

Converting Colors

XYZ(13.0790, 32.6174, 37.3306)

Have a look what the booklet for
XYZ(13.0790, 32.6174, 37.3306)
contains.

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Color

**XYZ(24.0690, 38.4008,
38.0418)**

Conversions

Conversions Part 1

Format	Color
Hex	00BC9D
RGB	0, 188, 157
RGB Percent	0%, 74%, 62%
CMY	0.9999, 0.2627, 0.3843
CMYK	1.00, 0.00, 0.16, 0.26
HSL	170°, 100%, 37%
HSV	170°, 100%, 74%
XYZ	24.0690, 38.4008, 38.0418
YIQ	128.2540, -102.0970, -49.4970

Conversions

Conversions Part 2

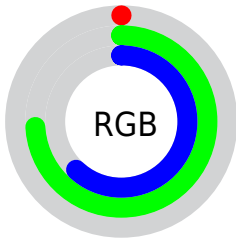
Format	Color
RYB	0, 102, 188
Decimal	48285
CIELab	68.31, -47.09, 4.51
CIElCh	68, 47.310, 174.533
Yxy	38.4008, 0.2395, 0.3821
Android (android.graphics.Color)	4278238365 (0xFF00BC9D)
YUV	128.2540, 14.1718, -112.4788
Hunter-Lab	61.9684, -39.1139, 6.9803

Details

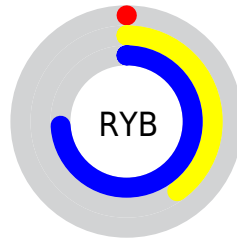
The XYZ color **24.0690, 38.4008, 38.0418** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **20.9877, 10.7913, 2.2747**, and the grayscale version is **20.5864, 21.6585, 23.5861**.

A 20% lighter version of the original color is **49.5559, 72.6606, 73.0411**, and **11.1266, 18.0908, 16.5411** is the 20% darker color. If you saturate the color by 10%, you get **24.0695, 38.4020, 38.0411**, and if you desaturate by 10%, it is **24.6031, 38.6461, 39.4672**.

Distribution



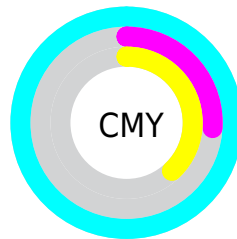
- Red (0%)
- Green (74%)
- Blue (62%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (26%)





- Cyan (100%)
- Magenta (26%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 24.0690, 38.4008, 38.0418 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 24.0690, 38.4008, 38.0418 by changing the saturation by 10% instead.


 24.0690, 38.4008,
38.0418


 24.0690, 38.4008,
38.0418


265.6031,
339.3362, 353.1028


 15.5098, 26.2939,
25.7130


 49.5966, 72.7220,
73.3763


 9.2666, 17.0436,
16.3853

 67.2958, 95.7052,
97.2192


 4.9740, 10.2656,
9.6399


 88.7723, 123.0825,
125.7372

 2.2666, 5.5754,
5.0584

 114.3916,
155.2385, 159.3488

 0.7775, 2.5887,
2.2222

 144.5190,
192.5574, 198.4727

 0.0000, 0.9210,
0.6871

179.5198,

 0.0000, 0.0000,

235.4238, 243.5273

0.0000

219.7594,
284.2219, 294.9311

■ 24.0690, 38.4008,
38.0418

■ 24.0690, 38.4008,
38.0418

■ 24.0695, 38.4020,
38.0411

■ 24.6031, 38.6461,
39.4672

■ 25.3984, 39.0243,
40.9394

■ 26.5493, 39.5851,
42.4637

■ 28.1024, 40.3524,
44.0427

■ 30.0972, 41.3466,
45.6784

■ 32.5686, 42.5857,
47.3728

■ 35.5477, 44.0858,
49.1275

■ 39.0631, 45.8615,
50.9440

■ 43.1413, 47.9264,
52.8239

Harmonies

Analogous

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



26.0771, 38.4008, 22.3166



24.0690, 38.4008, 38.0418



25.0067, 38.4008, 61.1553

Triad

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



24.0690, 38.4008, 38.0418



42.7429, 38.4008, 91.0288



45.4099, 38.4008, 16.5983

Complementary

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



24.0690, 38.4008, 38.0418



20.9877, 10.7913, 2.2747

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.



