

# Converting Colors

XYZ(40.0997, 39.3025, 20.1381)

Have a look what the booklet for  
XYZ(40.0997, 39.3025, 20.1381)  
contains.

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# **Color**

**XYZ(40.1879, 39.3120,  
20.2217)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CBA16E
RGB	203, 161, 110
RGB Percent	80%, 63%, 43%
CMY	0.2039, 0.3686, 0.5686
CMYK	0.00, 0.21, 0.46, 0.20
HSL	33°, 47%, 61%
HSV	33°, 46%, 80%
XYZ	40.1879, 39.3120, 20.2217
YIQ	167.7440, 41.4030, -6.9570

# Conversions

## Conversions Part 2

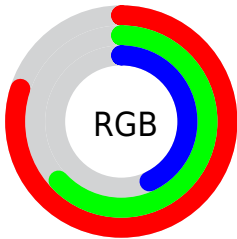
<b>Format</b>	<b>Color</b>
<b>RYB</b>	187, 203, 110
Decimal	13345134
CIELab	68.98, 9.00, 32.40
CIElCh	69, 33.631, 74.475
Yxy	39.3120, 0.4030, 0.3942
Android (android.graphics.Color)	4291535214 (0xFFCBA16E)
YUV	167.7440, -28.4678, 30.9195
Hunter-Lab	62.6993, 4.6881, 24.7674

# Details

The XYZ color **40.1879, 39.3120, 20.2217** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **28.4377, 30.0821, 60.8073**, and the grayscale version is **37.2156, 39.1537, 42.6384**.

A 20% lighter version of the original color is **72.3175, 72.9804, 44.4575**, and **18.4509, 17.6918, 6.8573** is the 20% darker color. If you saturate the color by 10%, you get **37.6634, 35.8337, 14.5379**, and if you desaturate by 10%, it is **43.0850, 43.1303, 27.2796**.

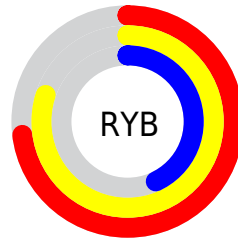
# Distribution



Red (80%)

Green (63%)

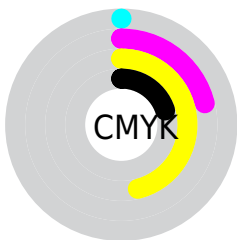
Blue (43%)



Red (73%)

Yellow (80%)

Blue (43%)

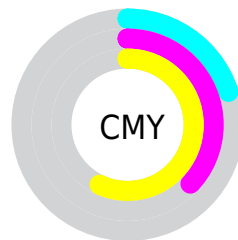


Cyan (0%)

Magenta (21%)

Yellow (46%)

Black (20%)



Cyan (20%)

Magenta (37%)


Yellow (57%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1879, 39.3120, 20.2217 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 40.1879, 39.3120, 20.2217 by changing the saturation by 10% instead.





