

# Converting Colors

XYZ(38.7883, 41.2177, 13.0446)

Have a look what the booklet for  
XYZ(38.7883, 41.2177, 13.0446)  
contains.

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# Color

**XYZ(38.7758, 41.1698,  
13.1106)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C5AA4E
RGB	197, 170, 78
RGB Percent	77%, 67%, 31%
CMY	0.2275, 0.3333, 0.6941
CMYK	0.00, 0.14, 0.60, 0.23
HSL	46°, 51%, 54%
HSV	46°, 60%, 77%
XYZ	38.7758, 41.1698, 13.1106
YIQ	167.5850, 45.6240, -22.8880

# Conversions

## Conversions Part 2

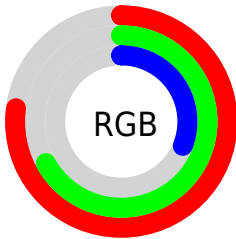
<b>Format</b>	<b>Color</b>
<b>RYB</b>	113, 197, 78
Decimal	12954190
CIELab	70.29, -1.13, 50.02
CIELCh	70, 50.036, 91.292
Yxy	41.1698, 0.4167, 0.4424
Android (android.graphics.Color)	4291144270 (0xFFC5AA4E)
YUV	167.5850, -44.1654, 25.7970
Hunter-Lab	64.1637, -4.4143, 32.7998

# Details

The XYZ color **38.7758, 41.1698, 13.1106** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **18.2714, 15.7535, 54.9007**, and the grayscale version is **37.2107, 39.1486, 42.6328**.

A 20% lighter version of the original color is **72.1945, 76.7221, 32.1229**, and **17.4691, 18.6025, 3.5896** is the 20% darker color. If you saturate the color by 10%, you get **37.3493, 39.2830, 9.6573**, and if you desaturate by 10%, it is **40.4442, 43.2021, 17.6890**.

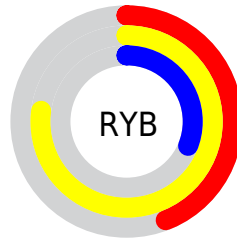
# Distribution



Red (77%)

Green (67%)

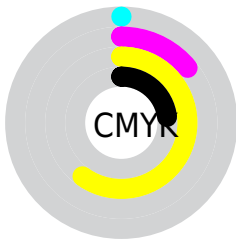
Blue (31%)



Red (44%)

Yellow (77%)

Blue (31%)

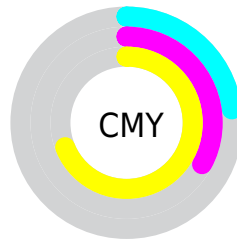


Cyan (0%)

Magenta (14%)

Yellow (60%)

Black (23%)



Cyan (23%)

Magenta (33%)


Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7758, 41.1698, 13.1106 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 38.7758, 41.1698, 13.1106 by changing the saturation by 10% instead.





