

Converting Colors

XYZ(12.7387, 28.4045, 46.6461)

Have a look what the booklet for
XYZ(12.7387, 28.4045, 46.6461)
contains.

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Color

**XYZ(23.2658, 33.8343,
46.8994)**

Conversions

Conversions Part 1

Format	Color
Hex	00AFB1
RGB	0, 175, 177
RGB Percent	0%, 69%, 69%
CMY	0.9999, 0.3137, 0.3059
CMYK	1.00, 0.01, 0.00, 0.31
HSL	181°, 100%, 35%
HSV	181°, 100%, 69%
XYZ	23.2658, 33.8343, 46.8994
YIQ	122.9030, -104.9420, -36.4780

Conversions

Conversions Part 2

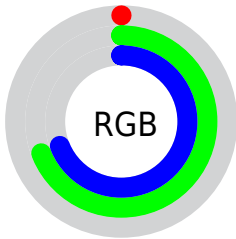
Format	Color
RYB	0, 88, 177
Decimal	44977
CIELab	64.83, -35.64, -11.68
CIELCh	65, 37.500, 198.146
Yxy	33.8343, 0.2237, 0.3253
Android (android.graphics.Color)	4278235057 (0xFF00AFB1)
YUV	122.9030, 26.6698, -107.7859
Hunter-Lab	58.1673, -30.3961, -7.0876

Details

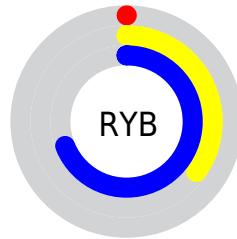
The XYZ color **23.2658, 33.8343, 46.8994** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **18.1540, 9.3914, 0.8569**, and the grayscale version is **18.7382, 19.7140, 21.4686**.

A 20% lighter version of the original color is **48.3209, 65.6317, 87.2122**, and **10.6612, 15.3997, 21.8126** is the 20% darker color. If you saturate the color by 10%, you get **23.2663, 33.8352, 46.9002**, and if you desaturate by 10%, it is **23.5499, 34.0393, 46.9246**.

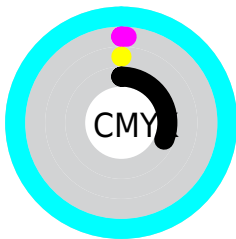
Distribution



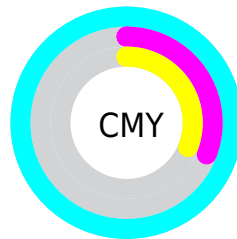
- Red (0%)
- Green (69%)
- Blue (69%)



- Red (0%)
- Yellow (35%)
- Blue (69%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (31%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2658, 33.8343, 46.8994 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 23.2658, 33.8343, 46.8994 by changing the saturation by 10% instead.

■ 23.2658, 33.8343,
46.8994

■ 23.2658, 33.8343,
46.8994

261.5972,
319.3926, 390.7950

■ 14.9117, 22.7663,
32.6024

■ 48.2929, 65.6759,
86.9118

■ 8.8433, 14.4211,
21.5534

■ 65.6965, 87.2183,
113.4643

■ 4.6954, 8.4141,
13.3339

■ 86.8473, 113.0211,
144.9390

■ 2.1026, 4.3610,
7.5255

■ 112.1107,
143.4684, 181.7545

■ 0.6906, 1.8775,
3.7095

■ 141.8521,
178.9449, 224.3293

■ 0.0000, 0.5348,
1.4673

■ 176.4367,

■ 0.0000, 0.0000,

219.8348, 273.0820

0.1934

216.2299,
266.5226, 328.4310

■ 0.0000, 0.0000,
0.0000

■ 23.2658, 33.8343,
46.8994

■ 23.2658, 33.8343,
46.8994

■ 23.2663, 33.8352,
46.9002

■ 23.5499, 34.0393,
46.9246

■ 24.0523, 34.3562,
46.9593

■ 24.8587, 34.8298,
47.0082

■ 26.0089, 35.4809,
47.0733

■ 27.5369, 36.3267,
47.1560

■ 29.4727, 37.3829,
47.2578

■ 31.8429, 38.6631,
47.3800

■ 34.6723, 40.1801,
47.5237

■ 37.9835, 41.9456,
47.6900

Harmonies

Analogous

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



23.0289, 33.8343, 31.0622



23.2658, 33.8343, 46.8994



25.7156, 33.8343, 63.7268

Triad

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



23.2658, 33.8343, 46.8994



40.5296, 33.8343, 60.4585



34.3391, 33.8343, 14.7269

Complementary

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



23.2658, 33.8343, 46.8994



18.1540, 9.3914, 0.8569

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.



