

Converting Colors

XYZ(23.7004, 38.3232, 36.6458)

Have a look what the booklet for
XYZ(23.7004, 38.3232, 36.6458)
contains.

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Color

**XYZ(23.8160, 38.2995,
36.7092)**

Conversions

Conversions Part 1

Format	Color
Hex	00BC9A
RGB	0, 188, 154
RGB Percent	0%, 74%, 60%
CMY	0.9999, 0.2627, 0.3961
CMYK	1.00, 0.00, 0.18, 0.26
HSL	169°, 100%, 37%
HSV	169°, 100%, 74%
XYZ	23.8160, 38.2995, 36.7092
YIQ	127.9120, -101.1340, -50.4300

Conversions

Conversions Part 2

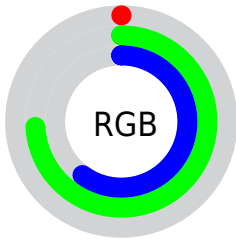
Format	Color
RYB	0, 103, 188
Decimal	48282
CIELab	68.24, -47.89, 6.04
CIELCh	68, 48.267, 172.806
Yxy	38.2995, 0.2410, 0.3875
Android (android.graphics.Color)	4278238362 (0xFF00BC9A)
YUV	127.9120, 12.8614, -112.1788
Hunter-Lab	61.8866, -39.6088, 8.1516

Details

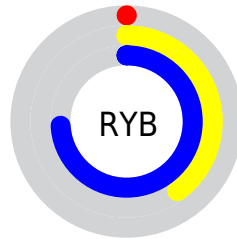
The XYZ color **23.8160, 38.2995, 36.7092** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **21.0292, 10.8081, 2.4936**, and the grayscale version is **20.4729, 21.5390, 23.4560**.

A 20% lighter version of the original color is **49.0746, 72.4556, 71.0733**, and **10.9733, 18.0295, 15.7336** is the 20% darker color. If you saturate the color by 10%, you get **23.8162, 38.3006, 36.7077**, and if you desaturate by 10%, it is **24.3693, 38.5525, 38.2356**.

Distribution



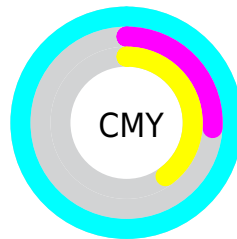
- Red (0%)
- Green (74%)
- Blue (60%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (18%)
- Black (26%)



- Cyan (100%)
- Magenta (26%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8160, 38.2995, 36.7092 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 23.8160, 38.2995, 36.7092 by changing the saturation by 10% instead.

■ 23.8160, 38.2995,
36.7092

■ 23.8160, 38.2995,
36.7092

264.3467,
338.9030, 347.1805

■ 15.3212, 26.2152,
24.6884

■ 49.1866, 72.5670,
71.3066

■ 9.1329, 16.9847,
15.6281

■ 66.7932, 95.5189,
94.7203

■ 4.8858, 10.2236,
9.1099

■ 88.1676, 122.8623,
122.7688

■ 2.2145, 5.5475,
4.7152

■ 113.6754,
154.9813, 155.8704

■ 0.7503, 2.5719,
2.0253

■ 143.6819,
192.2605, 194.4439

■ 0.0000, 0.9126,
0.5708

178.5523,

■ 0.0000, 0.0000,

235.0843, 238.9077

0.0000

218.6521,
283.8370, 289.6804

■ 23.8160, 38.2995,
36.7092

■ 23.8160, 38.2995,
36.7092

■ 23.8162, 38.3006,
36.7077

■ 24.3693, 38.5525,
38.2356

■ 25.1853, 38.9390,
39.8158

■ 26.3582, 39.5086,
41.4552

■ 27.9347, 40.2853,
43.1563

■ 29.9544, 41.2895,
44.9215

■ 32.4519, 42.5391,
46.7525

■ 35.4586, 44.0502,
48.6513

■ 39.0031, 45.8375,
50.6193

■ 43.1117, 47.9147,
52.6583

Harmonies

Analogous

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



26.0198, 38.2995, 21.2800



23.8160, 38.2995, 36.7092



24.5935, 38.2995, 59.9818

Triad

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



23.8160, 38.2995, 36.7092



42.3244, 38.2995, 92.9651



45.9021, 38.2995, 16.5769

Complementary

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



23.8160, 38.2995, 36.7092



21.0292, 10.8081, 2.4936

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.



