

Converting Colors

XYZ(20.4755, 41.3826, 46.3124)

Have a look what the booklet for
XYZ(20.4755, 41.3826, 46.3124)
contains.

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Color

**XYZ(28.8988, 45.7290,
46.8386)**

Conversions

Conversions Part 1

Format	Color
Hex	00CBAD
RGB	0, 203, 173
RGB Percent	0%, 80%, 68%
CMY	0.9999, 0.2039, 0.3216
CMYK	1.00, 0.00, 0.15, 0.20
HSL	171°, 100%, 40%
HSV	171°, 100%, 80%
XYZ	28.8988, 45.7290, 46.8386
YIQ	138.8830, -111.3580, -52.3660

Conversions

Conversions Part 2

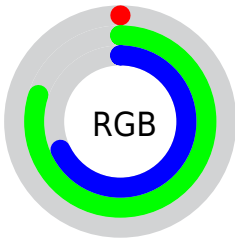
Format	Color
RYB	0, 110, 203
Decimal	52141
CIELab	73.37, -49.00, 3.11
CIELCh	73, 49.096, 176.371
Yxy	45.7290, 0.2379, 0.3765
Android (android.graphics.Color)	4278242221 (0xFF00CBAD)
YUV	138.8830, 16.8197, -121.8004
Hunter-Lab	67.6232, -42.0586, 6.2696

Details

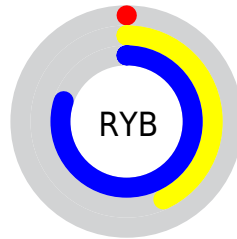
The XYZ color **28.8988, 45.7290, 46.8386** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **24.8647, 12.7917, 2.3894**, and the grayscale version is **24.4683, 25.7426, 28.0337**.

A 20% lighter version of the original color is **55.3571, 80.0050, 85.9237**, and **14.0411, 22.5603, 21.7037** is the 20% darker color. If you saturate the color by 10%, you get **28.8991, 45.7303, 46.8369**, and if you desaturate by 10%, it is **29.4888, 46.0003, 48.4002**.

Distribution



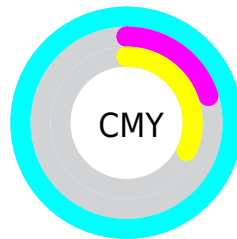
- Red (0%)
- Green (80%)
- Blue (68%)



- Red (0%)
- Yellow (43%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (15%)
- Black (20%)





- Cyan (100%)
- Magenta (20%)
- Yellow (32%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 28.8988, 45.7290, 46.8386 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 28.8988, 45.7290, 46.8386 by changing the saturation by 10% instead.


 28.8988, 45.7290,
46.8386


 28.8988, 45.7290,
46.8386


288.7400,
369.7181, 390.5450

 19.1482, 32.0320,
32.5546


 57.3149, 83.8133,
86.8201


 11.8820, 21.3860,
21.5172


 76.7112, 108.9694,
113.3548

 6.7350, 13.4064,
13.3077


 100.0533,
138.7139, 144.8100

 3.3418, 7.7090,
7.5075

 127.7067,
173.4314, 181.6045

 1.3370, 3.9093,
3.6983

 160.0367,
213.5062, 224.1567

 0.2106, 1.6230,
1.4613

197.4087,

 0.0000, 0.3730,

259.3226, 272.8851

0.1889

240.1880,
311.2651, 328.2084

■ 0.0000, 0.0000,
0.0000

■ 28.8988, 45.7290,
46.8386

■ 28.8988, 45.7290,
46.8386

■ 28.8991, 45.7303,
46.8369

■ 29.4888, 46.0003,
48.4002

■ 30.3937, 46.4321,
50.0098

■ 31.7212, 47.0810,
51.6736

■ 33.5278, 47.9761,
53.3946

■ 35.8616, 49.1422,
55.1751

■ 38.7644, 50.6009,
57.0174

■ 42.2741, 52.3717,
58.9234

■ 46.4251, 54.4723,
60.8949

■ 51.2494, 56.9192,
62.9337

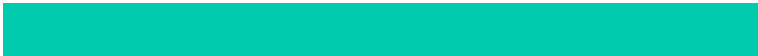
Harmonies

Analogous

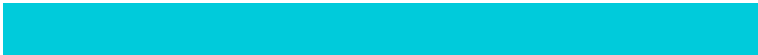
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



31.0432, 45.7290, 27.8100



28.8988, 45.7290, 46.8386



30.2102, 45.7290, 74.0647

Triad

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



28.8988, 45.7290, 46.8386



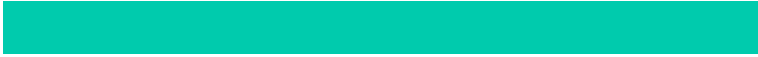
51.2714, 45.7290, 105.7647



53.3327, 45.7290, 19.7459

Complementary

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



28.8988, 45.7290, 46.8386



24.8647, 12.7917, 2.3894

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.



