

# Converting Colors

XYZ(28.6831, 41.7650, 45.5633)

Have a look what the booklet for  
XYZ(28.6831, 41.7650, 45.5633)  
contains.

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# Color

**XYZ(28.7503, 41.9430,  
45.6102)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45C0AC
RGB	69, 192, 172
RGB Percent	27%, 75%, 67%
CMY	0.7294, 0.2470, 0.3255
CMYK	0.64, 0.00, 0.10, 0.25
HSL	170°, 49%, 51%
HSV	170°, 64%, 75%
XYZ	28.7503, 41.9430, 45.6102
YIQ	152.9430, -66.8880, -32.2960

# Conversions

## Conversions Part 2

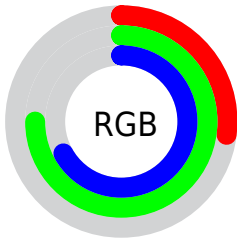
Format	Color
<a href="#">RYB</a>	69, 136, 192
Decimal	4571308
CIELab	70.83, -38.64, 0.06
CIELCh	71, 38.636, 179.905
Yxy	41.9430, 0.2472, 0.3606
Android (android.graphics.Color)	4282761388 (0xFF45C0AC)
YUV	152.9430, 9.3951, -73.6180
Hunter-Lab	64.7634, -34.0948, 3.5789

# Details

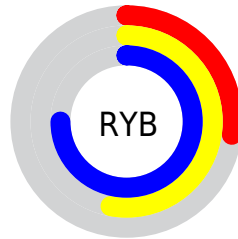
The XYZ color **28.7503, 41.9430, 45.6102** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle muted spring green. A complement of this color would be **25.6710, 16.1853, 11.2240**, and the grayscale version is **30.2360, 31.8107, 34.6418**.

A 20% lighter version of the original color is **57.1009, 78.1227, 84.7427**, and **12.4786, 19.5330, 20.8819** is the 20% darker color. If you saturate the color by 10%, you get **27.3062, 41.2338, 43.9963**, and if you desaturate by 10%, it is **30.6444, 42.8854, 47.2838**.

# Distribution



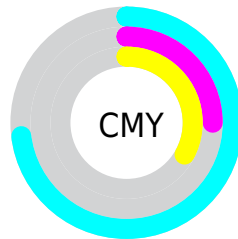
- Red (27%)
- Green (75%)
- Blue (67%)



- Red (27%)
- Yellow (53%)
- Blue (75%)



- Cyan (64%)
- Magenta (0%)
- Yellow (10%)
- Black (25%)



- Cyan (73%)
- Magenta (25%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.7503, 41.9430, 45.6102 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 28.7503, 41.9430, 45.6102 by changing the saturation by 10% instead.