51.4910, 38.2995, 27.5732



23.8160, 38.2995, 36.7092



49.2342, 38.2995, 72.2209

Square

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



23.8160, 38.2995, 36.7092



34.6148, 38.2995, 98.0432



52.7879, 38.2995, 47.1274



38.2508, 38.2995, 12.5590

Rectangle

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



23.8160, 38.2995, 36.7092



26.7572, 38.2995, 76.8125



52.7879, 38.2995, 47.1274



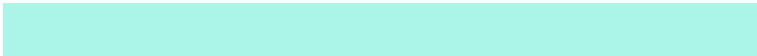
48.1252, 38.2995, 19.3500

Sweetspot

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



23.8171, 38.3010, 36.7101



63.9618, 79.6810, 87.9927



18.6600, 36.3162, 6.0271



13.2400, 16.8761, 18.6077



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.



23.8171, 38.3010, 36.7101



43.0781, 69.3783, 66.0834



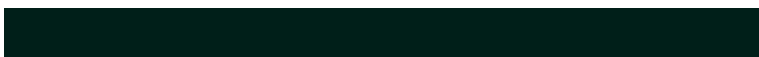
16.8595, 19.1946, 50.3949



9.7325, 10.7791, 11.8409



16.2398, 26.0862, 25.1236



0.6558, 1.0297, 1.0876

Inverse Universe

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



21.0292, 10.8081, 2.4936



38.0464, 19.5605, 4.1809



22.3325, 13.8771, 1.5024



9.5988, 9.5638, 10.2761



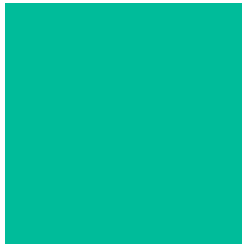
14.3371, 7.3660, 1.8026



0.5834, 0.2973, 0.1856

Previews

White Background



This preview shows how the XYZ color 23.8160, 38.2995, 36.7092 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 23.8160, 38.2995, 36.7092 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

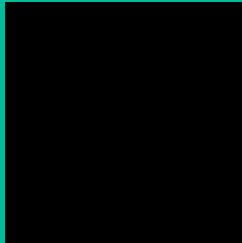
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

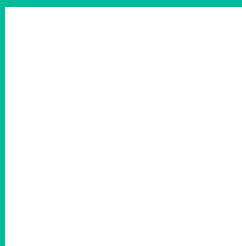
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.8160, 38.2995, 36.7092

Background



This preview shows how black text looks on a background with the XYZ color 23.8160, 38.2995, 36.7092.

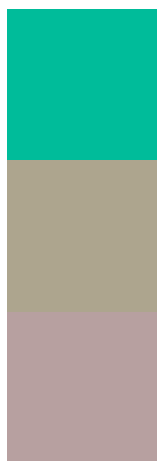


This preview shows how white text looks on a background with the XYZ color 23.8160, 38.2995,

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

23.8160, 38.2995, 36.7092

Protanopia

35.5712, 37.7475, 31.0024

Deuteranopia

38.4444, 37.7470, 38.5174



Tritanopia

28.3815, 38.2993, 58.7200

Trichromacy



Original Color

23.8160, 38.2995, 36.7092



Protanomaly

26.5623, 35.2775, 32.6034



Deuteranomaly

27.7487, 34.9311, 37.6276



Tritanomaly

26.1741, 37.9745, 49.6664

Monochromacy



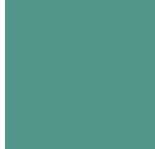
Original Color

23.8160, 38.2995, 36.7092



Achromatopsia

20.5175, 21.5861, 23.5072



Achromatomaly

18.8150, 25.3682, 27.5718

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8160, 38.2995, 36.7092 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, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 188, 154)  
}
```

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, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 188, 154) }
```

Border

The CSS property to change the border of an element to XYZ 23.8160, 38.2995, 36.7092 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, 154) }
```


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

```
.border{ border-color:rgb(0, 188, 154) }
```

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, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 188, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 188, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 188,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8160, 38.2995, 36.7092 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, 154) }
```

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

```
.background{ background-color: rgb(0, 188,  
154) }
```

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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