

# Converting Colors

XYZ(28.2780, 48.8409, 33.2108)

Have a look what the booklet for  
XYZ(28.2780, 48.8409, 33.2108)  
contains.

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# Color

**XYZ(28.3512, 49.0101,  
33.1649)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D48D
RGB	0, 212, 141
RGB Percent	0%, 83%, 55%
CMY	0.9999, 0.1686, 0.4471
CMYK	1.00, 0.00, 0.33, 0.17
HSL	160°, 100%, 42%
HSV	160°, 100%, 83%
XYZ	28.3512, 49.0101, 33.1649
YIQ	140.5180, -103.5610, -67.0250

# Conversions

## Conversions Part 2

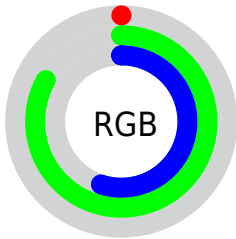
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 127, 212
Decimal	54413
CIELab	75.46, -60.14, 23.12
CIELCh	75, 64.427, 158.971
Yxy	49.0101, 0.2565, 0.4434
Android (android.graphics.Color)	4278244493 (0xFF00D48D)
YUV	140.5180, 0.2376, -123.2343
Hunter-Lab	70.0072, -50.2245, 20.9173

# Details

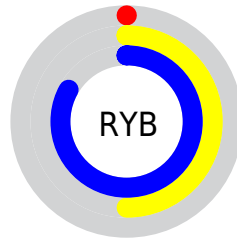
The XYZ color **28.3512, 49.0101, 33.1649** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **28.2906, 14.4532, 7.2632**, and the grayscale version is **25.1598, 26.4700, 28.8259**.

A 20% lighter version of the original color is **51.3192, 78.4032, 64.0583**, and **13.7339, 24.5151, 13.6809** is the 20% darker color. If you saturate the color by 10%, you get **28.3518, 49.0117, 33.1636**, and if you desaturate by 10%, it is **29.2117, 49.3920, 36.0536**.

# Distribution



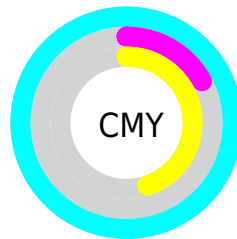
- Red (0%)
- Green (83%)
- Blue (55%)



- Red (0%)
- Yellow (50%)
- Blue (83%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (17%)



- Cyan (100%)
- Magenta (17%)
- Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.3512, 49.0101, 33.1649 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 28.3512, 49.0101, 33.1649 by changing the saturation by 10% instead.





 28.3512, 49.0101,  
33.1649


 28.3512, 49.0101,  
33.1649


286.1910,  
382.7821, 331.0469


 18.7324, 34.6275,  
21.9806

 56.4494, 88.7065,  
65.7519


 11.5799, 23.3761,  
13.6445

 75.6595, 114.7890,  
87.9917


 6.5285, 14.8714,  
7.7379


 98.7973, 145.5403,  
114.7537

 3.2127, 8.7292,  
3.8423

 126.2284,  
181.3448, 146.4566

 1.2672, 4.5650,  
1.5393

 158.3179,  
222.5868, 183.5188

 0.1585, 1.9944,  
0.2469

195.4313,

 0.0000, 0.6042,

269.6507, 226.3589

0.0000

237.9339,  
322.9210, 275.3954

■ 0.0000, 0.0000,  
0.0000

■ 28.3512, 49.0101,  
33.1649

■ 28.3512, 49.0101,  
33.1649

■ 28.3518, 49.0117,  
33.1636

■ 29.2117, 49.3920,  
36.0536

■ 30.4500, 49.9633,  
39.1391

■ 32.1827, 50.7855,  
42.4308

■ 34.4739, 51.8915,  
45.9349

■ 37.3773, 53.3088,  
49.6569

■ 40.9402, 55.0620,  
53.6018

■ 45.2052, 57.1727,  
57.7744

■ 50.2111, 59.6610,  
62.1795

■ 55.9938, 62.5454,  
66.8213

# Harmonies

## Analogous

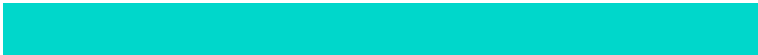
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.6443, 49.0101, 16.9533



