

# Converting Colors

XYZ(12.4387, 23.9359, 23.1917)

Have a look what the booklet for  
XYZ(12.4387, 23.9359, 23.1917)  
contains.

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# Color

**XYZ(15.6951, 25.5692,  
23.1769)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009D7C
RGB	0, 157, 124
RGB Percent	0%, 62%, 49%
CMY	0.9999, 0.3843, 0.5137
CMYK	1.00, 0.00, 0.21, 0.38
HSL	167°, 100%, 31%
HSV	167°, 100%, 62%
XYZ	15.6951, 25.5692, 23.1769
YIQ	106.2950, -82.9790, -43.5470

# Conversions

## Conversions Part 2

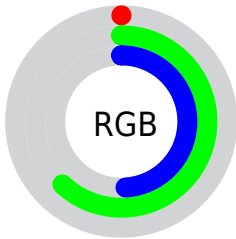
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 88, 157
Decimal	40316
CIELab	57.63, -43.04, 7.53
CIELCh	58, 43.693, 170.082
Yxy	25.5692, 0.2436, 0.3968
Android (android.graphics.Color)	4278230396 (0xFF009D7C)
YUV	106.2950, 8.7286, -93.2207
Hunter-Lab	50.5660, -33.0862, 8.2207

# Details

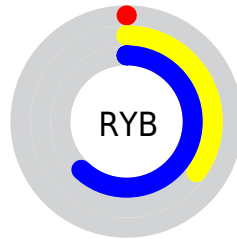
The XYZ color **15.6951, 25.5692, 23.1769** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **14.1801, 7.2787, 2.0978**, and the grayscale version is **13.7755, 14.4929, 15.7827**.

A 20% lighter version of the original color is **35.5991, 52.3851, 49.8300**, and **6.2203, 10.4086, 8.3378** is the 20% darker color. If you saturate the color by 10%, you get **15.6953, 25.5700, 23.1762**, and if you desaturate by 10%, it is **16.1168, 25.7627, 24.3052**.

# Distribution



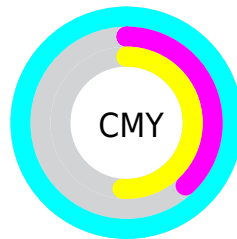
- Red (0%)
- Green (62%)
- Blue (49%)



- Red (0%)
- Yellow (35%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (21%)
- Black (38%)



- Cyan (100%)
- Magenta (38%)
- Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 15.6951, 25.5692, 23.1769 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 15.6951, 25.5692, 23.1769 by changing the saturation by 10% instead.