60.1183, 45.7290, 31.5015



28.8988, 45.7290, 46.8386



58.8218, 45.7290, 81.0750

Square

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



28.8988, 45.7290, 46.8386



42.4205, 45.7290, 113.9958



62.2485, 45.7290, 52.8652



44.5246, 45.7290, 15.7951

Rectangle

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



28.8988, 45.7290, 46.8386



32.9761, 45.7290, 92.7971



62.2485, 45.7290, 52.8652



55.9688, 45.7290, 22.6755

Sweetspot

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



28.9001, 45.7308, 46.8397



70.5175, 87.5572, 98.5266



21.9064, 42.9967, 7.1457



14.5329, 18.4577, 20.7945



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



28.9001, 45.7308, 46.8397



48.3244, 76.5458, 78.0832



19.0268, 20.8052, 59.5148



11.4692, 12.6974, 14.0283



18.4171, 29.1122, 29.9453



0.9700, 1.5098, 1.6497

Inverse Universe

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



24.8647, 12.7917, 2.3894



41.5849, 21.3980, 3.7463



26.8876, 17.2130, 1.9064



11.2788, 11.2402, 12.0027



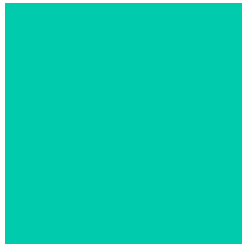
15.8436, 8.1480, 1.6294



0.8396, 0.4292, 0.2010

Previews

White Background



This preview shows how the XYZ color 28.8988, 45.7290, 46.8386 looks on a white background.

Color Contrast Check

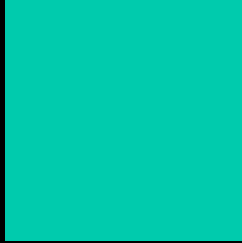
Large Text (above 18pt) WCAG AA × Fail

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 28.8988, 45.7290, 46.8386 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

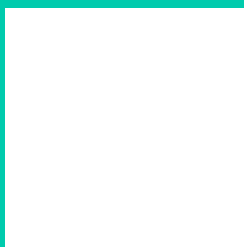
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 28.8988, 45.7290, 46.8386

Background



This preview shows how black text looks on a background with the XYZ color 28.8988, 45.7290, 46.8386.

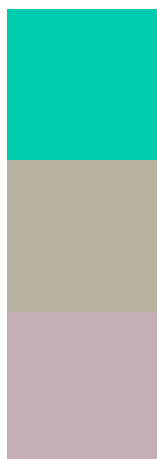


This preview shows how white text looks on a background with the XYZ color 28.8988, 45.7290,

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

28.8988, 45.7290, 46.8386

Protanopia

42.5153, 44.8180, 39.6676

Deuteranopia

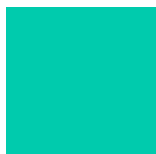
45.9467, 44.9182, 49.4284



Tritanopia

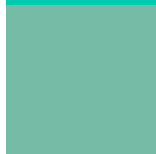
33.6638, 45.6065, 69.9794

Trichromacy



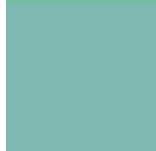
Original Color

28.8988, 45.7290, 46.8386



Protanomaly

32.0331, 42.1088, 42.0368



Deuteranomaly

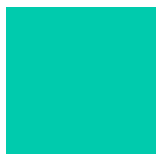
33.5337, 41.8153, 47.8987



Tritanomaly

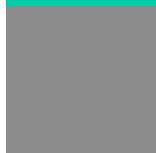
31.3440, 45.2991, 60.5177

Monochromacy



Original Color

28.8988, 45.7290, 46.8386



Achromatopsia

24.5403, 25.8183, 28.1161



Achromatomaly

22.5307, 30.1497, 33.9101

CSS Examples

Text

The CSS property to change the color of the text to XYZ 28.8988, 45.7290, 46.8386 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, 203, 173)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 173)  
}
```

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, 203, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 173) }
```

Border

The CSS property to change the border of an element to XYZ 28.8988, 45.7290, 46.8386 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, 203, 173) }
```


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

```
.border{ border-color:rgb(0, 203, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 203, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 173);  
box-shadow:4px 4px 4px 4px rgb(0, 203,  
173) }
```

Background

The CSS property to change the background color of an element to XYZ 28.8988, 45.7290, 46.8386 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 173) }
```

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

```
.background{ background-color: rgb(0, 203,  
173) }
```

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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