

# Converting Colors

XYZ(27.8936, 45.7060, 40.3767)

Have a look what the booklet for  
XYZ(27.8936, 45.7060, 40.3767)  
contains.

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# Color

**XYZ(27.8509, 45.6889,  
40.1518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CC9F
RGB	0, 204, 159
RGB Percent	0%, 80%, 62%
CMY	0.9999, 0.2000, 0.3765
CMYK	1.00, 0.00, 0.22, 0.20
HSL	167°, 100%, 40%
HSV	167°, 100%, 80%
XYZ	27.8509, 45.6889, 40.1518
YIQ	137.8740, -107.1390, -57.2430

# Conversions

## Conversions Part 2

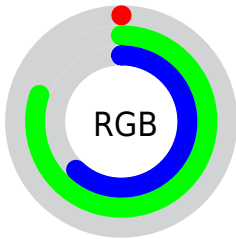
Format	Color
<a href="#">RYB</a>	<a href="#">0, 115, 204</a>
Decimal	<a href="#">52383</a>
CIELab	<a href="#">73.34, -53.00, 10.62</a>
CIELCh	<a href="#">73, 54.052, 168.670</a>
Yxy	<a href="#">45.6889, 0.2450, 0.4019</a>
Android (android.graphics.Color)	<a href="#">4278242463 (0xFF00CC9F)</a>
YUV	<a href="#">137.8740, 10.4151, -120.9155</a>
Hunter-Lab	<a href="#">67.5936, -44.7405, 12.0962</a>

# Details

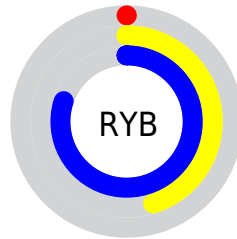
The XYZ color **27.8509, 45.6889, 40.1518** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **25.3773, 13.0282, 3.6631**, and the grayscale version is **24.1044, 25.3597, 27.6167**.

A 20% lighter version of the original color is **53.3771, 79.1998, 76.0922**, and **13.4542, 22.5776, 17.8362** is the 20% darker color. If you saturate the color by 10%, you get **27.8512, 45.6902, 40.1497**, and if you desaturate by 10%, it is **28.5470, 46.0029, 42.2617**.

# Distribution



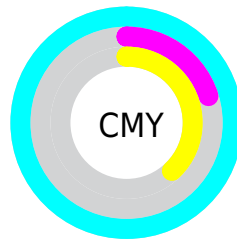
- Red (0%)
- Green (80%)
- Blue (62%)



- Red (0%)
- Yellow (45%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (22%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8509, 45.6889, 40.1518 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 27.8509, 45.6889, 40.1518 by changing the saturation by 10% instead.




 27.8509, 45.6889,  
40.1518


 27.8509, 45.6889,  
40.1518


283.8468,  
369.5565, 362.3341


 18.3532, 32.0004,  
27.3422


 55.6566, 83.7532,  
76.6342


 11.3051, 21.3618,  
17.5957


 74.6953, 108.8978,  
101.1442


 6.3412, 13.3887,  
10.4937


 97.6451, 138.6299,  
130.3913

 3.0963, 7.6968,  
5.6176

 124.8712,  
173.3339, 164.7942

 1.2049, 3.9015,  
2.5490

 156.7391,  
213.3941, 204.7714

 0.1102, 1.6186,  
0.8660

193.6141,

 0.0000, 0.3701,

259.1951, 250.7414

0.0000

235.8615,  
311.1211, 303.1228

■ 0.0000, 0.0000,  
0.0000

■ 27.8509, 45.6889,  
40.1518

■ 27.8509, 45.6889,  
40.1518

■ 27.8512, 45.6902,  
40.1497

■ 28.5470, 46.0029,  
42.2617

■ 29.5696, 46.4825,  
44.4610

■ 31.0274, 47.1847,  
46.7563

■ 32.9778, 48.1392,  
49.1513

■ 35.4694, 49.3709,  
51.6488

■ 38.5448, 50.9020,  
54.2517

■ 42.2424, 52.7520,  
56.9623

■ 46.5971, 54.9390,  
59.7831

■ 51.6414, 57.4797,  
62.7163

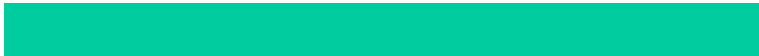
# Harmonies

## Analogous

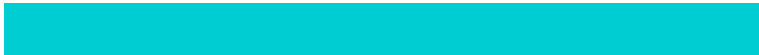
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



