

# Converting Colors

XYZ(23.6967, 46.0469, 10.0896)

Have a look what the booklet for  
XYZ(23.6967, 46.0469, 10.0896)  
contains.

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# Color

**XYZ(23.6750, 45.9971,  
10.1131)**

# Conversions

## Conversions Part 1

Format	Color
Hex	19D12D
RGB	25, 209, 45
RGB Percent	10%, 82%, 18%
CMY	0.9020, 0.1804, 0.8235
CMYK	0.88, 0.00, 0.78, 0.18
HSL	127°, 79%, 46%
HSV	127°, 88%, 82%
XYZ	23.6750, 45.9971, 10.1131
YIQ	135.2880, -57.0200, -90.0120

# Conversions

## Conversions Part 2

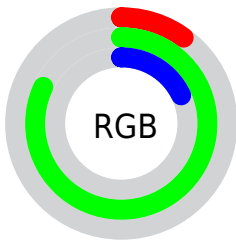
Format	Color
<a href="#">RYB</a>	<a href="#">25, 191, 209</a>
Decimal	<a href="#">1691949</a>
CIELab	<a href="#">73.54, -71.37, 63.81</a>
CIELCh	<a href="#">74, 95.735, 138.199</a>
Yxy	<a href="#">45.9971, 0.2967, 0.5765</a>
Android (android.graphics.Color)	<a href="#">4279882029</a> ( <a href="#">0xFF19D12D</a> )
YUV	<a href="#">135.2880, -44.5120, -96.7226</a>
Hunter-Lab	<a href="#">67.8212, -56.3763, 38.6338</a>

# Details

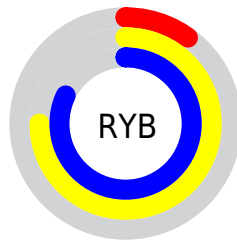
The XYZ color **23.6750, 45.9971, 10.1131** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **35.8281, 17.9251, 49.7136**, and the grayscale version is **23.3127, 24.5268, 26.7097**.

A 20% lighter version of the original color is **44.7637, 75.8788, 25.1187**, and **11.3912, 22.7825, 3.7971** is the 20% darker color. If you saturate the color by 10%, you get **23.0434, 45.7056, 8.6072**, and if you desaturate by 10%, it is **24.8387, 46.5474, 12.4715**.

# Distribution



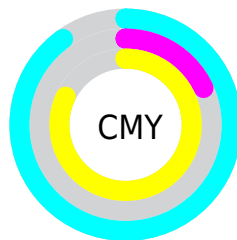
- Red (10%)
- Green (82%)
- Blue (18%)



- Red (10%)
- Yellow (75%)
- Blue (82%)



- Cyan (88%)
- Magenta (0%)
- Yellow (78%)
- Black (18%)



- Cyan (90%)
- Magenta (18%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6750, 45.9971, 10.1131 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 23.6750, 45.9971, 10.1131 by changing the saturation by 10% instead.



