

# Converting Colors

XYZ(32.1099, 49.5948, 42.7819)

Have a look what the booklet for  
XYZ(32.1099, 49.5948, 42.7819)  
contains.

<b>XYZ(32.1738, 49.6590, 43.0114)</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(32.1738, 49.6590,  
43.0114)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48D1A4
RGB	72, 209, 164
RGB Percent	28%, 82%, 64%
CMY	0.7176, 0.1804, 0.3569
CMYK	0.66, 0.00, 0.22, 0.18
HSL	160°, 60%, 55%
HSV	160°, 66%, 82%
XYZ	32.1738, 49.6590, 43.0114
YIQ	162.9070, -67.2070, -43.0390

# Conversions

## Conversions Part 2

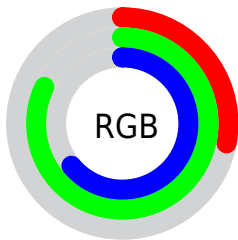
Format	Color
<a href="#">RYB</a>	<a href="#">72, 154, 209</a>
Decimal	<a href="#">4772260</a>
CIELab	<a href="#">75.86, -47.48, 11.63</a>
CIELCh	<a href="#">76, 48.886, 166.236</a>
Yxy	<a href="#">49.6590, 0.2577, 0.3978</a>
Android (android.graphics.Color)	<a href="#">4282962340 (0xFF48D1A4)</a>
YUV	<a href="#">162.9070, 0.5388, -79.7254</a>
Hunter-Lab	<a href="#">70.4691, -41.8240, 13.1403</a>

# Details

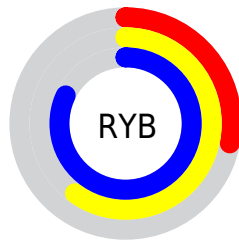
The XYZ color **32.1738, 49.6590, 43.0114** is a light color, and the websafe version is hex **33CC99**. The color can be described as light muted spring green. A complement of this color would be **31.8244, 19.4756, 18.9133**, and the grayscale version is **34.7904, 36.6022, 39.8598**.

A 20% lighter version of the original color is **58.5379, 81.7854, 79.7187**, and **14.4802, 24.2811, 19.2528** is the 20% darker color. If you saturate the color by 10%, you get **30.2693, 48.7482, 39.7734**, and if you desaturate by 10%, it is **34.6439, 50.8601, 46.4528**.

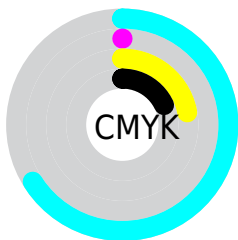
# Distribution



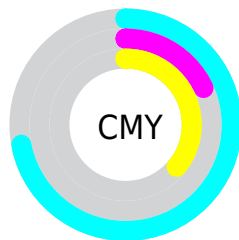
- Red (28%)
- Green (82%)
- Blue (64%)



- Red (28%)
- Yellow (60%)
- Blue (82%)



- Cyan (66%)
- Magenta (0%)
- Yellow (22%)
- Black (18%)




- Cyan (72%)
- Magenta (18%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.1738, 49.6590, 43.0114 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 32.1738, 49.6590, 43.0114 by changing the saturation by 10% instead.





 32.1738, 49.6590,  
43.0114


 32.1738, 49.6590,  
43.0114


303.6414,  
385.3309, 374.5812


 21.6505, 35.1425,  
29.5626


 62.4468, 89.6694,  
81.0146


 13.7155, 23.7727,  
19.2576


 82.9272, 115.9322,  
106.4061

 8.0034, 15.1651,  
11.6779

 107.4573,  
146.8791, 136.6155

 4.1490, 8.9353,  
6.4049

 136.4026,  
182.8947, 172.0615

 1.7867, 4.6990,  
3.0200

170.1282,  
224.3633, 213.1625

 0.5097, 2.0718,  
1.1049

208.9997,

 0.0000, 0.6487,

271.6692, 260.3371

0.0000

253.3823,  
325.1970, 314.0038

■ 0.0000, 0.0000,  
0.0000

■ 32.1738, 49.6590,  
43.0114

■ 32.1738, 49.6590,  
43.0114

■ 30.2693, 48.7482,  
39.7734

■ 34.6439, 50.8601,  
46.4528

■ 28.8696, 48.0925,  
36.7299

■ 37.7245, 52.3706,  
50.0991

■ 27.9065, 47.6582,  
33.8762

■ 41.4602, 54.2150,  
53.9561

■ 27.5608, 47.5065,  
32.6634

■ 45.8905, 56.4134,  
58.0282

■ 51.0515, 58.9843,  
62.3195

■ 56.9768, 61.9451,  
66.8342

■ 63.6978, 65.3119,  
71.5760

■ 71.2442, 69.1000,  
76.5487

■ 77.7400, 72.3422,  
81.6668

# Harmonies

## Analogous

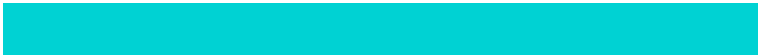
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.6659, 49.6590, 26.3061