 40.1879, 39.3120,  
20.2217


 40.1879, 39.3120,  
20.2217


338.0358,  
343.2152, 265.7566

 27.8699, 27.0025,  
12.3706


 74.7321, 74.1147,  
44.6524


 18.3676, 17.5751,  
6.8710


 97.6890, 97.3767,  
62.0691

 11.3155, 10.6454,  
3.3043


 124.9230,  
125.0584, 83.5115

 6.3483, 5.8289,  
1.2521

 156.7993,  
157.5441, 109.3980

 3.1007, 2.7413,  
0.0220

193.6834,  
195.2182, 140.1472

 1.2072, 0.9982,  
0.0000

235.9406,

 0.1121, 0.0000,

238.4652, 176.1777

0.0000

283.9363,  
287.6694, 217.9080

■ 0.0000, 0.0000,  
0.0000

■ 40.1879, 39.3120,  
20.2217

■ 40.1879, 39.3120,  
20.2217

■ 37.6634, 35.8337,  
14.5379

■ 43.0850, 43.1303,  
27.2796

■ 35.4885, 32.6777,  
10.1328

■ 46.3702, 47.2940,  
35.7935

■ 33.6419, 29.8328,  
6.9022


■ 50.0612, 51.8157,  
45.8418


■ 32.0980, 27.2845,  
4.7243


■ 54.1739, 56.7053,  
57.4965


■ 30.8254, 25.0158,  
3.4480


■ 58.7232, 61.9724,  
70.8250

 30.3493, 24.1381,  
3.0595

 63.7231, 67.6259,  
85.8907

 69.1871, 73.6748,  
102.7539

 72.1979, 78.9553,  
106.0424

 74.8806, 84.3207,  
106.9366

# Harmonies

## Analogous

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



45.2006, 39.3120, 25.2962



40.1879, 39.3120, 20.2217



34.8508, 39.3120, 20.1370

# Triad

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



40.1879, 39.3120, 20.2217



28.2591, 39.3120, 50.6027



45.0494, 39.3120, 67.4699

# Complementary

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



40.1879, 39.3120, 20.2217



28.4377, 30.0821, 60.8073

# 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.



39.9970, 39.3120, 78.1577



40.1879, 39.3120, 20.2217



30.4915, 39.3120, 66.9540

# Square

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



40.1879, 39.3120, 20.2217



28.2996, 39.3120, 35.3894



34.6773, 39.3120, 77.9490



48.1847, 39.3120, 51.1882



# Rectangle

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



40.1879, 39.3120, 20.2217



31.8365, 39.3120, 22.8129



34.6773, 39.3120, 77.9490



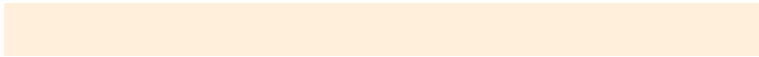
43.4988, 39.3120, 71.9914

# Sweetspot

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



40.1889, 39.3139, 20.2225



84.8969, 88.0526, 79.7464



35.9876, 26.1619, 33.4638



17.8641, 18.4767, 16.2128



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.



40.1889, 39.3139, 20.2225



63.0970, 60.0459, 24.4088



47.9631, 56.1031, 23.0534



11.7137, 12.2164, 11.8201



19.4064, 15.5457, 1.9778



1.0763, 0.9524, 0.1271



# Inverse Universe

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



28.4377, 30.0821, 60.8073



41.0240, 42.7212, 100.6916



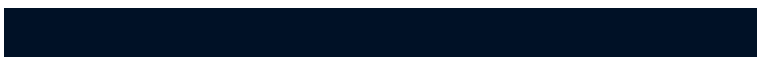
23.1787, 18.9815, 58.9418



11.0120, 11.6643, 14.2414



9.3657, 7.7554, 36.9596



0.5586, 0.5510, 1.9318



# Previews

## White Background



This preview shows how the XYZ color 40.1879, 39.3120, 20.2217 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

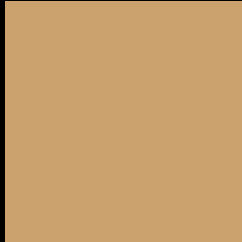
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.1879, 39.3120, 20.2217 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

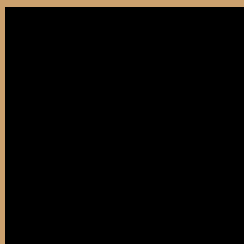
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

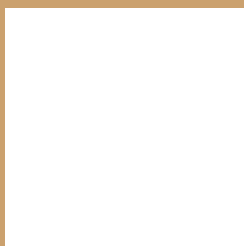
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.1879, 39.3120, 20.2217**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1879, 39.3120, 20.2217.



This preview shows how white text looks on a background with the XYZ color 40.1879, 39.3120,



# 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

40.1879, 39.3120, 20.2217

### Protanopia

36.6970, 39.6355, 21.3391

### Deuteranopia

40.1879, 39.3120, 20.2217



## Tritanopia

44.4510, 39.2743, 41.3143

# Trichromacy



## Original Color

40.1879, 39.3120, 20.2217

## Protanomaly

37.7961, 39.3894, 20.9401

## Deuteranomaly

40.1879, 39.3120, 20.2217

## Tritanomaly

42.6989, 39.3111, 32.5315

# Monochromacy



## Original Color

40.1879, 39.3120, 20.2217

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

37.7776, 38.8406, 33.1097

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1879, 39.3120, 20.2217 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(203, 161, 110)` looks like.

```
.text, #text, p{  
    color:rgb(203, 161, 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(203, 161, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 161, 110) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1879, 39.3120, 20.2217 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(203, 161, 110) }
```



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

```
.border{ border-color:rgb(203, 161, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 161, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 161, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 161, 110);  
box-shadow:4px 4px 4px 4px rgb(203, 161,  
110) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1879, 39.3120, 20.2217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 161, 110) }
```

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

```
.background{ background-color: rgb(203,  
161, 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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