39.5965, 33.8343, 18.8319



23.2658, 33.8343, 46.8994



43.4291, 33.8343, 43.2927

Square

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



23.2658, 33.8343, 46.8994



35.5020, 33.8343, 72.9416



43.0697, 33.8343, 28.3325



29.0317, 33.8343, 15.1901

Rectangle

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



23.2658, 33.8343, 46.8994



28.4459, 33.8343, 71.9087



43.0697, 33.8343, 28.3325



36.1808, 33.8343, 15.5577

Sweetspot

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



23.2668, 33.8356, 46.9002



56.7829, 69.1110, 84.8423



15.7230, 31.4450, 5.2418



11.9106, 14.7645, 18.3664



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.



23.2668, 33.8356, 46.9002



41.6568, 60.5731, 83.9915



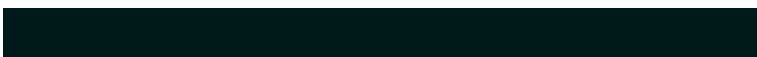
11.4687, 10.2393, 42.9675



8.7343, 9.6147, 10.9018



16.8602, 24.5208, 33.9814



0.5331, 0.7767, 1.0701

Inverse Universe

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



25.8702, 12.4432, 41.5971



46.3253, 22.2814, 74.4657



21.6643, 16.4120, 2.0270



8.8458, 8.6450, 10.6865



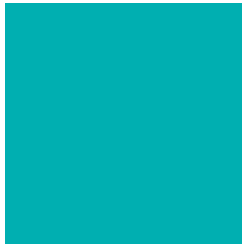
18.7449, 9.0155, 30.1464



0.5911, 0.2842, 0.9554

Previews

White Background



This preview shows how the XYZ color 23.2658, 33.8343, 46.8994 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 23.2658, 33.8343, 46.8994 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

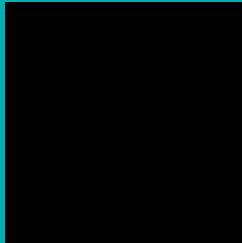
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

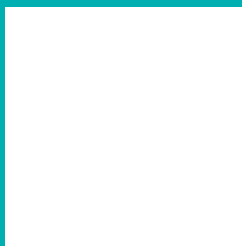
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.2658, 33.8343, 46.8994

Background



This preview shows how black text looks on a background with the XYZ color 23.2658, 33.8343, 46.8994.

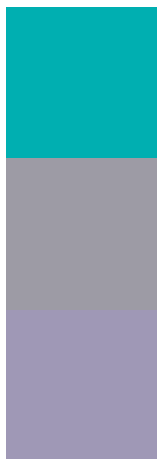


This preview shows how white text looks on a background with the XYZ color 23.2658, 33.8343,

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

23.2658, 33.8343, 46.8994

Protanopia

32.4175, 33.3274, 40.3216

Deuteranopia

33.9698, 33.2048, 48.8747



Tritanopia

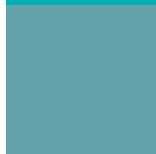
24.4486, 33.7510, 52.2397

Trichromacy



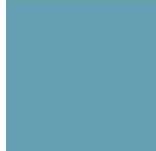
Original Color

23.2658, 33.8343, 46.8994



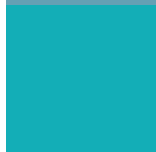
Protanomaly

25.3373, 31.4146, 42.2643



Deuteranomaly

26.1759, 31.2036, 47.8233



Tritanomaly

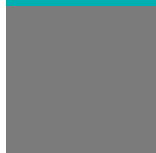
23.9519, 33.8294, 50.0671

Monochromacy



Original Color

23.2658, 33.8343, 46.8994



Achromatopsia

18.8265, 19.8069, 21.5697



Achromatomaly

17.7728, 22.9489, 29.4794

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.2658, 33.8343, 46.8994 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, 175, 177)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 177)  
}
```

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, 175, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 177) }
```

Border

The CSS property to change the border of an element to XYZ 23.2658, 33.8343, 46.8994 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, 175, 177) }
```


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

```
.border{ border-color:rgb(0, 175, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 175, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 177);  
box-shadow:4px 4px 4px 4px rgb(0, 175,  
177) }
```

Background

The CSS property to change the background color of an element to XYZ 23.2658, 33.8343, 46.8994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 177) }
```

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

```
.background{ background-color: rgb(0, 175,  
177) }
```

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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