

# Converting Colors

XYZ(33.8282, 55.2508, 49.5212)

Have a look what the booklet for  
XYZ(33.8282, 55.2508, 49.5212)  
contains.

<b>XYZ(33.8591, 55.3377, 49.4541)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(33.8591, 55.3377,  
49.4541)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DEAF
RGB	0, 222, 175
RGB Percent	0%, 87%, 69%
CMY	0.9999, 0.1294, 0.3137
CMYK	1.00, 0.00, 0.21, 0.13
HSL	167°, 100%, 44%
HSV	167°, 100%, 87%
XYZ	33.8591, 55.3377, 49.4541
YIQ	150.2640, -117.2250, -61.6810

# Conversions

## Conversions Part 2

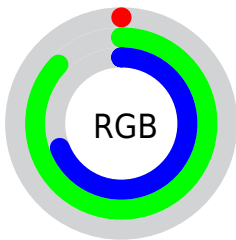
Format	Color
<a href="#">RYB</a>	<a href="#">0, 124, 222</a>
Decimal	<a href="#">57007</a>
CIELab	<a href="#">79.24, -56.05, 10.46</a>
CIELCh	<a href="#">79, 57.020, 169.427</a>
Yxy	<a href="#">55.3377, 0.2442, 0.3991</a>
Android (android.graphics.Color)	<a href="#">4278247087</a> (0xFF00DEAF)
YUV	<a href="#">150.2640, 12.1948, -131.7815</a>
Hunter-Lab	<a href="#">74.3893, -48.9351, 12.6565</a>

# Details

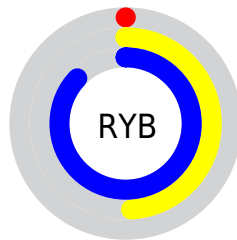
The XYZ color **33.8591, 55.3377, 49.4541** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **30.6393, 15.7363, 4.1151**, and the grayscale version is **29.0913, 30.6064, 33.3303**.

A 20% lighter version of the original color is **56.3681, 80.4777, 88.1641**, and **17.2114, 28.7025, 23.3719** is the 20% darker color. If you saturate the color by 10%, you get **33.8597, 55.3394, 49.4522**, and if you desaturate by 10%, it is **34.6661, 55.7008, 51.9456**.

# Distribution



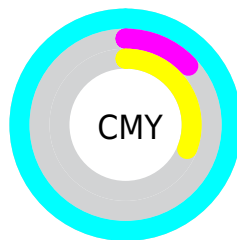
- Red (0%)
- Green (87%)
- Blue (69%)



- Red (0%)
- Yellow (49%)
- Blue (87%)



- Cyan (100%)
- Magenta (0%)
- Yellow (21%)
- Black (13%)




- Cyan (100%)
- Magenta (13%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8591, 55.3377, 49.4541 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 33.8591, 55.3377, 49.4541 by changing the saturation by 10% instead.





 33.8591, 55.3377,  
49.4541


 33.8591, 55.3377,  
49.4541


311.1003,  
407.1908, 401.2010


 22.9478, 39.6722,  
34.6117


 65.0602, 98.0356,  
90.7535


 14.6754, 27.2830,  
23.0828


 86.0808, 125.8367,  
118.0475


 8.6767, 17.7859,  
14.4488

 111.2017,  
158.4518, 150.3292

 4.5863, 10.7964,  
8.2911

 140.7884,  
196.2652, 188.0171

 2.0389, 5.9301,  
4.1914

 175.2063,  
239.6615, 231.5296

 0.6557, 2.8026,  
1.7309

214.8207,

 0.0000, 1.0296,

289.0249, 281.2855

0.3818

259.9969,  
344.7398, 337.7031

■ 0.0000, 0.0000,  
0.0000

■ 33.8591, 55.3377,  
49.4541

■ 33.8591, 55.3377,  
49.4541

■ 33.8597, 55.3394,  
49.4522

■ 34.6661, 55.7008,  
51.9456

■ 35.8736, 56.2671,  
54.5393

■ 37.6083, 57.1033,  
57.2433

■ 39.9415, 58.2462,  
60.0617

■ 42.9331, 59.7265,  
62.9980

■ 46.6357, 61.5715,  
66.0556

■ 51.0965, 63.8053,  
69.2373

■ 56.3584, 66.4501,  
72.5460

■ 62.4614, 69.5265,  
75.9844

# Harmonies

## Analogous

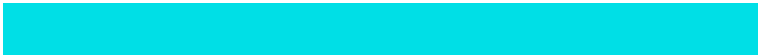
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.6432, 55.3377, 27.9532



