

# Converting Colors

XYZ(38.1089, 60.6760, 10.7596)

Have a look what the booklet for  
XYZ(38.1089, 60.6760, 10.7596)  
contains.

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# Color

**XYZ(38.2578, 60.8843,  
10.7724)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89E41B
RGB	137, 228, 27
RGB Percent	54%, 89%, 11%
CMY	0.4627, 0.1059, 0.8941
CMYK	0.40, 0.00, 0.88, 0.11
HSL	87°, 79%, 50%
HSV	87°, 88%, 89%
XYZ	38.2578, 60.8843, 10.7724
YIQ	177.8770, 10.2850, -81.8030

# Conversions

## Conversions Part 2

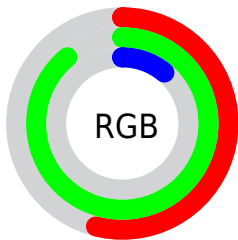
Format	Color
<a href="#">RYB</a>	<a href="#">27, 228, 118</a>
Decimal	<a href="#">9036827</a>
CIELab	<a href="#">82.32, -54.60, 77.01</a>
CIElCh	<a href="#">82, 94.404, 125.339</a>
Yxy	<a href="#">60.8843, 0.3481, 0.5539</a>
Android (android.graphics.Color)	<a href="#">4287226907 (0xFF89E41B)</a>
YUV	<a href="#">177.8770, -74.3824, -35.8491</a>
Hunter-Lab	<a href="#">78.0284, -49.0300, 46.4344</a>

# Details

The XYZ color **38.2578, 60.8843, 10.7724** is a dark color, and the websafe version is hex **66CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **21.8705, 10.2392, 74.2259**, and the grayscale version is **42.6314, 44.8516, 48.8434**.

A 20% lighter version of the original color is **60.8973, 84.2348, 24.1157**, and **17.7330, 31.0415, 5.0570** is the 20% darker color. If you saturate the color by 10%, you get **36.4720, 59.9858, 9.7772**, and if you desaturate by 10%, it is **40.4072, 61.9511, 12.8249**.

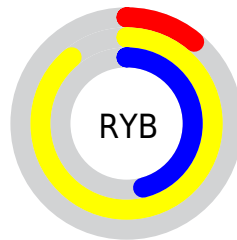
# Distribution



Red (54%)

Green (89%)

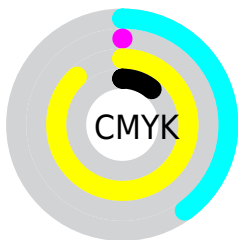
Blue (11%)



Red (11%)

Yellow (89%)

Blue (46%)

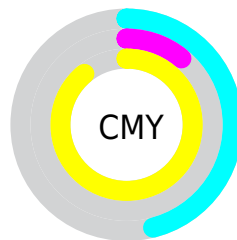


Cyan (40%)

Magenta (0%)

Yellow (88%)

Black (11%)



Cyan (46%)

Magenta (11%)


Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.2578, 60.8843, 10.7724 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 38.2578, 60.8843, 10.7724 by changing the saturation by 10% instead.





 38.2578, 60.8843,  
10.7724


 38.2578, 60.8843,  
10.7724


329.9863,  
427.8497, 206.7804


 26.3610, 44.1318,  
5.8018


 71.8045, 106.1114,  
27.8687


 17.2280, 30.7741,  
2.6581


 94.1850, 135.3548,  
40.8315


 10.4935, 20.4269,  
0.9222


 120.7908,  
169.5306, 57.2953

 5.7921, 12.7058,  
0.0000

 151.9872,  
209.0232, 77.6789

 2.7585, 7.2262,  
0.0000

 188.1396,  
254.2170, 102.4006

 1.0274, 3.6040,  
0.0000

 229.6134,

 0.0000, 1.4546,

305.4964, 131.8791

0.0000

276.7738,  
363.2458, 166.5328

■ 0.0000, 0.2565,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.2578, 60.8843,  
10.7724

