

# Converting Colors

XYZ(40.3478, 38.9383, 20.5125)

Have a look what the booklet for  
XYZ(40.3478, 38.9383, 20.5125)  
contains.

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# Color

**XYZ(40.1692, 38.7813,  
20.4073)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CC9F6F
RGB	204, 159, 111
RGB Percent	80%, 62%, 44%
CMY	0.2000, 0.3765, 0.5647
CMYK	0.00, 0.22, 0.46, 0.20
HSL	31°, 48%, 62%
HSV	31°, 46%, 80%
XYZ	40.1692, 38.7813, 20.4073
YIQ	166.9830, 42.2280, -5.3880

# Conversions

## Conversions Part 2

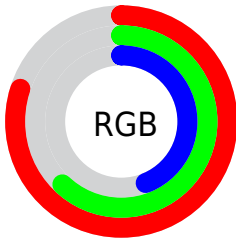
<b>Format</b>	<b>Color</b>
<b>RYB</b>	198, 204, 111
Decimal	13410159
CIELab	68.59, 10.60, 31.39
CIELCh	69, 33.134, 71.344
Yxy	38.7813, 0.4043, 0.3903
Android (android.graphics.Color)	4291600239 (0xFFCC9F6F)
YUV	166.9830, -27.5996, 32.4639
Hunter-Lab	62.2746, 6.1578, 24.1630

# Details

The XYZ color **40.1692, 38.7813, 20.4073** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **29.3426, 31.5149, 61.6631**, and the grayscale version is **36.8389, 38.7574, 42.2068**.

A 20% lighter version of the original color is **71.8974, 71.9975, 44.7578**, and **18.4448, 17.3688, 6.9378** is the 20% darker color. If you saturate the color by 10%, you get **37.5418, 35.1235, 14.6085**, and if you desaturate by 10%, it is **43.1906, 42.8165, 27.6037**.

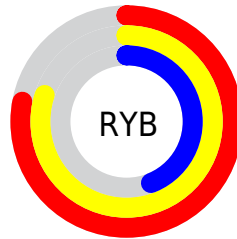
# Distribution



Red (80%)

Green (62%)

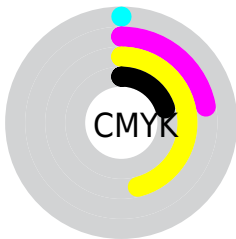
Blue (44%)



Red (78%)

Yellow (80%)

Blue (44%)

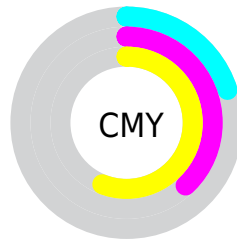


Cyan (0%)

Magenta (22%)

Yellow (46%)

Black (20%)



Cyan (20%)

Magenta (38%)


Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1692, 38.7813, 20.4073 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 40.1692, 38.7813, 20.4073 by changing the saturation by 10% instead.





