5396, 44.1279



37.3790, 38.5396, 13.4183

Rectangle

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



24.4162, 38.5396, 39.8702



27.9259, 38.5396, 78.3425



52.3607, 38.5396, 44.1279



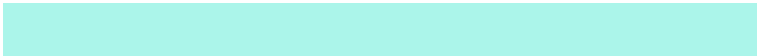
46.9791, 38.5396, 19.0579

Sweetspot

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



24.4173, 38.5411, 39.8711



64.3524, 79.8372, 90.0494



18.4690, 36.2177, 6.0180



13.3347, 16.9140, 19.1064



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



24.4173, 38.5411, 39.8711



44.1795, 69.8189, 71.8834



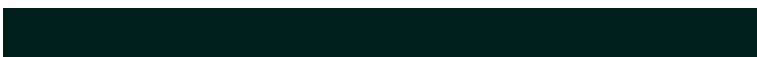
16.0632, 17.6020, 50.1295



9.7480, 10.7853, 11.9227



16.6446, 26.2481, 27.2551



0.6684, 1.0347, 1.1538

Inverse Universe

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



20.9382, 10.7715, 2.0141



37.8923, 19.4988, 3.3694



22.6775, 14.5669, 1.6172



9.5845, 9.5581, 10.2010



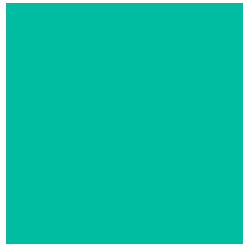
14.2720, 7.3400, 1.4600



0.5772, 0.2948, 0.1527

Previews

White Background



This preview shows how the XYZ color 24.4162, 38.5396, 39.8702 looks on a white background.

Color Contrast Check

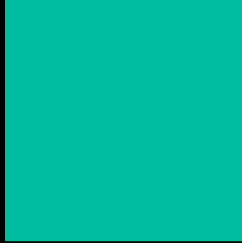
Large Text (above 18pt) WCAG AA × Fail

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 24.4162, 38.5396, 39.8702 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

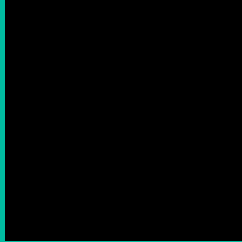
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

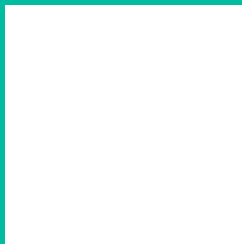
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 24.4162, 38.5396, 39.8702

Background



This preview shows how black text looks on a background with the XYZ color 24.4162, 38.5396, 39.8702.

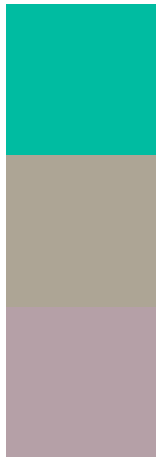


This preview shows how white text looks on a background with the XYZ color 24.4162, 38.5396,

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

24.4162, 38.5396, 39.8702

Protanopia

36.1135, 37.9644, 33.8583

Deuteranopia

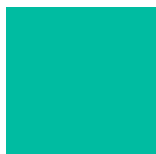
38.6019, 37.7554, 41.8122



Tritanopia

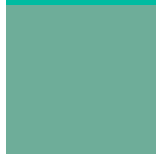
28.5427, 38.6743, 59.3866

Trichromacy



Original Color

24.4162, 38.5396, 39.8702



Protanomaly

27.1237, 35.5020, 35.5600



Deuteranomaly

28.2365, 35.1109, 40.8862



Tritanomaly

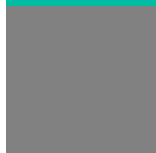
26.7331, 38.5240, 51.9258

Monochromacy



Original Color

24.4162, 38.5396, 39.8702



Achromatopsia

20.8660, 21.9526, 23.9064



Achromatomaly

19.1937, 25.5296, 29.1154

CSS Examples

Text

The CSS property to change the color of the text to XYZ 24.4162, 38.5396, 39.8702 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, 188, 161)` looks like.

```
.text, #text, p{  
    color:rgb(0, 188, 161)  
}
```

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, 188, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 188, 161) }
```

Border

The CSS property to change the border of an element to XYZ 24.4162, 38.5396, 39.8702 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, 188, 161) }
```


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

```
.border{ border-color:rgb(0, 188, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 188, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 188, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 188, 161);  
box-shadow:4px 4px 4px 4px rgb(0, 188,  
161) }
```

Background

The CSS property to change the background color of an element to XYZ 24.4162, 38.5396, 39.8702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 188, 161) }
```

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

```
.background{ background-color: rgb(0, 188,  
161) }
```

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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