■ 23.6750, 45.9971,  
10.1131

■ 23.6750, 45.9971,  
10.1131

263.6443,  
370.7970, 201.9914

■ 15.2161, 32.2435,  
5.3674

■ 48.9579, 84.2147,  
26.6191

■ 9.0585, 21.5476,  
2.4019

■ 66.5126, 109.4474,  
39.2166

■ 4.8368, 13.5248,  
0.7875

■ 87.8300, 139.2754,  
55.2684

■ 2.1856, 7.7909,  
0.0000

■ 113.2754,  
174.0830, 75.1931

■ 0.7351, 3.9615,  
0.0000

■ 143.2142,  
214.2545, 99.4092

■ 0.0000, 1.6520,  
0.0000

■ 178.0117,

■ 0.0000, 0.3923,

260.1744, 128.3353

0.0000

218.0333,  
312.2271, 162.3898

■ 0.0000, 0.0000,  
0.0000

■ 23.6750, 45.9971,  
10.1131

■ 23.6750, 45.9971,  
10.1131

■ 23.0434, 45.7056,  
8.6072

■ 24.8387, 46.5474,  
12.4715


■ 22.9533, 45.6636,  
8.4005


■ 26.6355, 47.4023,  
15.7808


■ 29.1412, 48.6004,  
20.1286


■ 32.4200, 50.1732,  
25.5920

■ 36.5290, 52.1485,  
32.2405

 41.5196, 54.5516,  
40.1382

 47.4392, 57.4056,  
49.3445

 54.3318, 60.7321,  
59.9150

 62.2385, 64.5510,  
71.9020

# Harmonies

## Analogous

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



34.3250, 45.9971, 3.4750



23.6750, 45.9971, 10.1131



18.9803, 45.9971, 33.3433

# Triad

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



23.6750, 45.9971, 10.1131



37.3976, 45.9971, 207.8436



82.4779, 45.9971, 26.2557

# Complementary

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



23.6750, 45.9971, 10.1131



35.8281, 17.9251, 49.7136

# 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.



83.9212, 45.9971, 71.6554



23.6750, 45.9971, 10.1131



54.6870, 45.9971, 200.9698

# Square

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



23.6750, 45.9971, 10.1131



25.4222, 45.9971, 156.5927



72.7314, 45.9971, 141.3892



69.1856, 45.9971, 7.7873

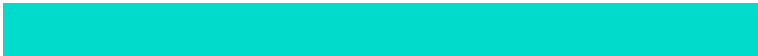


# Rectangle

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



23.6750, 45.9971, 10.1131



18.7774, 45.9971, 64.5805



72.7314, 45.9971, 141.3892



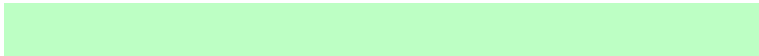
84.4708, 45.9971, 37.9358

# Sweetspot

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



23.6761, 45.9990, 10.1141



66.6254, 86.2819, 65.3128



44.3631, 56.6980, 9.5253



13.6200, 18.1592, 12.9751



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.



23.6761, 45.9990, 10.1141



35.9663, 71.6025, 13.0066



27.6038, 47.5701, 30.7974



11.7078, 13.2269, 12.8178



14.1697, 28.1608, 5.2740



0.8103, 1.5818, 0.3900



# Inverse Universe

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



35.8281, 17.9251, 49.7136



55.1428, 26.8211, 75.1413



28.8763, 15.1443, 13.1058



12.2531, 11.9860, 14.6087



21.7174, 10.5598, 29.7478

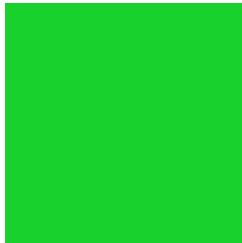


1.2305, 0.5969, 1.7487



# Previews

## White Background



This preview shows how the XYZ color 23.6750, 45.9971, 10.1131 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 23.6750, 45.9971, 10.1131 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 23.6750, 45.9971, 10.1131**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6750, 45.9971, 10.1131.



This preview shows how white text looks on a background with the XYZ color 23.6750, 45.9971,



# 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

23.6750, 45.9971, 10.1131

### Protanopia

40.5414, 44.7913, 8.2591

### Deuteranopia

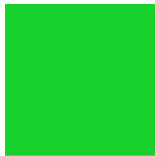
46.0124, 44.9556, 10.9548



## Tritanopia

35.2678, 45.8072, 67.9556

# Trichromacy



## Original Color

23.6750, 45.9971, 10.1131



## Protanomaly

29.1130, 42.2985, 8.6375



## Deuteranomaly

30.8032, 41.2419, 10.0784



## Tritanomaly

28.4061, 44.6688, 35.9789

# Monochromacy



## Original Color

23.6750, 45.9971, 10.1131



## Achromatopsia

23.0288, 24.2281, 26.3844



## Achromatomaly

20.0379, 29.2329, 17.1568

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6750, 45.9971, 10.1131 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(25, 209, 45)` looks like.

```
.text, #text, p{  
    color:rgb(25, 209, 45)  
}
```

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(25, 209, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(25, 209, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6750, 45.9971, 10.1131 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(25, 209, 45) }
```



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

```
.border{ border-color:rgb(25, 209, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(25, 209, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(25, 209, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(25, 209, 45);  
box-shadow:4px 4px 4px 4px rgb(25, 209,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6750, 45.9971, 10.1131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(25, 209, 45) }
```

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

```
.background{ background-color: rgb(25, 209,  
45) }
```

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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