28.3512, 49.0101, 33.1649



27.4687, 49.0101, 64.2266

# Triad

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



28.3512, 49.0101, 33.1649



50.2355, 49.0101, 147.5565



66.6912, 49.0101, 21.8914

# Complementary

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



28.3512, 49.0101, 33.1649



28.2906, 14.4532, 7.2632

# 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.



72.9803, 49.0101, 43.8003



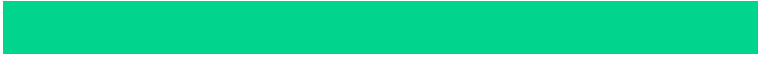
28.3512, 49.0101, 33.1649



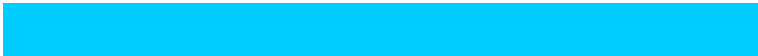
62.4738, 49.0101, 122.0822

# Square

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



28.3512, 49.0101, 33.1649



38.8582, 49.0101, 140.6606



71.3181, 49.0101, 80.4452



55.2684, 49.0101, 12.6341

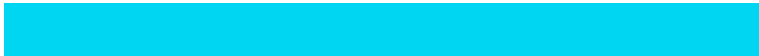


# Rectangle

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



28.3512, 49.0101, 33.1649



29.3221, 49.0101, 91.7293



71.3181, 49.0101, 80.4452



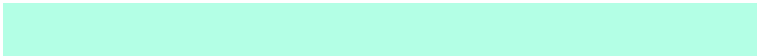
69.5570, 49.0101, 27.5379

# Sweetspot

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



28.3525, 49.0120, 33.1660



68.4307, 86.7225, 87.5377



26.3850, 48.5531, 7.9816



14.0308, 18.2568, 18.1506



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.



28.3525, 49.0120, 33.1660



42.9771, 74.4068, 49.9246



28.2472, 37.4794, 68.0352



12.6071, 14.0339, 15.0117



17.5506, 30.2756, 20.7270



1.0963, 1.8412, 1.4490



# Inverse Universe

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



28.2906, 14.4532, 7.2632



42.8960, 21.9224, 10.6503



27.6641, 15.0208, 1.4418



12.5931, 12.4887, 13.7976



17.5060, 8.9387, 4.7029

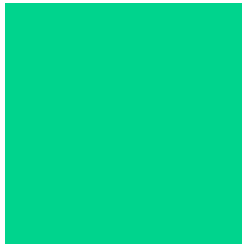


1.0938, 0.5543, 0.4835



# Previews

## White Background



This preview shows how the XYZ color 28.3512, 49.0101, 33.1649 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

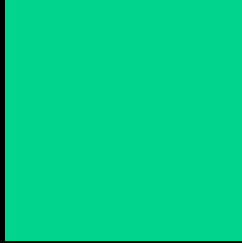
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.3512, 49.0101, 33.1649 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

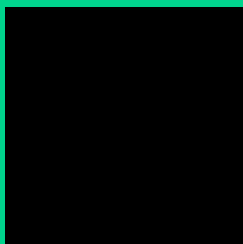
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

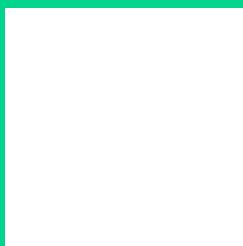
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.3512, 49.0101, 33.1649**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.3512, 49.0101, 33.1649.



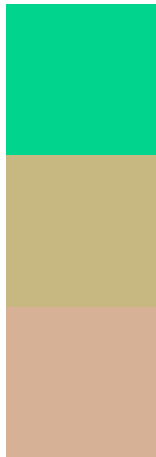
This preview shows how white text looks on a background with the XYZ color 28.3512, 49.0101,



# 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

28.3512, 49.0101, 33.1649

### Protanopia

44.6561, 48.0081, 27.6817

### Deuteranopia

48.8785, 47.9103, 35.1052



## Tritanopia

36.6544, 48.7720, 74.4999

# Trichromacy



## Original Color

28.3512, 49.0101, 33.1649



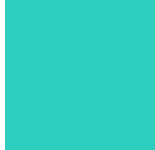
## Protanomaly

32.2778, 44.7891, 29.1342



## Deuteranomaly

33.7551, 44.1365, 33.9342



## Tritanomaly

32.6020, 48.4850, 56.9305

# Monochromacy



## Original Color

28.3512, 49.0101, 33.1649



## Achromatopsia

25.3171, 26.6356, 29.0061



## Achromatomaly

22.8429, 31.7342, 30.1207

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.3512, 49.0101, 33.1649 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, 212, 141)` looks like.

```
.text, #text, p{  
    color:rgb(0, 212, 141)  
}
```

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, 212, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 212, 141) }
```

## Border

The CSS property to change the border of an element to XYZ 28.3512, 49.0101, 33.1649 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, 212, 141) }
```



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

```
.border{ border-color:rgb(0, 212, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 212, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 212, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 212, 141);  
box-shadow:4px 4px 4px 4px rgb(0, 212,  
141) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.3512, 49.0101, 33.1649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 212, 141) }
```

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

```
.background{ background-color: rgb(0, 212,  
141) }
```

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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