

# Converting Colors

XYZ(24.6370, 39.9994, 36.8049)

Have a look what the booklet for  
XYZ(24.6370, 39.9994, 36.8049)  
contains.

<b>XYZ(24.6824, 40.0324, 36.9980)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(24.6824, 40.0324,  
36.9980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C09A
RGB	0, 192, 154
RGB Percent	0%, 75%, 60%
CMY	0.9999, 0.2470, 0.3961
CMYK	1.00, 0.00, 0.20, 0.25
HSL	168°, 100%, 38%
HSV	168°, 100%, 75%
XYZ	24.6824, 40.0324, 36.9980
YIQ	130.2600, -102.2340, -52.5220

# Conversions

## Conversions Part 2

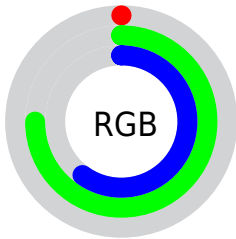
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 107, 192
Decimal	49306
CIELab	69.49, -49.51, 7.84
CIElCh	69, 50.122, 171.003
Yxy	40.0324, 0.2427, 0.3936
Android (android.graphics.Color)	4278239386 (0xFF00C09A)
YUV	130.2600, 11.7038, -114.2380
Hunter-Lab	63.2712, -41.0908, 9.6198

# Details

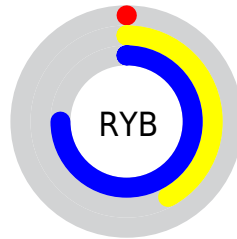
The XYZ color **24.6824, 40.0324, 36.9980** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **22.0896, 11.3475, 2.8621**, and the grayscale version is **21.2991, 22.4083, 24.4027**.

A 20% lighter version of the original color is **50.4064, 74.9581, 71.4862**, and **11.3938, 18.8706, 15.8738** is the 20% darker color. If you saturate the color by 10%, you get **24.6828, 40.0336, 36.9967**, and if you desaturate by 10%, it is **25.2779, 40.3032, 38.7056**.

# Distribution



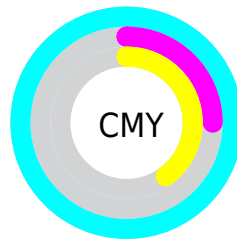
- Red (0%)
- Green (75%)
- Blue (60%)



- Red (0%)
- Yellow (42%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (20%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.6824, 40.0324, 36.9980 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 24.6824, 40.0324, 36.9980 by changing the saturation by 10% instead.





