

# Converting Colors

XYZ(42.8257, 42.5803, 6.4519)

Have a look what the booklet for  
XYZ(42.8257, 42.5803, 6.4519)  
contains.

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# Color

**XYZ(42.8257, 42.5803,  
6.4519)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DAA710
RGB	218, 167, 16
RGB Percent	85%, 65%, 6%
CMY	0.1451, 0.3451, 0.9372
CMYK	0.00, 0.23, 0.93, 0.15
HSL	45°, 86%, 46%
HSV	45°, 93%, 85%
XYZ	42.8257, 42.5803, 6.4519
YIQ	165.0350, 78.8670, -36.1490

# Conversions

## Conversions Part 2

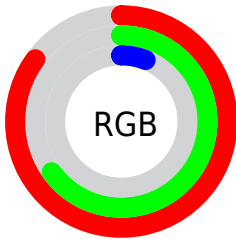
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	84, 218, 16
Decimal	14329616
CIE Lab	71.27, 7.16, 72.49
CIE LCh	71, 72.844, 84.361
Yxy	42.5803, 0.4662, 0.4635
Android (android.graphics.Color)	4292519696 (0xFFDAA710)
YUV	165.0350, -73.4743, 46.4503
Hunter-Lab	65.2536, 2.9552, 39.8153

# Details

The XYZ color **42.8257, 42.5803, 6.4519** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **14.8762, 9.1872, 67.3184**, and the grayscale version is **36.0977, 37.9776, 41.3576**.

A 20% lighter version of the original color is **68.9226, 74.1271, 18.8590**, and **20.3459, 19.7599, 2.7417** is the 20% darker color. If you saturate the color by 10%, you get **42.0039, 41.0868, 5.7167**, and if you desaturate by 10%, it is **44.1097, 44.7435, 8.1294**.

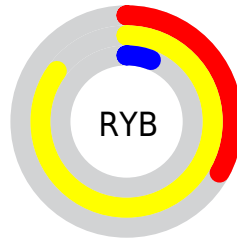
# Distribution



Red (85%)

Green (65%)

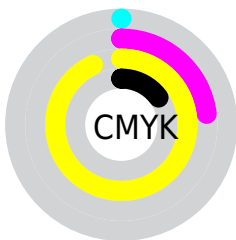
Blue (6%)



Red (33%)

Yellow (85%)

Blue (6%)

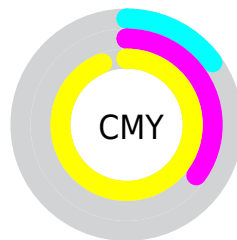


Cyan (0%)

Magenta (23%)

Yellow (93%)

Black (15%)



Cyan (15%)

Magenta (35%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.8257, 42.5803, 6.4519 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 42.8257, 42.5803, 6.4519 by changing the saturation by 10% instead.





 42.8257, 42.5803,  
6.4519


 42.8257, 42.5803,  
6.4519


348.8281,  
356.8829, 172.4827

 29.9423, 29.5560,  
3.0486


 78.7051, 79.0771,  
19.3555


 19.9427, 19.5018,  
1.1195


 102.4319,  
103.3184, 29.6929

 12.4614, 12.0334,  
0.0000


 130.5038,  
132.0674, 43.1786

 7.1331, 6.7664,  
0.0000

 163.2862,  
165.7086, 60.2314

 3.5926, 3.3165,  
0.0000

 201.1445,  
204.6264, 81.2696

 1.4743, 1.2991,  
0.0000

 244.4440,

 0.3083, 0.1405,

249.2051, 106.7119

0.0000

293.5501,  
299.8291, 136.9768

■ 0.0000, 0.0000,  
0.0000

■ 42.8257, 42.5803,  
6.4519

■ 42.8257, 42.5803,  
6.4519

■ 42.0039, 41.0868,  
5.7167

■ 44.1097, 44.7435,  
8.1294

■ 45.6416, 47.0735,  
10.9020

■ 47.4542, 49.5861,  
14.9359

■ 49.5740, 52.2928,  
20.3686

■ 52.0242, 55.2035,  
27.3194

■ 54.8255, 58.3273,  
35.8951

■ 57.9968, 61.6724,  
46.1926

■ 61.5554, 65.2467,  
58.3011

■ 65.5176, 69.0574,  
72.3038

# Harmonies

## Analogous

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



55.7751, 42.5803, 10.3455



42.8257, 42.5803, 6.4519



31.5269, 42.5803, 8.0974

# Triad

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



42.8257, 42.5803, 6.4519



22.6089, 42.5803, 80.0546



62.7449, 42.5803, 97.7067

# Complementary

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



42.8257, 42.5803, 6.4519



14.8762, 9.1872, 67.3184

# 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.



50.9652, 42.5803, 138.7344



42.8257, 42.5803, 6.4519



28.2591, 42.5803, 125.4441

# Square

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



42.8257, 42.5803, 6.4519



21.2925, 42.5803, 40.0563



38.2048, 42.5803, 150.8441



68.6686, 42.5803, 53.2986



# Rectangle

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



42.8257, 42.5803, 6.4519



26.1574, 42.5803, 12.9613



38.2048, 42.5803, 150.8441



59.2368, 42.5803, 113.0908

# Sweetspot

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



42.8267, 42.5824, 6.4527



80.1267, 85.2576, 57.3611



30.2002, 15.7169, 7.2157



16.7428, 17.8123, 10.9740



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.



42.8267, 42.5824, 6.4527



59.7887, 58.3575, 8.1129



41.9309, 58.8231, 9.6347



13.8694, 14.6782, 13.8278



25.2549, 24.7953, 3.4549



1.7032, 1.7405, 0.2462



# Inverse Universe

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



14.8762, 9.1872, 67.3184



19.9047, 10.9294, 95.6682



14.8993, 6.4943, 66.7974



12.6045, 13.1487, 16.5258



8.4740, 4.8174, 40.2216



0.6177, 0.4495, 2.6287



# Previews

## White Background



This preview shows how the XYZ color 42.8257, 42.5803, 6.4519 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 42.8257, 42.5803, 6.4519 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 42.8257, 42.5803, 6.4519**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.8257, 42.5803, 6.4519.



This preview shows how white text looks on a background with the XYZ color 42.8257, 42.5803,



# 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

42.8257, 42.5803, 6.4519

### Protanopia

38.4735, 42.5773, 6.8066

### Deuteranopia

43.5642, 42.6883, 6.5158



## Tritanopia

50.0604, 42.4015, 42.1050

# Trichromacy



## Original Color

42.8257, 42.5803, 6.4519

## Protanomaly

40.0385, 42.5279, 6.6707

## Deuteranomaly

43.2526, 42.5286, 6.4595

## Tritanomaly

45.7542, 41.6541, 20.9578

# Monochromacy



## Original Color

42.8257, 42.5803, 6.4519

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

36.2726, 38.6105, 20.5797

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.8257, 42.5803, 6.4519 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(218, 167, 16)` looks like.

```
.text, #text, p{  
    color:rgb(218, 167, 16)  
}
```

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(218, 167, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 167, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 42.8257, 42.5803, 6.4519 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(218, 167, 16) }
```



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

```
.border{ border-color:rgb(218, 167, 16) }
```

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

Here you see how a box with a 4 pixel rgb(218, 167, 16) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 167, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 167, 16);  
box-shadow:4px 4px 4px 4px rgb(218, 167,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.8257, 42.5803, 6.4519 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 167, 16) }
```

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

```
.background{ background-color: rgb(218,  
167, 16) }
```

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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