 40.1692, 38.7813,  
20.4073


 40.1692, 38.7813,  
20.4073


337.9584,  
340.9598, 266.7884

 27.8553, 26.5896,  
12.5044


 74.7038, 73.3041,  
44.9669


 18.3565, 17.2653,  
6.9615


 97.6552, 96.4040,  
62.4608

 11.3075, 10.4238,  
3.3600


 124.8831,  
123.9088, 83.9887

 6.3429, 5.6808,  
1.2812

 156.7530,  
156.2029, 109.9692

 3.0973, 2.6520,  
0.0463

193.6301,  
193.6706, 140.8209

 1.2054, 0.9529,  
0.0000

235.8798,

 0.1106, 0.0000,

236.6964, 176.9623

0.0000

283.8674,  
285.6647, 218.8120

■ 0.0000, 0.0000,  
0.0000

■ 40.1692, 38.7813,  
20.4073

■ 40.1692, 38.7813,  
20.4073

■ 37.5418, 35.1235,  
14.6085

■ 43.1906, 42.8165,  
27.6037

■ 35.2847, 31.8243,  
10.1108

■ 46.6221, 47.2360,  
36.2808

■ 33.3757, 28.8708,  
6.8088

■ 50.4825, 52.0535,  
46.5179

■ 31.7881, 26.2471,  
4.5794

■ 54.7882, 57.2801,  
58.3878

■ 30.4899, 23.9347,  
3.2714

■ 59.5547, 62.9266,  
71.9589

■ 29.9840, 23.0018,  
2.8595

■ 64.7970, 69.0031,  
87.2956

■ 70.5289, 75.5194,  
104.4587

■ 73.5161, 81.1860,  
106.4035

■ 76.4684, 87.0906,  
107.3876

# Harmonies

## Analogous

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



44.9310, 38.7813, 25.9256



40.1692, 38.7813, 20.4073



34.9189, 38.7813, 19.8279

# Triad

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



40.1692, 38.7813, 20.4073



27.8598, 38.7813, 48.1440



43.9050, 38.7813, 67.7267

# Complementary

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



40.1692, 38.7813, 20.4073



29.3426, 31.5149, 61.6631

# 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.



38.8727, 38.7813, 77.1947



40.1692, 38.7813, 20.4073



29.8193, 38.7813, 64.2329

# Square

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



40.1692, 38.7813, 20.4073



28.1358, 38.7813, 33.6732



33.7386, 38.7813, 75.7833



47.2245, 38.7813, 52.1172



# Rectangle

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



40.1692, 38.7813, 20.4073



31.8765, 38.7813, 22.1079



33.7386, 38.7813, 75.7833



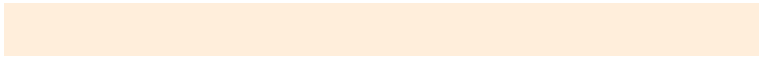
42.3386, 38.7813, 71.8825

# Sweetspot

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



40.1702, 38.7832, 20.4081



84.5610, 87.3808, 79.6344



36.7150, 26.6580, 35.3333



17.7823, 18.3131, 16.1856



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.



40.1702, 38.7832, 20.4081



62.1210, 58.0938, 24.0834



49.3639, 57.1707, 23.4727



11.6832, 12.1554, 11.8099



18.9660, 14.6650, 1.8310



1.0542, 0.9082, 0.1197

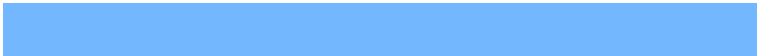


# Inverse Universe

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



29.3426, 31.5149, 61.6631



41.9397, 44.5526, 100.9968



23.1394, 19.1084, 59.5953



11.0422, 11.7248, 14.2515



9.7429, 8.5097, 37.0853



0.5785, 0.5908, 1.9385



# Previews

## White Background



This preview shows how the XYZ color 40.1692, 38.7813, 20.4073 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

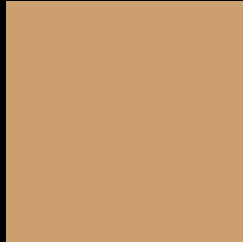
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.1692, 38.7813, 20.4073 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 40.1692, 38.7813, 20.4073**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1692, 38.7813, 20.4073.



This preview shows how white text looks on a background with the XYZ color 40.1692, 38.7813,



# 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

40.1692, 38.7813, 20.4073

### Protanopia

35.9120, 38.6761, 21.4921

### Deuteranopia

39.5274, 38.7068, 20.4268



## Tritanopia

44.2236, 38.6921, 40.2594

# Trichromacy



## Original Color

40.1692, 38.7813, 20.4073

## Protanomaly

37.2424, 38.5620, 21.1031

## Deuteranomaly

39.7972, 38.8459, 20.4394

## Tritanomaly

42.5643, 38.7524, 32.0246

# Monochromacy



## Original Color

40.1692, 38.7813, 20.4073

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

37.3643, 38.3608, 33.0388

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1692, 38.7813, 20.4073 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(204, 159, 111)` looks like.

```
.text, #text, p{  
    color:rgb(204, 159, 111)  
}
```

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(204, 159, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 159, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1692, 38.7813, 20.4073 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(204, 159, 111) }
```



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

```
.border{ border-color:rgb(204, 159, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 159, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 159, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 159, 111);  
box-shadow:4px 4px 4px 4px rgb(204, 159,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1692, 38.7813, 20.4073 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 159, 111) }
```

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

```
.background{ background-color: rgb(204,  
159, 111) }
```

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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