32.1738, 49.6590, 43.0114



32.3253, 49.6590, 69.3123

# Triad

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



32.1738, 49.6590, 43.0114



52.2582, 49.6590, 117.7954



60.3539, 49.6590, 25.3723

# Complementary

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



32.1738, 49.6590, 43.0114



31.8244, 19.4756, 18.9133

# 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.



66.0530, 49.6590, 41.2444



32.1738, 49.6590, 43.0114



60.9845, 49.6590, 96.6219

# Square

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



32.1738, 49.6590, 43.0114



43.1610, 49.6590, 118.7377



66.2976, 49.6590, 66.8786



51.4822, 49.6590, 18.5619



# Rectangle

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



32.1738, 49.6590, 43.0114



34.4559, 49.6590, 89.3951



66.2976, 49.6590, 66.8786



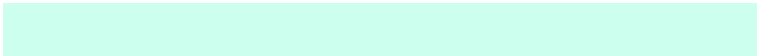
62.7514, 49.6590, 29.5454

# Sweetspot

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



32.1752, 49.6610, 43.0126



76.1308, 90.5450, 94.5441



31.3978, 49.8992, 14.1083



15.8106, 19.1390, 19.8291



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.



32.1752, 49.6610, 43.0126



46.4239, 75.9585, 60.2606



31.7767, 41.1711, 66.5959



11.9863, 13.3383, 14.2845



17.0397, 29.3088, 20.3868



0.9885, 1.6531, 1.3282



# Inverse Universe

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



31.8244, 19.4756, 18.9133



45.9117, 25.2060, 20.1266



31.5429, 22.1789, 8.7501



11.9666, 11.8714, 13.0998



16.9088, 8.6364, 4.4259

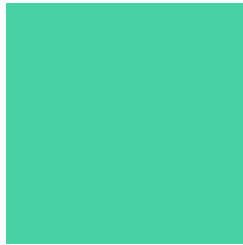


0.9818, 0.4974, 0.4388



# Previews

## White Background



This preview shows how the XYZ color 32.1738, 49.6590, 43.0114 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 32.1738, 49.6590, 43.0114 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

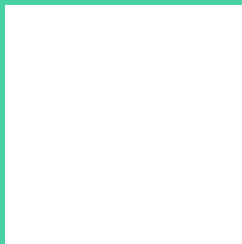
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.1738, 49.6590, 43.0114**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.1738, 49.6590, 43.0114.



This preview shows how white text looks on a background with the XYZ color 32.1738, 49.6590,



# 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

32.1738, 49.6590, 43.0114

### Protanopia

45.7814, 48.7007, 36.6930

### Deuteranopia

49.7653, 48.7358, 45.3121



## Tritanopia

38.3915, 49.6827, 73.8959

# Trichromacy



## Original Color

32.1738, 49.6590, 43.0114



## Protanomaly

38.0550, 47.5632, 38.6274



## Deuteranomaly

39.7794, 47.0250, 44.0259



## Tritanomaly

35.8621, 49.7183, 61.1325

# Monochromacy



## Original Color

32.1738, 49.6590, 43.0114



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

32.1380, 40.0327, 40.6836

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.1738, 49.6590, 43.0114 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(72, 209, 164)` looks like.

```
.text, #text, p{  
    color:rgb(72, 209, 164)  
}
```

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(72, 209, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 209, 164) }
```

## Border

The CSS property to change the border of an element to XYZ 32.1738, 49.6590, 43.0114 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(72, 209, 164) }
```



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

```
.border{ border-color:rgb(72, 209, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 209, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 209, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 209, 164);  
box-shadow:4px 4px 4px 4px rgb(72, 209,  
164) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.1738, 49.6590, 43.0114 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 209, 164) }
```

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

```
.background{ background-color: rgb(72, 209,  
164) }
```

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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