

# Converting Colors

XYZ(23.1649, 45.6554, 8.1107)

Have a look what the booklet for  
XYZ(23.1649, 45.6554, 8.1107)  
contains.

<b>XYZ(23.2550, 45.8236, 8.1495)</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(23.2550, 45.8236,  
8.1495)**

# Conversions

## Conversions Part 1

Format	Color
Hex	17D111
RGB	23, 209, 17
RGB Percent	9%, 82%, 7%
CMY	0.9098, 0.1804, 0.9333
CMYK	0.89, 0.00, 0.92, 0.18
HSL	118°, 85%, 44%
HSV	118°, 92%, 82%
XYZ	23.2550, 45.8236, 8.1495
YIQ	131.4980, -49.2240, -99.1440

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	17, 209, 203
Decimal	1560849
CIELab	73.43, -72.75, 69.91
CIELCh	73, 100.895, 136.143
Yxy	45.8236, 0.3011, 0.5934
Android (android.graphics.Color)	4279750929 (0xFF17D111)
YUV	131.4980, -56.4475, -95.1527
Hunter-Lab	67.6931, -57.1419, 40.2473

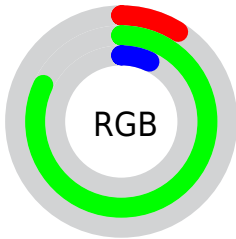
# Details

The XYZ color **23.2550, 45.8236, 8.1495** is a dark color, and the websafe version is hex **00CC00**.

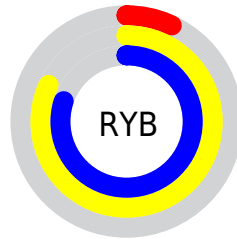
The color can be described as dark washed green. A complement of this color would be **36.3445, 17.7047, 61.8259**, and the grayscale version is **21.9621, 23.1059, 25.1623**.

A 20% lighter version of the original color is **44.0770, 75.6041, 21.5025**, and **11.3912, 22.7825, 3.7971** is the 20% darker color. If you saturate the color by 10%, you get **22.8829, 45.6448, 7.6043**, and if you desaturate by 10%, it is **24.1567, 46.2612, 9.4829**.

# Distribution



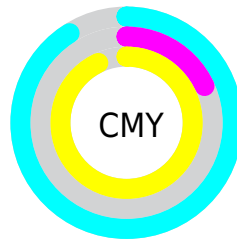
- Red (9%)
- Green (82%)
- Blue (7%)



- Red (7%)
- Yellow (82%)
- Blue (80%)



- Cyan (89%)
- Magenta (0%)
- Yellow (92%)
- Black (18%)




- Cyan (91%)
- Magenta (18%)
- Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.2550, 45.8236, 8.1495 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 23.2550, 45.8236, 8.1495 by changing the saturation by 10% instead.