■ 28.7503, 41.9430,  
45.6102

■ 28.7503, 41.9430,  
45.6102

288.0505,  
354.2466, 385.4713

■ 19.0353, 29.0567,  
31.5919

■ 57.0804, 78.1134,  
84.9635

■ 11.8000, 19.1237,  
20.7877

■ 76.4263, 102.1662,  
111.1355

■ 6.6789, 11.7597,  
12.7792

■ 99.7132, 130.7099,  
142.1958

■ 3.3066, 6.5803,  
7.1477

■ 127.3065,  
164.1290, 178.5630

■ 1.3179, 3.2010,  
3.4748

■ 159.5715,  
202.8078, 220.6556

■ 0.1966, 1.2376,  
1.3419

196.8736,

■ 0.0000, 0.0921,

247.1307, 268.8922

0.0958

239.5781,  
297.4822, 323.6912

■ 0.0000, 0.0000,  
0.0000

■ 28.7503, 41.9430,  
45.6102

■ 28.7503, 41.9430,  
45.6102

■ 27.3062, 41.2338,  
43.9963

■ 30.6444, 42.8854,  
47.2838

■ 26.2642, 40.7301,  
42.4369

■ 33.0233, 44.0759,  
49.0161

■ 25.5719, 40.4058,  
40.9302

■ 35.9226, 45.5338,  
50.8101

■ 25.2639, 40.2660,  
40.0570

■ 39.3734, 47.2752,  
52.6674

■ 43.4044, 49.3149,  
54.5896

■ 48.0422, 51.6666,  
56.5782

■ 53.3119, 54.3431,  
58.6346

■ 59.2370, 57.3568,  
60.7602

■ 65.8400, 60.7189,  
62.9561

# Harmonies

## Analogous

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



30.1096, 41.9430, 30.1346



28.7503, 41.9430, 45.6102



30.0926, 41.9430, 65.6622

# Triad

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



28.7503, 41.9430, 45.6102



46.3430, 41.9430, 83.6868



46.3822, 41.9430, 21.3997

# Complementary

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



28.7503, 41.9430, 45.6102



25.6710, 16.1853, 11.2240

# 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.



51.5539, 41.9430, 30.2116



28.7503, 41.9430, 45.6102



51.5296, 41.9430, 65.7917

# Square

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



28.7503, 41.9430, 45.6102



39.8451, 41.9430, 90.9362



53.5297, 41.9430, 45.7274



39.8860, 41.9430, 18.6511



# Rectangle

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



28.7503, 41.9430, 45.6102



32.4311, 41.9430, 78.4078



53.5297, 41.9430, 45.7274



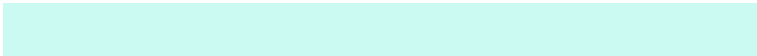
48.3574, 41.9430, 23.6094

# Sweetspot

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



28.7515, 41.9446, 45.6112



74.6791, 87.3457, 97.0686



24.0932, 40.2793, 12.1361



15.5804, 18.5157, 20.6101



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



28.7515, 41.9446, 45.6112



48.6039, 74.2869, 78.5250



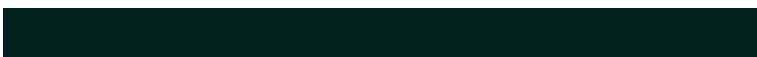
23.0367, 27.2059, 53.9080



10.2959, 11.3994, 12.5616



17.0236, 27.1035, 27.0811



0.7548, 1.1788, 1.2713



# Inverse Universe

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



25.6710, 16.1853, 11.2240



42.6688, 23.9966, 11.7832



28.3898, 22.7896, 8.5338



10.1385, 10.1040, 10.8200



14.8154, 7.6159, 1.6738

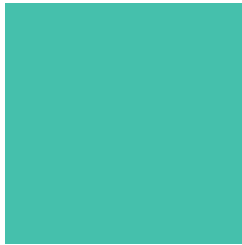


0.6615, 0.3376, 0.1851



# Previews

## White Background



This preview shows how the XYZ color 28.7503, 41.9430, 45.6102 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 28.7503, 41.9430, 45.6102 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

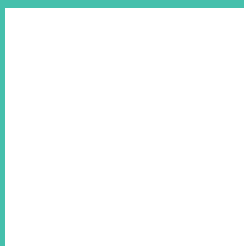
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.7503, 41.9430, 45.6102**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.7503, 41.9430, 45.6102.



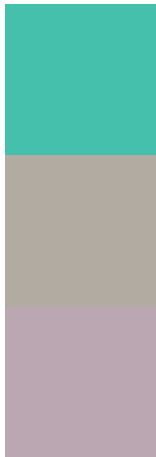
This preview shows how white text looks on a background with the XYZ color 28.7503, 41.9430,



# 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

28.7503, 41.9430, 45.6102

### Protanopia

39.3560, 41.1640, 39.5894

### Deuteranopia

42.0042, 41.2509, 47.3433



## Tritanopia

32.2424, 42.0721, 62.9213

# Trichromacy



**Original Color**

28.7503, 41.9430, 45.6102

**Protanomaly**

33.3929, 40.3601, 41.6276

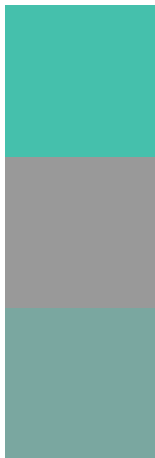
**Deuteranomaly**

34.5909, 39.9855, 46.4523

**Tritanomaly**

30.7726, 41.7787, 56.3114

# Monochromacy



**Original Color**

28.7503, 41.9430, 45.6102

**Achromatopsia**

30.2779, 31.8547, 34.6897

**Achromatomaly**

28.1899, 34.3131, 38.3950

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.7503, 41.9430, 45.6102 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(69, 192, 172)` looks like.

```
.text, #text, p{  
    color:rgb(69, 192, 172)  
}
```

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(69, 192, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 192, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 28.7503, 41.9430, 45.6102 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(69, 192, 172) }
```



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

```
.border{ border-color:rgb(69, 192, 172) }
```

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

Here you see how a box with a 4 pixel rgb(69, 192, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 192, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 192, 172);  
box-shadow:4px 4px 4px 4px rgb(69, 192,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.7503, 41.9430, 45.6102 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 192, 172) }
```

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

```
.background{ background-color: rgb(69, 192,  
172) }
```

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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