 24.6824, 40.0324,  
36.9980


 24.6824, 40.0324,  
36.9980


268.6295,  
346.2601, 348.4703


 15.9681, 27.5638,  
24.9102


 50.5881, 75.2128,  
71.7560


 9.5923, 17.9971,  
15.7917


 68.5102, 98.6935,  
95.2633


 5.1896, 10.9479,  
9.2241


 90.2323, 126.6136,  
123.4141

 2.3949, 6.0318,  
4.7889

 116.1197,  
159.3576, 156.6270

 0.8425, 2.8644,  
2.0674

 146.5377,  
197.3098, 195.3205

 0.0000, 1.0614,  
0.5962

181.8518,

 0.0000, 0.0000,

240.8548, 239.9132

0.0000

222.4273,  
290.3767, 290.8236

■ 24.6824, 40.0324,  
36.9980

■ 24.6824, 40.0324,  
36.9980

■ 24.6828, 40.0336,  
36.9967

■ 25.2779, 40.3032,  
38.7056

■ 26.1518, 40.7154,  
40.4782

■ 27.4019, 41.3204,  
42.3216

■ 29.0776, 42.1435,  
44.2387

■ 31.2203, 43.2062,  
46.2318

■ 33.8669, 44.5275,  
48.3031

■ 37.0503, 46.1242,  
50.4546

■ 40.8005, 48.0120,  
52.6882

■ 45.1455, 50.2051,  
55.0055

# Harmonies

## Analogous

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



27.2136, 40.0324, 21.1675



24.6824, 40.0324, 36.9980



25.3176, 40.0324, 61.5470

# Triad

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



24.6824, 40.0324, 36.9980



43.8901, 40.0324, 99.6722



48.6800, 40.0324, 17.3589

# Complementary

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



24.6824, 40.0324, 36.9980



22.0896, 11.3475, 2.8621

# 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.



54.4626, 40.0324, 29.5147



24.6824, 40.0324, 36.9980



51.4367, 40.0324, 77.9844

# Square

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



24.6824, 40.0324, 36.9980



35.6728, 40.0324, 103.9088



55.5371, 40.0324, 50.9185



40.5296, 40.0324, 12.7689



# Rectangle

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



24.6824, 40.0324, 36.9980



27.4940, 40.0324, 79.7551



55.5371, 40.0324, 50.9185



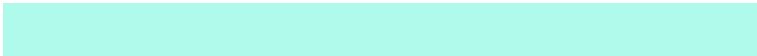
51.0107, 40.0324, 20.4393

# Sweetspot

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



24.6835, 40.0339, 36.9989



66.8221, 83.4166, 91.2217



19.6654, 38.1208, 6.3223



13.7879, 17.6207, 19.2114



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



24.6835, 40.0339, 36.9989



44.6306, 72.4995, 66.5508



18.0969, 20.9698, 52.9647



10.2803, 11.3932, 12.4794



16.6363, 26.9486, 25.0413



0.7411, 1.1733, 1.1995



# Inverse Universe

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



22.0896, 11.3475, 2.8621



39.9528, 20.5312, 4.8149



23.2331, 14.1947, 1.5161



10.1529, 10.1098, 10.8957



14.8855, 7.6440, 2.0432

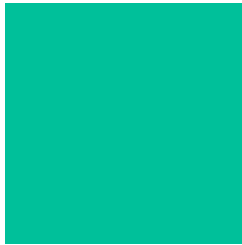


0.6680, 0.3402, 0.2189



# Previews

## White Background



This preview shows how the XYZ color 24.6824, 40.0324, 36.9980 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 24.6824, 40.0324, 36.9980 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

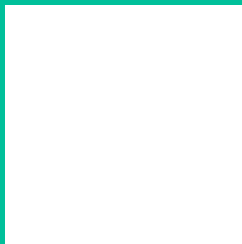
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 24.6824, 40.0324, 36.9980**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.6824, 40.0324, 36.9980.



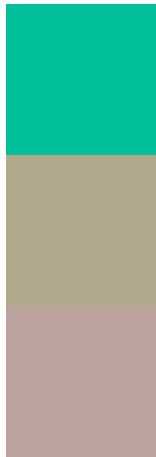
This preview shows how white text looks on a background with the XYZ color 24.6824, 40.0324,



# 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

24.6824, 40.0324, 36.9980

### Protanopia

37.2452, 39.4232, 31.2376

### Deuteranopia

40.1814, 39.4238, 38.7495



## Tritanopia

29.8464, 40.2344, 61.4513

# Trichromacy



## Original Color

24.6824, 40.0324, 36.9980



## Protanomaly

27.7205, 37.0303, 32.8807



## Deuteranomaly

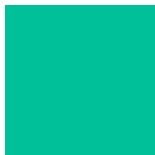
29.0533, 36.7338, 37.9068



## Tritanomaly

27.3979, 39.8204, 51.5895

# Monochromacy



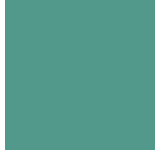
## Original Color

24.6824, 40.0324, 36.9980



## Achromatopsia

21.2178, 22.3228, 24.3095



## Achromatomaly

19.6187, 26.4855, 28.5043

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.6824, 40.0324, 36.9980 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, 192, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 192, 154)  
}
```

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, 192, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 192, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 24.6824, 40.0324, 36.9980 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, 192, 154) }
```



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

```
.border{ border-color:rgb(0, 192, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 192, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 192, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 192, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 192,  
154) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.6824, 40.0324, 36.9980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 192, 154) }
```

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

```
.background{ background-color: rgb(0, 192,  
154) }
```

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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