

# Converting Colors

XYZ(20.4454, 39.4264, 23.3411)

Have a look what the booklet for  
XYZ(20.4454, 39.4264, 23.3411)  
contains.

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# Color

**XYZ(22.9508, 40.7642,  
23.4883)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C475
RGB	0, 196, 117
RGB Percent	0%, 77%, 46%
CMY	1.0000, 0.2314, 0.5412
CMYK	1.00, 0.00, 0.40, 0.23
HSL	156°, 100%, 38%
HSV	156°, 100%, 77%
XYZ	22.9508, 40.7642, 23.4883
YIQ	128.3900, -91.4570, -66.1210

# Conversions

## Conversions Part 2

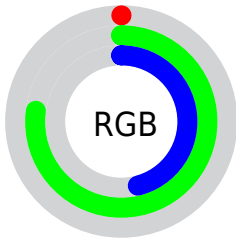
Format	Color
<b>RYB</b>	0, 123, 196
Decimal	50293
CIELab	70.01, -59.38, 28.35
CIELCh	70, 65.798, 154.482
Yxy	40.7642, 0.2632, 0.4675
Android (android.graphics.Color)	4278240373 (0xFF00C475)
YUV	128.3900, -5.6153, -112.5980
Hunter-Lab	63.8468, -47.5672, 22.8809

# Details

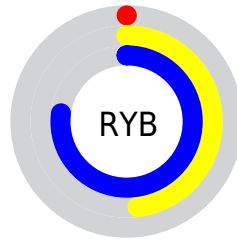
The XYZ color **22.9508, 40.7642, 23.4883** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark washed spring green. A complement of this color would be **24.1777, 12.3012, 8.4997**, and the grayscale version is **20.6968, 21.7747, 23.7126**.

A 20% lighter version of the original color is **47.8431, 76.4386, 50.2627**, and **10.5683, 19.4671, 8.6694** is the 20% darker color. If you saturate the color by 10%, you get **22.9514, 40.7656, 23.4877**, and if you desaturate by 10%, it is **23.7168, 41.1042, 26.0534**.

# Distribution



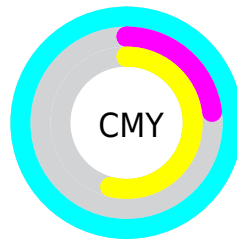
- Red (0%)
- Green (77%)
- Blue (46%)



- Red (0%)
- Yellow (48%)
- Blue (77%)



- Cyan (100%)
- Magenta (0%)
- Yellow (40%)
- Black (23%)




- Cyan (100%)
- Magenta (23%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.9508, 40.7642, 23.4883 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 22.9508, 40.7642, 23.4883 by changing the saturation by 10% instead.





 22.9508, 40.7642,  
23.4883


 22.9508, 40.7642,  
23.4883


260.0122,  
349.3341, 283.4260


 14.6777, 28.1349,  
14.7458


 47.7798, 76.3258,  
50.1272


 8.6783, 18.4274,  
8.4965


 65.0663, 100.0269,  
68.8607


 4.5874, 11.2572,  
4.3220


 86.0881, 128.1874,  
91.7616

 2.0395, 6.2401,  
1.8036

 111.2104,  
161.1916, 119.2484

 0.6560, 2.9916,  
0.4303

 140.7986,  
199.4240, 151.7397

 0.0000, 1.1274,  
0.0000

175.2181,

 0.0000, 0.0012,

243.2689, 189.6540

0.0000

214.8342,  
293.1109, 233.4099

■ 0.0000, 0.0000,  
0.0000

■ 22.9508, 40.7642,  
23.4883

■ 22.9508, 40.7642,  
23.4883

■ 22.9514, 40.7656,  
23.4877

■ 23.7168, 41.1042,  
26.0534

■ 24.8055, 41.6049,  
28.8423

■ 26.3190, 42.3197,  
31.8654

■ 28.3098, 43.2759,  
35.1296

■ 30.8228, 44.4962,  
38.6414

■ 33.8971, 46.0010,  
42.4069

■ 37.5683, 47.8082,  
46.4320

■ 41.8685, 49.9346,  
50.7223

■ 46.8279, 52.3954,  
55.2830

# Harmonies

## Analogous

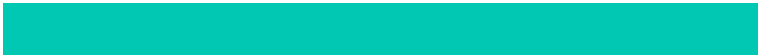
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