■ 15.6951, 25.5692,  
23.1769

■ 15.6951, 25.5692,  
23.1769

220.8417,  
280.6609, 281.7836

■ 9.3981, 16.5016,  
14.5177

■ 35.6298, 52.5791,  
49.6105

■ 5.0609, 9.8798,  
8.3387

■ 49.9983, 71.2903,  
68.2219

■ 2.3182, 5.3193,  
4.2216

■ 67.7879, 93.9848,  
90.9879

■ 0.8039, 2.4358,  
1.7477

■ 89.3641, 121.0470,  
118.3268

■ 0.0000, 0.8442,  
0.3931

■ 115.0923,  
152.8613, 150.6573

■ 0.0000, 0.0000,  
0.0000

■ 145.3377,

189.8121, 188.3979

180.4657,  
232.2838, 231.9672

■ 15.6951, 25.5692,  
23.1769

■ 15.6951, 25.5692,  
23.1769

■ 15.6953, 25.5700,  
23.1762

■ 16.1168, 25.7627,  
24.3052

■ 16.7050, 26.0406,  
25.4776

■ 17.5315, 26.4405,  
26.6983

■ 18.6258, 26.9776,  
27.9690

■ 20.0129, 27.6649,  
29.2913

■ 21.7152, 28.5138,  
30.6664

■ 23.7526, 29.5346,  
32.0958

■ 26.1435, 30.7367,  
33.5805

■ 28.9048, 32.1290,  
35.1217

# Harmonies

## Analogous

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



17.3882, 25.5692, 13.1676



15.6951, 25.5692, 23.1769



16.0415, 25.5692, 38.9246

# Triad

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



15.6951, 25.5692, 23.1769



27.9151, 25.5692, 64.5101



31.3299, 25.5692, 11.1000

# Complementary

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



15.6951, 25.5692, 23.1769



14.1801, 7.2787, 2.0978

# 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.



35.0022, 25.5692, 19.0899



15.6951, 25.5692, 23.1769



32.8433, 25.5692, 50.6623

# Square

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



15.6951, 25.5692, 23.1769



22.6146, 25.5692, 66.8462



35.5925, 25.5692, 33.0912



26.0729, 25.5692, 8.0383



# Rectangle

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



15.6951, 25.5692, 23.1769



17.4031, 25.5692, 50.7569



35.5925, 25.5692, 33.0912



32.8206, 25.5692, 13.1292

# Sweetspot

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



15.6958, 25.5702, 23.1775



42.3047, 52.7750, 57.3248



12.7182, 24.4555, 4.0506



8.9829, 11.4493, 12.3923



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

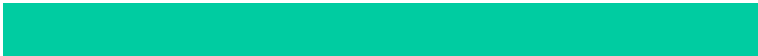


# Same Dimension

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



15.6958, 25.5702, 23.1775



28.0360, 45.7630, 41.1269



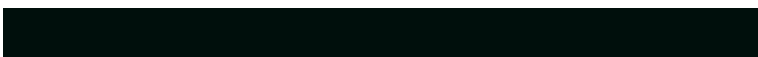
11.9384, 14.1388, 33.9993



6.7621, 7.4856, 8.1817



12.7608, 20.7722, 18.8950



0.2420, 0.3769, 0.4105



# Inverse Universe

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



14.1801, 7.2787, 2.0978



25.3358, 13.0109, 3.4505



14.8245, 9.0070, 0.9577



6.6873, 6.6678, 7.2044



11.5277, 5.9156, 1.7639



0.2195, 0.1111, 0.1022



# Previews

## White Background



This preview shows how the XYZ color 15.6951, 25.5692, 23.1769 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 15.6951, 25.5692, 23.1769 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 × Fail

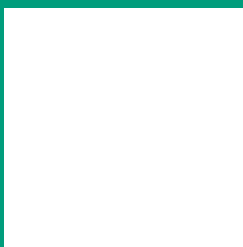
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 15.6951, 25.5692, 23.1769**

## **Background**



This preview shows how black text looks on a background with the XYZ color 15.6951, 25.5692, 23.1769.



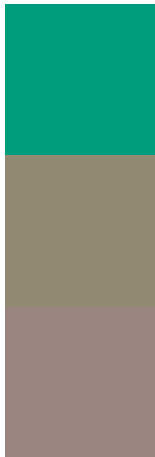
This preview shows how white text looks on a background with the XYZ color 15.6951, 25.5692,



# 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

15.6951, 25.5692, 23.1769

### Protanopia

23.6600, 25.1260, 19.5224

### Deuteranopia

25.6764, 25.2301, 24.2855



## Tritanopia

19.1480, 25.7652, 39.0859

# Trichromacy



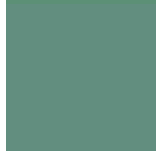
## Original Color

15.6951, 25.5692, 23.1769



## Protanomaly

17.6569, 23.5298, 20.7506



## Deuteranomaly

18.5408, 23.4750, 23.6326



## Tritanomaly

17.5455, 25.5724, 32.4450

# Monochromacy



## Original Color

15.6951, 25.5692, 23.1769



## Achromatopsia

13.6994, 14.4128, 15.6956



## Achromatomaly

12.6290, 17.0528, 18.2487

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 15.6951, 25.5692, 23.1769 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, 157, 124)` looks like.

```
.text, #text, p{  
    color:rgb(0, 157, 124)  
}
```

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, 157, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 157, 124) }
```

## Border

The CSS property to change the border of an element to XYZ 15.6951, 25.5692, 23.1769 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, 157, 124) }
```



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

```
.border{ border-color:rgb(0, 157, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 157, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 157, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 157, 124);  
box-shadow:4px 4px 4px 4px rgb(0, 157,  
124) }
```

# Background

The CSS property to change the background color of an element to XYZ 15.6951, 25.5692, 23.1769 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 157, 124) }
```

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

```
.background{ background-color: rgb(0, 157,  
124) }
```

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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