31.0913, 45.6889, 22.5584



27.8509, 45.6889, 40.1518



28.3039, 45.6889, 68.4649

# Triad

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



27.8509, 45.6889, 40.1518



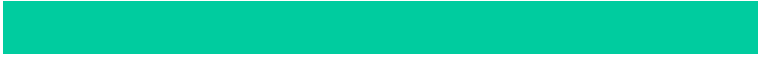
49.5463, 45.6889, 117.6814



56.6557, 45.6889, 19.8746

# Complementary

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



27.8509, 45.6889, 40.1518



25.3773, 13.0282, 3.6631

# 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.



63.1551, 45.6889, 34.7961



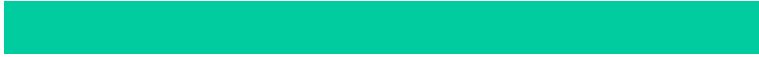
27.8509, 45.6889, 40.1518



58.6550, 45.6889, 92.9652

# Square

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



27.8509, 45.6889, 40.1518



39.9316, 45.6889, 120.7888



63.9360, 45.6889, 60.7617



47.1184, 45.6889, 14.0399



# Rectangle

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



27.8509, 45.6889, 40.1518



30.6566, 45.6889, 90.1677



63.9360, 45.6889, 60.7617



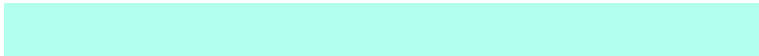
59.3244, 45.6889, 23.6757

# Sweetspot

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



27.8522, 45.6907, 40.1529



69.6856, 87.2245, 94.1462



22.7951, 43.8066, 7.2550



14.3320, 18.3773, 19.7367



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.



27.8522, 45.6907, 40.1529



46.0387, 75.6315, 66.0467



21.7442, 26.0486, 61.0105



11.4332, 12.6830, 13.8386



17.5653, 28.7714, 25.4597



0.9331, 1.4950, 1.4551



# Inverse Universe

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



25.3773, 13.0282, 3.6631



41.9602, 21.5481, 5.7224



26.2419, 15.5159, 1.6127



11.3120, 11.2535, 12.1775



16.0007, 8.2109, 2.4565

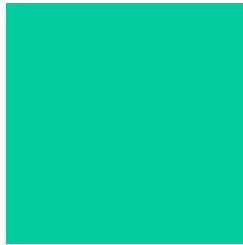


0.8548, 0.4353, 0.2813



# Previews

## White Background



This preview shows how the XYZ color 27.8509, 45.6889, 40.1518 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 27.8509, 45.6889, 40.1518 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

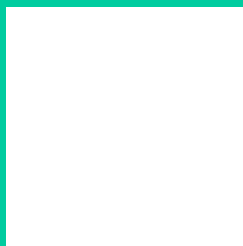
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.8509, 45.6889, 40.1518**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8509, 45.6889, 40.1518.



This preview shows how white text looks on a background with the XYZ color 27.8509, 45.6889,



# 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

27.8509, 45.6889, 40.1518

### Protanopia

42.0950, 44.7349, 33.6102

### Deuteranopia

45.7229, 44.6757, 42.2898



## Tritanopia

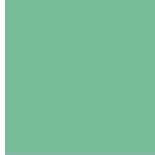
34.0264, 45.7934, 69.9964

# Trichromacy



## Original Color

27.8509, 45.6889, 40.1518



## Protanomaly

31.1020, 41.7681, 35.7010



## Deuteranomaly

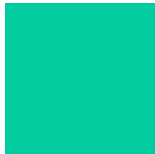
32.6534, 41.5145, 40.9424



## Tritanomaly

31.1550, 45.6099, 57.6136

# Monochromacy



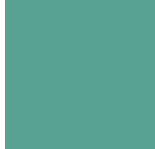
## Original Color

27.8509, 45.6889, 40.1518



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

22.1331, 29.9907, 31.8164

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8509, 45.6889, 40.1518 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, 204, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 204, 159)  
}
```

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, 204, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 204, 159) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8509, 45.6889, 40.1518 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, 204, 159) }
```



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

```
.border{ border-color:rgb(0, 204, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 204, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 204, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 204, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 204,  
159) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8509, 45.6889, 40.1518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 204, 159) }
```

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

```
.background{ background-color: rgb(0, 204,  
159) }
```

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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