

# Converting Colors

XYZ(41.8435, 41.6948, 23.6152)

Have a look what the booklet for  
XYZ(41.8435, 41.6948, 23.6152)  
contains.

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# **Color**

**XYZ(41.8375, 41.6900,  
23.6112)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CBA778
RGB	203, 167, 120
RGB Percent	80%, 65%, 47%
CMY	0.2039, 0.3451, 0.5294
CMYK	0.00, 0.18, 0.41, 0.20
HSL	34°, 44%, 63%
HSV	34°, 41%, 80%
XYZ	41.8375, 41.6900, 23.6112
YIQ	172.4060, 36.5430, -6.9850

# Conversions

## Conversions Part 2

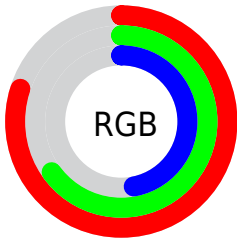
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 203, 120
Decimal	13346680
CIELab	70.66, 6.83, 29.25
CIELCh	71, 30.037, 76.864
Yxy	41.6900, 0.3905, 0.3891
Android (android.graphics.Color)	4291536760 (0xFFCBA778)
YUV	172.4060, -25.8362, 26.8309
Hunter-Lab	64.5678, 2.6676, 23.5162

# Details

The XYZ color **41.8375, 41.6900, 23.6112** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **30.4133, 32.0807, 61.0892**, and the grayscale version is **39.5333, 41.5921, 45.2938**.

A 20% lighter version of the original color is **74.9041, 76.5197, 50.3571**, and **19.3007, 18.9194, 8.5958** is the 20% darker color. If you saturate the color by 10%, you get **39.1757, 38.1334, 17.2767**, and if you desaturate by 10%, it is **44.8724, 45.5747, 31.3595**.

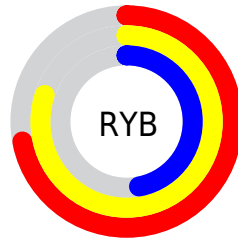
# Distribution



Red (80%)

Green (65%)

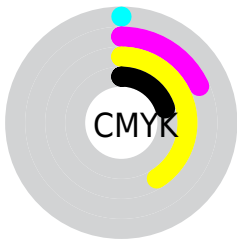
Blue (47%)



Red (72%)

Yellow (80%)

Blue (47%)

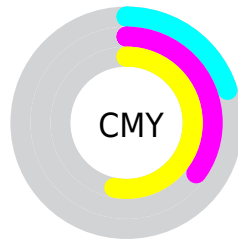


Cyan (0%)

Magenta (18%)

Yellow (41%)

Black (20%)



Cyan (20%)

Magenta (35%)

Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8375, 41.6900, 23.6112 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 41.8375, 41.6900, 23.6112 by changing the saturation by 10% instead.