51.0622, 38.4008, 27.0493



24.0690, 38.4008, 38.0418



49.3822, 38.4008, 70.2530

Square

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



24.0690, 38.4008, 38.0418



35.1575, 38.4008, 97.0347



52.6060, 38.4008, 45.8233



37.8738, 38.4008, 12.9185

Rectangle

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



24.0690, 38.4008, 38.0418



27.2516, 38.4008, 77.4725



52.6060, 38.4008, 45.8233



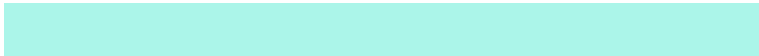
47.6318, 38.4008, 19.2199

Sweetspot

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



24.0701, 38.4023, 38.0427



64.1285, 79.7477, 88.8705



18.5597, 36.2646, 6.0222



13.2804, 16.8923, 18.8204



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.



24.0701, 38.4023, 38.0427



43.5424, 69.5641, 68.5285



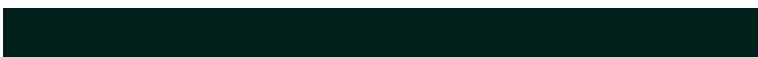
16.4548, 18.3852, 50.2602



9.7392, 10.7818, 11.8759



16.4106, 26.1545, 26.0227



0.6611, 1.0318, 1.1156

Inverse Universe

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



20.9877, 10.7913, 2.2747



37.9758, 19.5323, 3.8094



22.4999, 14.2117, 1.5579



9.5926, 9.5614, 10.2439



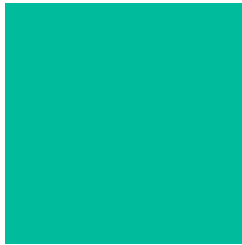
14.3075, 7.3542, 1.6470



0.5807, 0.2962, 0.1715

Previews

White Background



This preview shows how the XYZ color 24.0690, 38.4008, 38.0418 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 24.0690, 38.4008, 38.0418 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

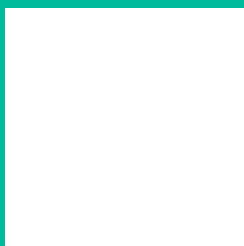
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 24.0690, 38.4008, 38.0418

Background



This preview shows how black text looks on a background with the XYZ color 24.0690, 38.4008, 38.0418.



This preview shows how white text looks on a background with the XYZ color 24.0690, 38.4008, 38.0418.

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

24.0690, 38.4008, 38.0418

Protanopia

35.7995, 37.8388, 32.2049

Deuteranopia

38.4731, 37.7310, 39.9054



Tritanopia

28.3273, 38.2714, 58.7174

Trichromacy



Original Color

24.0690, 38.4008, 38.0418



Protanomaly

26.7988, 35.3721, 33.8488



Deuteranomaly

28.0102, 35.0357, 39.0045



Tritanomaly

26.2437, 37.9985, 50.2072

Monochromacy



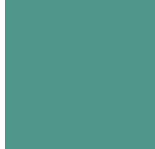
Original Color

24.0690, 38.4008, 38.0418



Achromatopsia

20.5175, 21.5861, 23.5072



Achromatomaly

18.9599, 25.4261, 28.3345

CSS Examples

Text

The CSS property to change the color of the text to XYZ 24.0690, 38.4008, 38.0418 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, 157)` looks like.

```
.text, #text, p{  
    color:rgb(0, 188, 157)  
}
```

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, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 188, 157) }
```

Border

The CSS property to change the border of an element to XYZ 24.0690, 38.4008, 38.0418 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, 157) }
```


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

```
.border{ border-color:rgb(0, 188, 157) }
```

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, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 188, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 188, 157);  
box-shadow:4px 4px 4px 4px rgb(0, 188,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 24.0690, 38.4008, 38.0418 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, 157) }
```

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

```
.background{ background-color: rgb(0, 188,  
157) }
```

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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