

# Converting Colors

XYZ(28.5229, 49.9647, 31.3377)

Have a look what the booklet for  
XYZ(28.5229, 49.9647, 31.3377)  
contains.

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# Color

**XYZ(28.4905, 49.8707,  
31.4170)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D688
RGB	0, 214, 136
RGB Percent	0%, 84%, 53%
CMY	0.9999, 0.1608, 0.4667
CMYK	1.00, 0.00, 0.36, 0.16
HSL	158°, 100%, 42%
HSV	158°, 100%, 84%
XYZ	28.4905, 49.8707, 31.4170
YIQ	141.1220, -102.5060, -69.6260

# Conversions

## Conversions Part 2

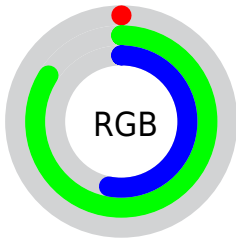
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 214
Decimal	54920
CIELab	75.99, -61.88, 26.44
CIELCh	76, 67.297, 156.862
Yxy	49.8707, 0.2595, 0.4543
Android (android.graphics.Color)	4278245000 (0xFF00D688)
YUV	141.1220, -2.5251, -123.7640
Hunter-Lab	70.6192, -51.5698, 23.0566

# Details

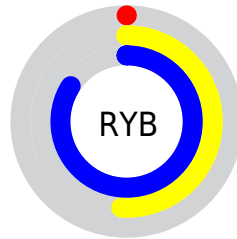
The XYZ color **28.4905, 49.8707, 31.4170** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **29.1086, 14.8474, 8.5430**, and the grayscale version is **25.4065, 26.7296, 29.1086**.

A 20% lighter version of the original color is **50.7632, 78.1808, 61.1301**, and **13.8666, 25.1096, 12.7101** is the 20% darker color. If you saturate the color by 10%, you get **28.4911, 49.8724, 31.4156**, and if you desaturate by 10%, it is **29.3847, 50.2666, 34.4604**.

# Distribution



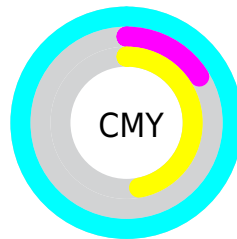
- Red (0%)
- Green (84%)
- Blue (53%)



- Red (0%)
- Yellow (51%)
- Blue (84%)



- Cyan (100%)
- Magenta (0%)
- Yellow (36%)
- Black (16%)




- Cyan (100%)
- Magenta (16%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.4905, 49.8707, 31.4170 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 28.4905, 49.8707, 31.4170 by changing the saturation by 10% instead.




 28.4905, 49.8707,  
31.4170


 28.4905, 49.8707,  
31.4170


286.8411,  
386.1601, 322.8654


 18.8381, 35.3107,  
20.6555


 56.6698, 89.9833,  
62.9833


 11.6566, 23.9023,  
12.6836


 75.9274, 116.3046,  
84.6251


 6.5809, 15.2612,  
7.0829


 99.1173, 147.3152,  
110.7307

 3.2454, 9.0029,  
3.4348

 126.6051,  
183.3993, 141.7187

 1.2848, 4.7431,  
1.3207

 158.7560,  
224.9415, 178.0076

 0.1718, 2.0973,  
0.0786

195.9354,

 0.0000, 0.6631,

272.3261, 220.0160

0.0000

238.5087,  
325.9375, 268.1624

■ 0.0000, 0.0000,  
0.0000

■ 28.4905, 49.8707,  
31.4170

■ 28.4905, 49.8707,  
31.4170

■ 28.4911, 49.8724,  
31.4156

■ 29.3847, 50.2666,  
34.4604

■ 30.6713, 50.8587,  
37.7361

■ 32.4693, 51.7096,  
41.2550

■ 34.8444, 52.8530,  
45.0241

■ 37.8518, 54.3174,  
49.0500

■ 41.5401, 56.1277,  
53.3389

■ 45.9531, 58.3063,  
57.8965

■ 51.1305, 60.8738,  
62.7285

■ 57.1095, 63.8491,  
67.8401

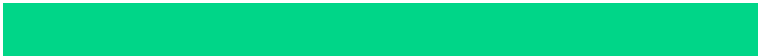
# Harmonies

## Analogous

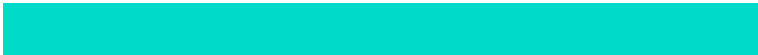
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.3462, 49.8707, 15.6481