■ 41.8375, 41.6900,  
23.6112

■ 41.8375, 41.6900,  
23.6112

344.8120,  
353.1963, 284.0719

■ 29.1646, 28.8586,  
14.8359

■ 77.2203, 77.7302,  
50.3308

■ 19.3503, 18.9739,  
8.5590

■ 100.6610,  
101.7079, 69.1123

■ 12.0292, 11.6514,  
4.3618

■ 128.4217,  
130.1698, 92.0662

■ 6.8359, 6.5068,  
1.8258

160.8676,  
163.5003, 119.6112

■ 3.4051, 3.1556,  
0.4449

198.3643,  
202.0838, 152.1657

■ 1.3714, 1.2135,  
0.0000

241.2770,

■ 0.2357, 0.0727,

246.3047, 190.1482

0.0000

289.9711,  
296.5474, 233.9775

■ 0.0000, 0.0000,  
0.0000

■ 41.8375, 41.6900,  
23.6112

■ 41.8375, 41.6900,  
23.6112

■ 39.1757, 38.1334,  
17.2767

■ 44.8724, 45.5747,  
31.3595

■ 36.8650, 34.8879,  
12.2650

■ 48.2946, 49.7918,  
40.5997

■ 34.8858, 31.9436,  
8.4786

■ 52.1211, 54.3530,  
51.4073

■ 33.2144, 29.2874,  
5.8047

■ 56.3672, 59.2675,  
63.8517

■ 31.8232, 26.9044,  
4.1098

■ 61.0469, 64.5441,  
77.9983

■ 30.7551, 24.9495,  
3.1948

■ 66.1738, 70.1913,  
93.9088

■ 70.5960, 75.7513,  
105.5084

■ 73.0889, 80.7371,  
106.3394

■ 75.7070, 85.9734,  
107.2121

# Harmonies

## Analogous

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



46.5271, 41.6900, 28.2026



41.8375, 41.6900, 23.6112



36.9160, 41.6900, 23.9106

# Triad

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



41.8375, 41.6900, 23.6112



31.1627, 41.6900, 53.8079



47.0183, 41.6900, 66.8030

# Complementary

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



41.8375, 41.6900, 23.6112



30.4133, 32.0807, 61.0892

# 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.



42.4635, 41.6900, 76.9575



41.8375, 41.6900, 23.6112



33.4418, 41.6900, 68.4460

# Square

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



41.8375, 41.6900, 23.6112



31.0258, 41.6900, 39.4515



37.4921, 41.6900, 77.6149



49.6825, 41.6900, 51.9037



# Rectangle

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



41.8375, 41.6900, 23.6112



34.1624, 41.6900, 26.8239



37.4921, 41.6900, 77.6149



45.6411, 41.6900, 71.0089

# Sweetspot

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



41.8385, 41.6920, 23.6120



86.4205, 90.0068, 83.6240



37.4611, 28.5762, 35.5969



18.3100, 19.0437, 17.3629



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.



41.8385, 41.6920, 23.6120



66.1154, 64.5585, 30.1131



48.2596, 56.1896, 26.0719



11.7307, 12.2503, 11.8257



19.6644, 16.0618, 2.0638



1.0891, 0.9778, 0.1313

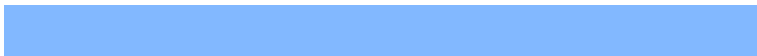


# Inverse Universe

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



30.4133, 32.0807, 61.0892



44.4537, 46.3499, 101.2112



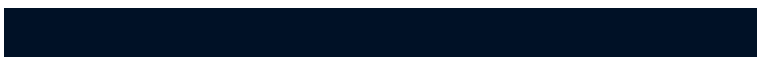
25.8303, 22.0415, 59.3930



10.9952, 11.6309, 14.2359



9.1698, 7.3636, 36.8943

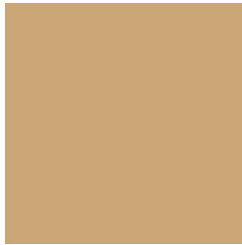


0.5480, 0.5298, 1.9283



# Previews

## White Background



This preview shows how the XYZ color 41.8375, 41.6900, 23.6112 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

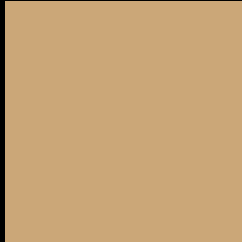
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8375, 41.6900, 23.6112 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 41.8375, 41.6900, 23.6112**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8375, 41.6900, 23.6112.



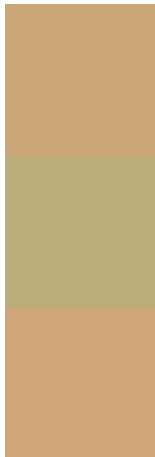
This preview shows how white text looks on a background with the XYZ color 41.8375, 41.6900,



# 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

41.8375, 41.6900, 23.6112

### Protanopia

38.9499, 41.8571, 24.4387

### Deuteranopia

42.4800, 41.7503, 23.5890



## Tritanopia

46.1261, 41.5686, 45.1276

# Trichromacy



## Original Color

41.8375, 41.6900, 23.6112

## Protanomaly

40.0064, 41.8438, 24.0572

## Deuteranomaly

42.2032, 41.6076, 23.5760

## Tritanomaly

44.3835, 41.6493, 36.2717

# Monochromacy



## Original Color

41.8375, 41.6900, 23.6112

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

39.6529, 41.1166, 35.9834

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8375, 41.6900, 23.6112 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, 167, 120)` looks like.

```
.text, #text, p{  
    color:rgb(203, 167, 120)  
}
```

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, 167, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 167, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8375, 41.6900, 23.6112 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, 167, 120) }
```



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

```
.border{ border-color:rgb(203, 167, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 167, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 167, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 167, 120);  
box-shadow:4px 4px 4px 4px rgb(203, 167,  
120) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8375, 41.6900, 23.6112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 167, 120) }
```

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

```
.background{ background-color: rgb(203,  
167, 120) }
```

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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