

# Converting Colors

XYZ(28.0647, 45.6932, 22.2220)

Have a look what the booklet for  
XYZ(28.0647, 45.6932, 22.2220)  
contains.

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# Color

**XYZ(28.1009, 45.8639,  
22.1234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57CB6E
RGB	87, 203, 110
RGB Percent	34%, 80%, 43%
CMY	0.6588, 0.2039, 0.5686
CMYK	0.57, 0.00, 0.46, 0.20
HSL	132°, 53%, 57%
HSV	132°, 57%, 80%
XYZ	28.1009, 45.8639, 22.1234
YIQ	157.7140, -39.2830, -53.5150

# Conversions

## Conversions Part 2

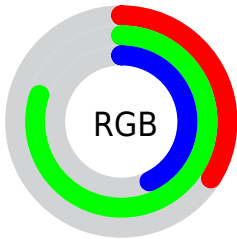
<b>Format</b>	<b>Color</b>
<b>RYB</b>	87, 184, 203
Decimal	5753710
CIELab	73.46, -52.50, 36.66
CIELCh	73, 64.031, 145.075
Yxy	45.8639, 0.2924, 0.4773
Android (android.graphics.Color)	4283943790 (0xFF57CB6E)
YUV	157.7140, -23.5230, -62.0162
Hunter-Lab	67.7229, -44.4484, 28.0374

# Details

The XYZ color **28.1009, 45.8639, 22.1234** is a dark color, and the websafe version is hex **66CC66**. The color can be described as dark muted spring green. A complement of this color would be **36.2764, 22.8090, 45.6720**, and the grayscale version is **32.4867, 34.1785, 37.2204**.

A 20% lighter version of the original color is **54.2249, 80.2753, 47.2871**, and **11.4806, 21.5448, 7.8284** is the 20% darker color. If you saturate the color by 10%, you get **25.6593, 44.6997, 17.8012**, and if you desaturate by 10%, it is **31.2404, 47.3717, 27.3299**.

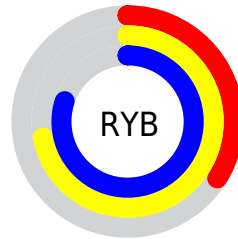
# Distribution



Red (34%)

Green (80%)

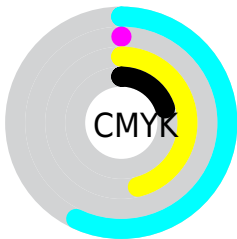
Blue (43%)



Red (34%)

Yellow (72%)

Blue (80%)

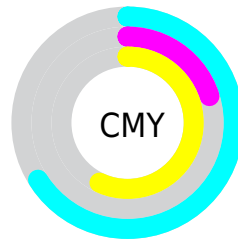


Cyan (57%)

Magenta (0%)

Yellow (46%)

Black (20%)



Cyan (66%)

Magenta (20%)

Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.1009, 45.8639, 22.1234 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 28.1009, 45.8639, 22.1234 by changing the saturation by 10% instead.



■ 28.1009, 45.8639,  
22.1234

■ 28.1009, 45.8639,  
22.1234

285.0201,  
370.2612, 276.1645

■ 18.5426, 32.1384,  
13.7484

■ 56.0530, 84.0153,  
47.8547

■ 11.4423, 21.4673,  
7.8091

■ 75.1775, 109.2100,  
66.0480

■ 6.4346, 13.4660,  
3.8871

■ 98.2214, 138.9965,  
88.3513

■ 3.1543, 7.7502,  
1.5636

■ 125.5502,  
173.7594, 115.1829

■ 1.2359, 3.9355,  
0.2646

157.5290,  
213.8829, 146.9615

■ 0.1344, 1.6376,  
0.0000

194.5234,

■ 0.0000, 0.3827,

259.7514, 184.1057

0.0000

236.8986,  
311.7494, 227.0338

■ 0.0000, 0.0000,  
0.0000

■ 28.1009, 45.8639,  
22.1234

■ 28.1009, 45.8639,  
22.1234

■ 25.6593, 44.6997,  
17.8012

■ 31.2404, 47.3717,  
27.3299

■ 23.8573, 43.8461,  
14.3109

■ 35.1233, 49.2417,  
33.4628

■ 22.6325, 43.2734,  
11.5997

■ 39.7950, 51.4977,  
40.5654

■ 21.9012, 42.9398,  
9.6066

■ 45.2965, 54.1600,  
48.6772

■ 21.7441, 42.8686,  
9.1585

■ 51.6658, 57.2473,  
57.8356

■ 58.9384, 60.7774,  
68.0761

■ 67.1480, 64.7667,  
79.4326

■ 76.3266, 69.2312,  
91.9372

■ 80.6468, 71.1936,  
104.0989

# Harmonies

## Analogous

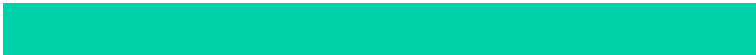
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.0211, 45.8639, 12.1321