 38.7758, 41.1698,  
13.1106


 38.7758, 41.1698,  
13.1106


332.1599,  
351.0298, 222.8579

 26.7653, 28.4518,  
7.3731


 72.5920, 76.9416,  
32.1964

 17.5327, 18.6665,  
3.6146


 95.1283, 100.7642,  
46.3819


 10.7127, 11.4295,  
1.4164


 121.9040,  
129.0570, 64.2204

 5.9398, 6.3565,  
0.1544

 153.2844,  
162.2046, 86.1305

 2.8488, 3.0631,  
0.0000

 189.6348,  
200.5913, 112.5308

 1.0743, 1.1647,  
0.0000

231.3207,

 0.0035, 0.0326,

244.6014, 143.8398

0.0000

278.7073,  
294.6195, 180.4760

■ 0.0000, 0.0000,  
0.0000

■ 38.7758, 41.1698,  
13.1106

■ 38.7758, 41.1698,  
13.1106

■ 37.3493, 39.2830,  
9.6573

■ 40.4442, 43.2021,  
17.6890

■ 36.1421, 37.5274,  
7.2238

■ 42.3691, 45.3815,  
23.4804

■ 35.1317, 35.8952,  
5.6886

■ 44.5671, 47.7165,  
30.5668

■ 34.3045, 34.4276,  
4.8372

■ 47.0525, 50.2134,  
39.0222

■ 49.8386, 52.8778,  
48.9151

■ 52.9378, 55.7152,  
60.3094

■ 56.3616, 58.7305,  
73.2651

■ 60.1211, 61.9287,  
87.8390

■ 64.1781, 65.2948,  
103.8283

# Harmonies

## Analogous

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



47.2169, 41.1698, 15.7101



38.7758, 41.1698, 13.1106



31.4884, 41.1698, 16.2223

# Triad

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



38.7758, 41.1698, 13.1106



27.1280, 41.1698, 72.6588



54.6794, 41.1698, 70.2497

# Complementary

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



38.7758, 41.1698, 13.1106



18.2714, 15.7535, 54.9007

# 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.



47.9191, 41.1698, 95.6443



38.7758, 41.1698, 13.1106



32.0247, 41.1698, 97.3437

# Square

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



38.7758, 41.1698, 13.1106



25.3711, 41.1698, 45.8540



39.4877, 41.1698, 106.9466



57.1366, 41.1698, 43.8152



# Rectangle

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



38.7758, 41.1698, 13.1106



28.0562, 41.1698, 22.0756



39.4877, 41.1698, 106.9466



52.7922, 41.1698, 79.4742

# Sweetspot

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



38.7768, 41.1718, 13.1114



85.2888, 90.9240, 73.4414



28.3399, 18.3552, 15.6219



17.9548, 19.1680, 14.6710



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.



38.7768, 41.1718, 13.1114



66.2728, 69.4852, 15.9478



36.9140, 48.5104, 14.6261



11.3120, 11.9931, 11.2815



22.6289, 22.7750, 3.2033



1.1230, 1.1814, 0.1688



# Inverse Universe

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



18.2714, 15.7535, 54.9007



26.5886, 20.3960, 97.1432



19.2001, 12.7784, 54.2775



10.2486, 10.6714, 13.4371



7.2910, 3.9760, 35.1275



0.4018, 0.3014, 1.6821



# Previews

## White Background



This preview shows how the XYZ color 38.7758, 41.1698, 13.1106 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

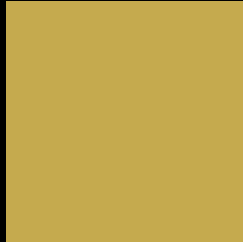
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.7758, 41.1698, 13.1106 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 38.7758, 41.1698, 13.1106**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7758, 41.1698, 13.1106.



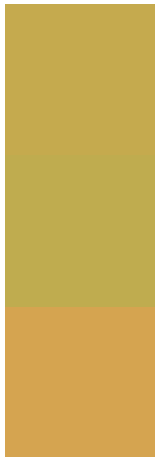
This preview shows how white text looks on a background with the XYZ color 38.7758, 41.1698,



# 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

38.7758, 41.1698, 13.1106

### Protanopia

37.6497, 41.1459, 13.3547

### Deuteranopia

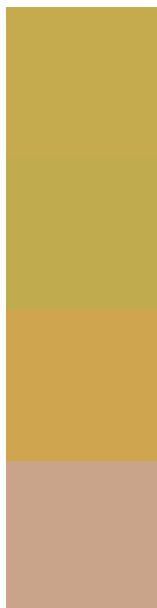
42.1640, 41.2762, 13.3342



## Tritanopia

45.1940, 41.0993, 44.5807

# Trichromacy



## Original Color

38.7758, 41.1698, 13.1106

## Protanomaly

37.9665, 41.0278, 13.3152

## Deuteranomaly

40.7796, 41.1023, 13.1814

## Tritanomaly

42.2200, 40.9425, 29.7222

# Monochromacy



## Original Color

38.7758, 41.1698, 13.1106

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

37.1515, 39.7089, 28.6282

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7758, 41.1698, 13.1106 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(197, 170, 78)` looks like.

```
.text, #text, p{  
    color:rgb(197, 170, 78)  
}
```

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(197, 170, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(197, 170, 78) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7758, 41.1698, 13.1106 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(197, 170, 78) }
```



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

```
.border{ border-color:rgb(197, 170, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(197, 170, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(197, 170, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(197, 170, 78);  
box-shadow:4px 4px 4px 4px rgb(197, 170,  
78) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7758, 41.1698, 13.1106 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(197, 170, 78) }
```

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

```
.background{ background-color: rgb(197,  
170, 78) }
```

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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