 23.2550, 45.8236,  
8.1495


 23.2550, 45.8236,  
8.1495


261.5430,  
370.0990, 186.8781


 14.9036, 32.1066,  
4.1016


 48.2753, 83.9549,  
22.8020


 8.8377, 21.4430,  
1.6813


 65.6749, 109.1381,  
34.2437


 4.6917, 13.4482,  
0.3478


 86.8213, 138.9121,  
48.9871

 2.1004, 7.7379,  
0.0000

 112.0799,  
173.6614, 67.4507

 0.6894, 3.9277,  
0.0000

 141.8160,  
213.7704, 90.0530

 0.0000, 1.6332,  
0.0000

 176.3950,

 0.0000, 0.3798,

259.6233, 117.2127

0.0000

216.1822,  
311.6048, 149.3482

■ 0.0000, 0.0000,  
0.0000

■ 23.2550, 45.8236,  
8.1495

■ 23.2550, 45.8236,  
8.1495

■ 22.8829, 45.6448,  
7.6043

■ 24.1567, 46.2612,  
9.4829

■ 25.6680, 46.9899,  
11.8302

■ 27.8726, 48.0510,  
15.3408

■ 30.8402, 49.4778,  
20.1391

■ 34.6323, 51.2995,  
26.3332

■ 39.3037, 53.5424,  
34.0201

■ 44.9048, 56.2306,  
43.2879

■ 51.4822, 59.3862,  
54.2182

■ 59.0792, 63.0301,  
66.8866

# Harmonies

## Analogous

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



34.7202, 45.8236, 2.5572



23.2550, 45.8236, 8.1495



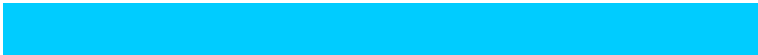
18.0730, 45.8236, 29.9212

# Triad

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



23.2550, 45.8236, 8.1495



35.8662, 45.8236, 218.1963



85.3564, 45.8236, 27.3154

# Complementary

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



23.2550, 45.8236, 8.1495



36.3445, 17.7047, 61.8259

# 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.



85.9108, 45.8236, 77.2190



23.2550, 45.8236, 8.1495



53.7717, 45.8236, 215.5018

# Square

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



23.2550, 45.8236, 8.1495



23.8960, 45.8236, 159.0846



73.1615, 45.8236, 153.1713



71.8060, 45.8236, 7.3511

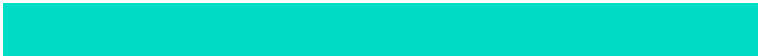


# Rectangle

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



23.2550, 45.8236, 8.1495



17.6322, 45.8236, 61.1272



73.1615, 45.8236, 153.1713



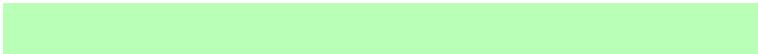
87.1734, 45.8236, 40.1291

# Sweetspot

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



23.2561, 45.8255, 8.1505



64.5769, 85.3811, 58.2045



47.6595, 56.1216, 8.8517



13.0522, 17.9055, 11.1865



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.



23.2561, 45.8255, 8.1505



35.8594, 71.5713, 11.9247



25.6663, 46.7755, 21.4788



11.6899, 13.2236, 12.5483



14.1237, 28.1500, 4.6891



0.8020, 1.5803, 0.2628



# Inverse Universe

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



36.3445, 17.7047, 61.8259



56.4272, 27.0042, 96.8460



29.8508, 15.2991, 18.9620



12.2729, 11.9895, 14.9110



22.2117, 10.6308, 38.0738

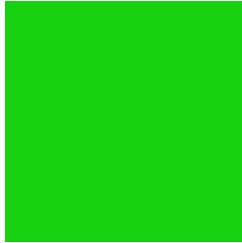


1.2536, 0.6004, 2.1294



# Previews

## White Background



This preview shows how the XYZ color 23.2550, 45.8236, 8.1495 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 23.2550, 45.8236, 8.1495 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

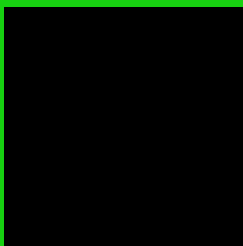
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 23.2550, 45.8236, 8.1495**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.2550, 45.8236, 8.1495.



This preview shows how white text looks on a background with the XYZ color 23.2550, 45.8236,



# 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

23.2550, 45.8236, 8.1495

### Protanopia

40.4772, 44.7968, 6.5133

### Deuteranopia

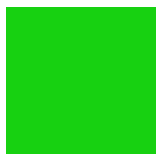
45.6487, 44.8101, 9.0396



## Tritanopia

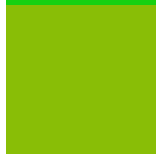
35.1411, 45.4104, 67.8857

# Trichromacy



## Original Color

23.2550, 45.8236, 8.1495



## Protanomaly

28.7629, 42.1584, 6.7937



## Deuteranomaly

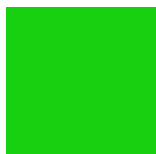
30.2369, 40.9939, 8.0692



## Tritanomaly

27.4038, 43.8985, 31.8399

# Monochromacy



## Original Color

23.2550, 45.8236, 8.1495



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

18.8299, 28.1551, 14.1149

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.2550, 45.8236, 8.1495 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(23, 209, 17)` looks like.

```
.text, #text, p{  
    color:rgb(23, 209, 17)  
}
```

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(23, 209, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 209, 17) }
```

## Border

The CSS property to change the border of an element to XYZ 23.2550, 45.8236, 8.1495 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(23, 209, 17) }
```



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

```
.border{ border-color:rgb(23, 209, 17) }
```

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

Here you see how a box with a 4 pixel rgb(23, 209, 17) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 209, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 209, 17);  
box-shadow:4px 4px 4px 4px rgb(23, 209,  
17) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.2550, 45.8236, 8.1495 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 209, 17) }
```

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

```
.background{ background-color: rgb(23, 209,  
17) }
```

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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