28.4905, 49.8707, 31.4170



27.2495, 49.8707, 62.9854

# Triad

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



28.4905, 49.8707, 31.4170



50.3433, 49.8707, 155.8962



69.4514, 49.8707, 22.4945

# Complementary

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



28.4905, 49.8707, 31.4170



29.1086, 14.8474, 8.5430

# 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.



75.6274, 49.8707, 46.4534



28.4905, 49.8707, 31.4170



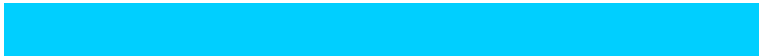
63.4033, 49.8707, 130.5015

# Square

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



28.4905, 49.8707, 31.4170



38.5354, 49.8707, 145.8877



73.2383, 49.8707, 86.2413



57.5308, 49.8707, 12.3143



# Rectangle

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



28.4905, 49.8707, 31.4170



28.9653, 49.8707, 91.9036



73.2383, 49.8707, 86.2413



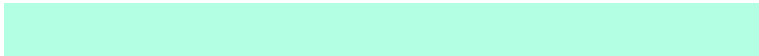
72.3558, 49.8707, 28.6738

# Sweetspot

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



28.4918, 49.8727, 31.4182



68.1160, 86.5966, 85.8806



27.2289, 49.7350, 8.1652



13.9556, 18.2268, 17.7548



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.



28.4918, 49.8727, 31.4182



42.2859, 74.1304, 46.2848



29.5862, 39.7512, 69.7341



12.5912, 14.0275, 14.9276



17.2719, 30.1641, 19.2595



1.0809, 1.8350, 1.3677



# Inverse Universe

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



29.1086, 14.8474, 8.5430



43.2136, 22.0495, 12.3231



28.1611, 15.1535, 1.4412



12.6085, 12.4949, 13.8785



17.6391, 8.9919, 5.4034

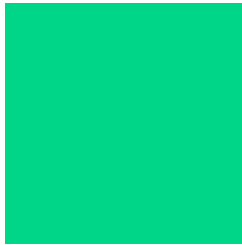


1.1031, 0.5580, 0.5321



# Previews

## White Background



This preview shows how the XYZ color 28.4905, 49.8707, 31.4170 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 28.4905, 49.8707, 31.4170 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 28.4905, 49.8707, 31.4170**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.4905, 49.8707, 31.4170.



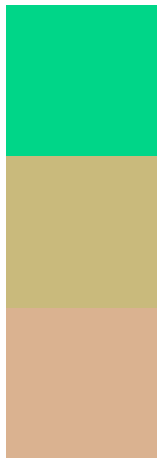
This preview shows how white text looks on a background with the XYZ color 28.4905, 49.8707,



# 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

28.4905, 49.8707, 31.4170

### Protanopia

45.2844, 48.9906, 26.1382

### Deuteranopia

49.8679, 48.7598, 33.1688



## Tritanopia

37.4916, 49.8895, 75.3638

# Trichromacy



## Original Color

28.4905, 49.8707, 31.4170



## Protanomaly

32.5383, 45.6276, 27.5141



## Deuteranomaly

34.0860, 44.6737, 32.0257



## Tritanomaly

32.9601, 49.4143, 55.9448

# Monochromacy



## Original Color

28.4905, 49.8707, 31.4170



## Achromatopsia

25.3171, 26.6356, 29.0061



## Achromatomaly

22.8793, 32.0430, 29.4052

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.4905, 49.8707, 31.4170 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, 214, 136)` looks like.

```
.text, #text, p{  
    color:rgb(0, 214, 136)  
}
```

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, 214, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 214, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 28.4905, 49.8707, 31.4170 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, 214, 136) }
```



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

```
.border{ border-color:rgb(0, 214, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 214, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 214, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 214, 136);  
box-shadow:4px 4px 4px 4px rgb(0, 214,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.4905, 49.8707, 31.4170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 214, 136) }
```

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

```
.background{ background-color: rgb(0, 214,  
136) }
```

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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