28.2002, 40.7642, 11.3249



22.9508, 40.7642, 23.4883



21.6031, 40.7642, 49.1639

# Triad

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



22.9508, 40.7642, 23.4883



40.3796, 40.7642, 133.1814



58.3592, 40.7642, 18.6355

# Complementary

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



22.9508, 40.7642, 23.4883



24.1777, 12.3012, 8.4997

# 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.



63.1650, 40.7642, 39.9268



22.9508, 40.7642, 23.4883



51.6372, 40.7642, 113.0698

# Square

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



22.9508, 40.7642, 23.4883



30.5202, 40.7642, 121.9015



60.5031, 40.7642, 75.0123



48.3291, 40.7642, 9.5674



# Rectangle

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



22.9508, 40.7642, 23.4883



22.8397, 40.7642, 73.6463



60.5031, 40.7642, 75.0123



60.7156, 40.7642, 24.1278

# Sweetspot

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



22.9518, 40.7658, 23.4892



67.7119, 86.4350, 83.7525



23.1922, 41.2607, 6.7421



13.8593, 18.1883, 17.2478



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.



22.9518, 40.7658, 23.4892



41.4450, 73.7940, 41.8568



26.2192, 36.4955, 57.8890



10.1911, 11.3575, 12.0096



14.7903, 26.2102, 15.3204



0.6724, 1.1458, 0.8377



# Inverse Universe

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



24.1777, 12.3012, 8.4997



43.6775, 22.2350, 14.7656



22.9563, 12.1171, 1.1293



10.2377, 10.1437, 11.3421



15.5746, 7.9196, 5.6717



0.7070, 0.3558, 0.4245



# Previews

## White Background



This preview shows how the XYZ color 22.9508, 40.7642, 23.4883 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 22.9508, 40.7642, 23.4883 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 22.9508, 40.7642, 23.4883**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.9508, 40.7642, 23.4883.



This preview shows how white text looks on a background with the XYZ color 22.9508, 40.7642,



# 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

22.9508, 40.7642, 23.4883

### Protanopia

37.0362, 40.1253, 19.7029

### Deuteranopia

40.8863, 40.0926, 24.9857



## Tritanopia

30.7001, 40.6745, 61.4912

# Trichromacy



## Original Color

22.9508, 40.7642, 23.4883



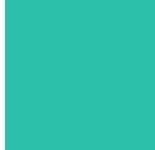
## Protanomaly

26.4606, 37.2394, 20.8322



## Deuteranomaly

27.7449, 36.6543, 24.0250



## Tritanomaly

26.7513, 40.2871, 44.3965

# Monochromacy



## Original Color

22.9508, 40.7642, 23.4883



## Achromatopsia

20.5175, 21.5861, 23.5072



## Achromatomaly

18.4227, 25.9870, 23.1138

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.9508, 40.7642, 23.4883 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, 196, 117)` looks like.

```
.text, #text, p{  
    color:rgb(0, 196, 117)  
}
```

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, 196, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 196, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 22.9508, 40.7642, 23.4883 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, 196, 117) }
```



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

```
.border{ border-color:rgb(0, 196, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 196, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 196, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 196, 117);  
box-shadow:4px 4px 4px 4px rgb(0, 196,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.9508, 40.7642, 23.4883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 196, 117) }
```

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

```
.background{ background-color: rgb(0, 196,  
117) }
```

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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