

# Converting Colors

XYZ(27.7654, 45.6548, 39.7018)

Have a look what the booklet for  
XYZ(27.7654, 45.6548, 39.7018)  
contains.

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# Color

**XYZ(27.7644, 45.6544,  
39.6966)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CC9E
RGB	0, 204, 158
RGB Percent	0%, 80%, 62%
CMY	0.9999, 0.2000, 0.3804
CMYK	1.00, 0.00, 0.23, 0.20
HSL	166°, 100%, 40%
HSV	166°, 100%, 80%
XYZ	27.7644, 45.6544, 39.6966
YIQ	137.7600, -106.8180, -57.5540

# Conversions

## Conversions Part 2

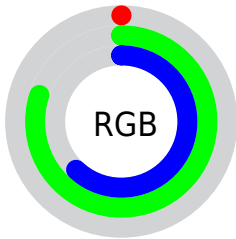
Format	Color
<a href="#">RYB</a>	<a href="#">0, 115, 204</a>
Decimal	<a href="#">52382</a>
CIELab	<a href="#">73.32, -53.25, 11.12</a>
CIELCh	<a href="#">73, 54.396, 168.199</a>
Yxy	<a href="#">45.6544, 0.2455, 0.4036</a>
Android (android.graphics.Color)	<a href="#">4278242462 (0xFF00CC9E)</a>
YUV	<a href="#">137.7600, 9.9783, -120.8155</a>
Hunter-Lab	<a href="#">67.5680, -44.8966, 12.4644</a>

# Details

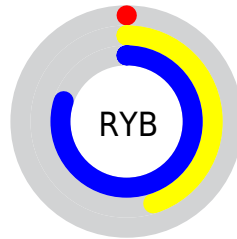
The XYZ color **27.7644, 45.6544, 39.6966** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **25.3966, 13.0358, 3.7647**, and the grayscale version is **24.0614, 25.3145, 27.5674**.

A 20% lighter version of the original color is **53.2497, 79.1489, 75.4215**, and **13.4013, 22.5564, 17.5574** is the 20% darker color. If you saturate the color by 10%, you get **27.7650, 45.6559, 39.6955**, and if you desaturate by 10%, it is **28.4661, 45.9707, 41.8368**.

# Distribution



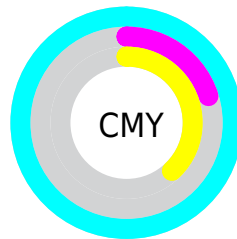
- Red (0%)
- Green (80%)
- Blue (62%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (20%)




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.7644, 45.6544, 39.6966 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 27.7644, 45.6544, 39.6966 by changing the saturation by 10% instead.