■ 38.2578, 60.8843,  
10.7724

■ 36.4720, 59.9858,  
9.7772

■ 40.4072, 61.9511,  
12.8249

■ 36.1683, 59.8319,  
9.6424

■ 42.9659, 63.1987,  
16.1709

■ 45.9715, 64.6449,  
20.9808

■ 49.4554, 66.3024,  
27.3984

■ 53.4454, 68.1831,  
35.5500

■ 57.9669, 70.2973,  
45.5495

■ 63.0433, 72.6550,  
57.5010

■ 68.6964, 75.2653,  
71.5009

■ 74.9466, 78.1367,  
87.6393

# Harmonies

## Analogous

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



54.3443, 60.8843, 5.8613



38.2578, 60.8843, 10.7724



29.3574, 60.8843, 29.9855

# Triad

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



38.2578, 60.8843, 10.7724



43.1854, 60.8843, 226.4898



105.5471, 60.8843, 56.5118

# Complementary

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



38.2578, 60.8843, 10.7724



21.8705, 10.2392, 74.2259

# 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.



100.6109, 60.8843, 124.0781



38.2578, 60.8843, 10.7724



61.5422, 60.8843, 249.0245

# Square

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



38.2578, 60.8843, 10.7724



31.7063, 60.8843, 153.2100



83.2443, 60.8843, 203.9074



95.4971, 60.8843, 20.6493



# Rectangle

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



38.2578, 60.8843, 10.7724



27.2477, 60.8843, 57.6932



83.2443, 60.8843, 203.9074



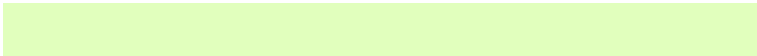
105.6066, 60.8843, 75.7068

# Sweetspot

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



38.2592, 60.8869, 10.7737



75.9580, 91.1855, 61.5707



38.6095, 29.4041, 4.6785



15.7957, 19.3020, 12.1202



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.



38.2592, 60.8869, 10.7737



46.4979, 77.0556, 12.4225



28.7080, 55.9631, 10.3267



14.9394, 16.4758, 15.2972



21.0224, 34.6189, 5.5741



1.6602, 2.6132, 0.4169



# Inverse Universe

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



21.8705, 10.2392, 74.2259



25.1809, 10.8961, 95.3837



43.2966, 21.2848, 75.2286



14.1995, 14.2051, 18.1378



11.4643, 4.9760, 42.7394



0.9530, 0.4223, 3.1632



# Previews

## White Background



This preview shows how the XYZ color 38.2578, 60.8843, 10.7724 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 38.2578, 60.8843, 10.7724 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 38.2578, 60.8843, 10.7724**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.2578, 60.8843, 10.7724.



This preview shows how white text looks on a background with the XYZ color 38.2578, 60.8843,



# 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

38.2578, 60.8843, 10.7724

### Protanopia

54.3352, 60.0524, 9.2998

### Deuteranopia

61.1256, 59.7262, 12.5816



## Tritanopia

52.5866, 60.4255, 83.0204

# Trichromacy



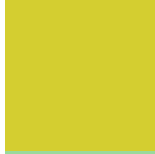
## Original Color

38.2578, 60.8843, 10.7724



## Protanomaly

46.6946, 59.3784, 9.7096



## Deuteranomaly

49.7562, 58.3531, 11.4371



## Tritanomaly

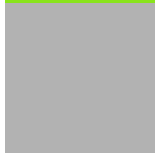
44.2090, 59.3154, 40.5714

# Monochromacy



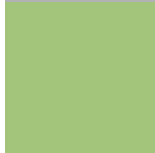
## Original Color

38.2578, 60.8843, 10.7724



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

38.4193, 48.6964, 26.1133

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.2578, 60.8843, 10.7724 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(137, 228, 27)` looks like.

```
.text, #text, p{  
    color:rgb(137, 228, 27)  
}
```

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(137, 228, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 228, 27) }
```

## Border

The CSS property to change the border of an element to XYZ 38.2578, 60.8843, 10.7724 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(137, 228, 27) }
```



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

```
.border{ border-color:rgb(137, 228, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 228, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 228, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 228, 27);  
box-shadow:4px 4px 4px 4px rgb(137, 228,  
27) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.2578, 60.8843, 10.7724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 228, 27) }
```

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

```
.background{ background-color: rgb(137,  
228, 27) }
```

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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