33.8591, 55.3377, 49.4541



34.5163, 55.3377, 83.6361

# Triad

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



33.8591, 55.3377, 49.4541



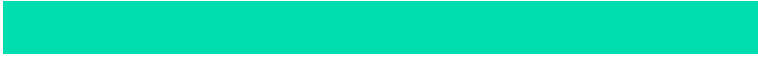
60.2289, 55.3377, 140.9538



68.1793, 55.3377, 24.0444

# Complementary

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



33.8591, 55.3377, 49.4541



30.6393, 15.7363, 4.1151

# 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.



76.0928, 55.3377, 41.6937



33.8591, 55.3377, 49.4541



71.0636, 55.3377, 110.9964

# Square

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



33.8591, 55.3377, 49.4541



48.6769, 55.3377, 145.4202



77.2186, 55.3377, 72.5203

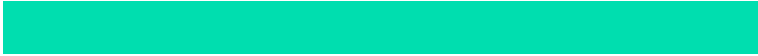


56.7218, 55.3377, 17.2151



# Rectangle

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



33.8591, 55.3377, 49.4541



37.4183, 55.3377, 109.5580



77.2186, 55.3377, 72.5203



71.4084, 55.3377, 28.5333

# Sweetspot

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



33.8606, 55.3398, 49.4554



69.7857, 87.2645, 94.6734



27.3471, 52.8759, 8.7656



14.3561, 18.3870, 19.8638



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.



33.8606, 55.3398, 49.4554



46.3033, 75.7373, 67.4400



25.6028, 30.1087, 73.5719



13.9858, 15.5200, 16.9603



20.1534, 32.8862, 29.5944



1.4284, 2.2921, 2.2171



# Inverse Universe

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



30.6393, 15.7363, 4.1151



41.9057, 21.5263, 5.4357



31.8986, 19.0766, 2.0017



13.8254, 13.7478, 14.8507



18.2312, 9.3595, 2.6171

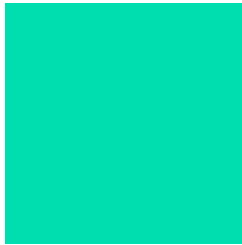


1.2965, 0.6619, 0.3540



# Previews

## White Background



This preview shows how the XYZ color 33.8591, 55.3377, 49.4541 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 33.8591, 55.3377, 49.4541 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

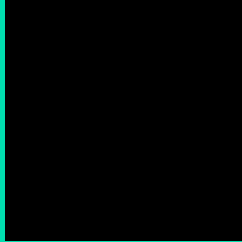
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

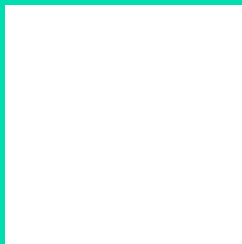
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 33.8591, 55.3377, 49.4541

## Background



This preview shows how black text looks on a background with the XYZ color 33.8591, 55.3377, 49.4541.



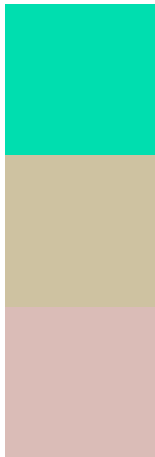
This preview shows how white text looks on a background with the XYZ color 33.8591, 55.3377,



# 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

33.8591, 55.3377, 49.4541

### Protanopia

51.1784, 54.2786, 41.4976

### Deuteranopia

55.4439, 54.2908, 52.3567



## Tritanopia

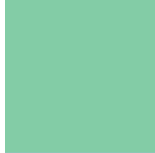
40.9960, 55.1483, 84.8279

# Trichromacy



## Original Color

33.8591, 55.3377, 49.4541



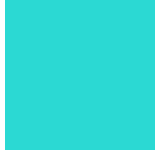
## Protanomaly

37.8359, 50.7642, 43.8807



## Deuteranomaly

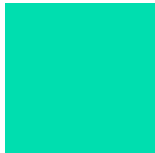
39.5400, 50.0928, 50.7649



## Tritanomaly

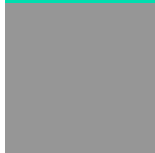
37.5670, 54.8424, 70.2337

# Monochromacy



## Original Color

33.8591, 55.3377, 49.4541



## Achromatopsia

28.9890, 30.4987, 33.2131



## Achromatomaly

26.5027, 35.9868, 38.3502

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8591, 55.3377, 49.4541 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, 222, 175)` looks like.

```
.text, #text, p{  
    color:rgb(0, 222, 175)  
}
```

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, 222, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 222, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8591, 55.3377, 49.4541 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, 222, 175) }
```



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

```
.border{ border-color:rgb(0, 222, 175) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 222, 175)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 222, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 222, 175);  
box-shadow:4px 4px 4px 4px rgb(0, 222,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8591, 55.3377, 49.4541 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 222, 175) }
```

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

```
.background{ background-color: rgb(0, 222,  
175) }
```

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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