 27.7644, 45.6544,  
39.6966


 27.7644, 45.6544,  
39.6966


283.4400,  
369.4175, 360.3571


 18.2877, 31.9732,  
26.9901


 55.5194, 83.7015,  
75.9333


 11.2577, 21.3410,  
17.3334


 74.5283, 108.8363,  
100.3006


 6.3090, 13.3735,  
10.3080


 97.4454, 138.5576,  
129.3919

 3.0763, 7.6862,  
5.4954

 124.6359,  
173.2500, 163.6257

 1.1942, 3.8948,  
2.4770

 156.4653,  
213.2977, 203.4206

 0.1018, 1.6149,  
0.8279

193.2988,

 0.0000, 0.3676,

259.0853, 249.1951

0.0000

235.5019,  
310.9971, 301.3677

■ 0.0000, 0.0000,  
0.0000

■ 27.7644, 45.6544,  
39.6966

■ 27.7644, 45.6544,  
39.6966

■ 27.7650, 45.6559,  
39.6955

■ 28.4661, 45.9707,  
41.8368

■ 29.4949, 46.4527,  
44.0694

■ 30.9594, 47.1575,  
46.4015

■ 32.9172, 48.1149,  
48.8366

■ 35.4168, 49.3499,  
51.3776

■ 38.5008, 50.8843,  
54.0273

■ 42.2077, 52.7380,  
56.7884

■ 46.5724, 54.9290,  
59.6631

■ 51.6272, 57.4739,  
62.6538

# Harmonies

## Analogous

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



31.0755, 45.6544, 22.2170



27.7644, 45.6544, 39.6966



28.1608, 45.6544, 68.0429

# Triad

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



27.7644, 45.6544, 39.6966



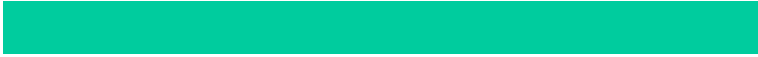
49.3947, 45.6544, 118.4191



56.8434, 45.6544, 19.8745

# Complementary

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



27.7644, 45.6544, 39.6966



25.3966, 13.0358, 3.7647

# 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.



63.3158, 45.6544, 35.0066



27.7644, 45.6544, 39.6966



58.5990, 45.6544, 93.7352

# Square

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



27.7644, 45.6544, 39.6966



39.7393, 45.6544, 121.1539



64.0018, 45.6544, 61.2795



47.2644, 45.6544, 13.9210



# Rectangle

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



27.7644, 45.6544, 39.6966



30.4844, 45.6544, 89.9171



64.0018, 45.6544, 61.2795



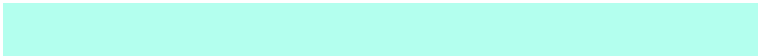
59.5116, 45.6544, 23.7328

# Sweetspot

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



27.7657, 45.6562, 39.6977



69.6306, 87.2025, 93.8567



22.7947, 43.8065, 7.2547



14.3187, 18.3720, 19.6670



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.



27.7657, 45.6562, 39.6977



45.8946, 75.5739, 65.2882



21.7437, 26.0478, 61.0106



11.4308, 12.6821, 13.8259



17.5115, 28.7499, 25.1765



0.9307, 1.4941, 1.4426



# Inverse Universe

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



25.3966, 13.0358, 3.7647



41.9912, 21.5605, 5.8860



26.2415, 15.5152, 1.6123



11.3142, 11.2544, 12.1893



16.0134, 8.2160, 2.5235

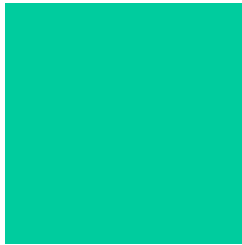


0.8558, 0.4357, 0.2867



# Previews

## White Background



This preview shows how the XYZ color 27.7644, 45.6544, 39.6966 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 27.7644, 45.6544, 39.6966 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

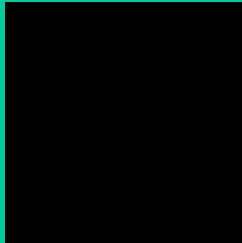
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

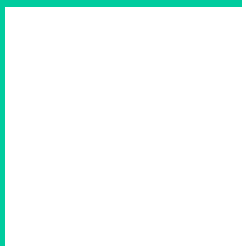
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.7644, 45.6544, 39.6966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7644, 45.6544, 39.6966.



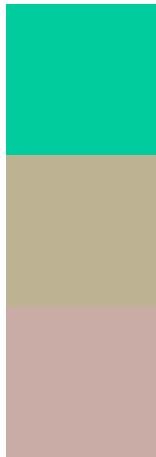
This preview shows how white text looks on a background with the XYZ color 27.7644, 45.6544,



# 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

27.7644, 45.6544, 39.6966

### Protanopia

42.0175, 44.7039, 33.2022

### Deuteranopia

45.6314, 44.6392, 41.8085



## Tritanopia

34.0908, 45.8266, 69.9994

# Trichromacy



## Original Color

27.7644, 45.6544, 39.6966



## Protanomaly

31.0211, 41.7357, 35.2750



## Deuteranomaly

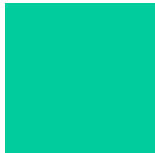
32.5642, 41.4788, 40.4723



## Tritanomaly

31.1944, 45.6302, 57.6155

# Monochromacy



## Original Color

27.7644, 45.6544, 39.6966



## Achromatopsia

24.1572, 25.4152, 27.6772



## Achromatomaly

22.0557, 29.9597, 31.4084

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7644, 45.6544, 39.6966 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, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 204, 158)  
}
```

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, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 204, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 27.7644, 45.6544, 39.6966 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, 158) }
```



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

```
.border{ border-color:rgb(0, 204, 158) }
```

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, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 204, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 204, 158);  
box-shadow:4px 4px 4px 4px rgb(0, 204,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.7644, 45.6544, 39.6966 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, 158) }
```

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

```
.background{ background-color: rgb(0, 204,  
158) }
```

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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