28.1009, 45.8639, 22.1234



25.3380, 45.8639, 44.7865

# Triad

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



28.1009, 45.8639, 22.1234



41.7543, 45.8639, 141.0672



66.3692, 45.8639, 27.9450

# Complementary

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



28.1009, 45.8639, 22.1234



36.2764, 22.8090, 45.6720

# 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.



69.0060, 45.8639, 55.4702



28.1009, 45.8639, 22.1234



53.4588, 45.8639, 130.1093

# Square

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



28.1009, 45.8639, 22.1234



32.3039, 45.8639, 120.2588



63.9322, 45.8639, 94.6784



57.2447, 45.8639, 14.3321

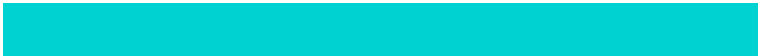


# Rectangle

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



28.1009, 45.8639, 22.1234



25.8055, 45.8639, 67.9233



63.9322, 45.8639, 94.6784



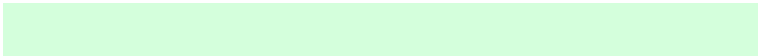
68.1037, 45.8639, 35.4458

# Sweetspot

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



28.1020, 45.8658, 22.1244



75.7614, 90.6454, 81.3840



42.3064, 53.3148, 17.0781



15.7904, 19.1957, 16.7983



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.



28.1020, 45.8658, 22.1244



42.0223, 74.3979, 28.0464



32.1951, 47.5030, 43.6784



11.1575, 12.5727, 12.3867



13.8634, 27.2907, 5.9659



0.7427, 1.4189, 0.4525



# Inverse Universe

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



36.2764, 22.8090, 45.6720



56.9727, 32.0324, 70.9682



31.6593, 20.9622, 21.3587



11.5885, 11.3641, 13.6336



19.8992, 9.7703, 22.9856



1.0515, 0.5140, 1.3171



# Previews

## White Background



This preview shows how the XYZ color 28.1009, 45.8639, 22.1234 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 28.1009, 45.8639, 22.1234 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 28.1009, 45.8639, 22.1234**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.1009, 45.8639, 22.1234.



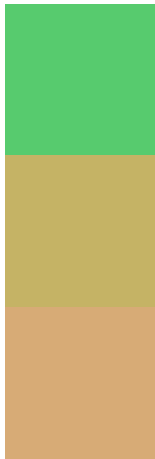
This preview shows how white text looks on a background with the XYZ color 28.1009, 45.8639,



# 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**

28.1009, 45.8639, 22.1234

**Protanopia**

41.4950, 45.0501, 18.8204

**Deuteranopia**

45.8573, 44.8809, 23.3855



## Tritanopia

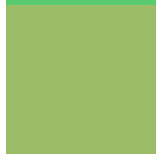
36.7942, 45.6490, 65.9034

# Trichromacy



## Original Color

28.1009, 45.8639, 22.1234



## Protanomaly

34.3865, 44.1340, 19.8031



## Deuteranomaly

36.1764, 43.4296, 22.6957



## Tritanomaly

32.7798, 45.3420, 46.0539

# Monochromacy



## Original Color

28.1009, 45.8639, 22.1234



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

29.4595, 37.1007, 30.8078

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.1009, 45.8639, 22.1234 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(87, 203, 110)` looks like.

```
.text, #text, p{  
    color:rgb(87, 203, 110)  
}
```

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(87, 203, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 203, 110) }
```

## Border

The CSS property to change the border of an element to XYZ 28.1009, 45.8639, 22.1234 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(87, 203, 110) }
```



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

```
.border{ border-color:rgb(87, 203, 110) }
```

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

Here you see how a box with a 4 pixel rgb(87, 203, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 203, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 203, 110);  
box-shadow:4px 4px 4px 4px rgb(87, 203,  
110) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.1009, 45.8639, 22.1234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 203, 110) }
```

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

```
.background{ background-color: rgb(87, 203,  
110) }
```

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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