

# Converting Colors

XYZ(41.5944, 38.2208, 6.6581)

Have a look what the booklet for  
XYZ(41.5944, 38.2208, 6.6581)  
contains.

<b>XYZ(41.7899, 38.4219, 6.6524)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(41.7899, 38.4219,  
6.6524)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE9921
RGB	222, 153, 33
RGB Percent	87%, 60%, 13%
CMY	0.1294, 0.4000, 0.8706
CMYK	0.00, 0.31, 0.85, 0.13
HSL	38°, 74%, 50%
HSV	38°, 85%, 87%
XYZ	41.7899, 38.4219, 6.6524
YIQ	159.9510, 79.6440, -22.6920

# Conversions

## Conversions Part 2

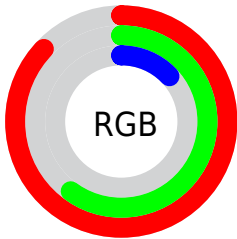
<b>Format</b>	<b>Color</b>
<b>RYB</b>	142, 222, 33
Decimal	14588193
CIELab	68.33, 16.71, 66.63
CIElCh	68, 68.689, 75.921
Yxy	38.4219, 0.4811, 0.4423
Android (android.graphics.Color)	4292778273 (0xFFDE9921)
YUV	159.9510, -62.5868, 54.4170
Hunter-Lab	61.9854, 11.8684, 37.0267

# Details

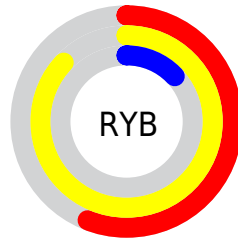
The XYZ color **41.7899, 38.4219, 6.6524** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **18.5631, 15.0995, 71.0426**, and the grayscale version is **33.6459, 35.3981, 38.5485**.

A 20% lighter version of the original color is **65.4412, 66.6410, 19.3114**, and **19.4493, 17.0798, 2.2716** is the 20% darker color. If you saturate the color by 10%, you get **40.2937, 35.7741, 5.0921**, and if you desaturate by 10%, it is **43.5826, 41.3356, 9.3217**.

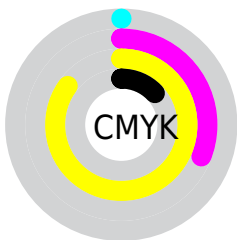
# Distribution



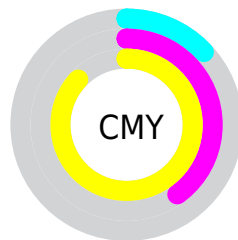
- Red (87%)
- Green (60%)
- Blue (13%)



- Red (56%)
- Yellow (87%)
- Blue (13%)



- Cyan (0%)
- Magenta (31%)
- Yellow (85%)
- Black (13%)




- Cyan (13%)
- Magenta (40%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7899, 38.4219, 6.6524 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 41.7899, 38.4219, 6.6524 by changing the saturation by 10% instead.




 41.7899, 38.4219,  
6.6524


 41.7899, 38.4219,  
6.6524


344.6177,  
339.4264, 174.2632


 29.1272, 26.3103,  
3.1705


 77.1487, 72.7543,  
19.7713


 19.3218, 17.0559,  
1.1824


 100.5755, 95.7440,  
30.2454

 12.0084, 10.2744,  
0.0000


 128.3211,  
123.1284, 43.8873

 6.8217, 5.5813,  
0.0000

 160.7508,  
155.2920, 61.1156

 3.3962, 2.5922,  
0.0000

 198.2299,  
192.6192, 82.3488

 1.3666, 0.9227,  
0.0000

 241.1239,

 0.2322, 0.0000,

235.4944, 108.0054

0.0000

289.7980,  
284.3020, 138.5040

■ 0.0000, 0.0000,  
0.0000

■ 41.7899, 38.4219,  
6.6524

■ 41.7899, 38.4219,  
6.6524

■ 40.2937, 35.7741,  
5.0921

■ 43.5826, 41.3356,  
9.3217

■ 39.6426, 34.5668,  
4.5827

■ 45.7057, 44.5269,  
13.2819

■ 48.1902, 48.0122,  
18.6838

■ 51.0622, 51.8048,  
25.6569

■ 54.3449, 55.9165,  
34.3159

■ 58.0596, 60.3582,  
44.7649

■ 62.2259, 65.1402,  
57.0993

■ 66.8619, 70.2722,  
71.4079

■ 71.9848, 75.7633,  
87.7737

# Harmonies

## Analogous

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



52.8968, 38.4219, 12.0612



41.7899, 38.4219, 6.6524



31.1290, 38.4219, 6.7983

# Triad

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



41.7899, 38.4219, 6.6524



20.0089, 38.4219, 60.2985



53.5018, 38.4219, 98.1203

# Complementary

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



41.7899, 38.4219, 6.6524



18.5631, 15.0995, 71.0426

# 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.



42.4975, 38.4219, 128.6769



41.7899, 38.4219, 6.6524



23.9273, 38.4219, 100.5199

# Square

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



41.7899, 38.4219, 6.6524



19.8937, 38.4219, 29.0061



31.7108, 38.4219, 129.7236



60.5054, 38.4219, 57.9786



# Rectangle

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



41.7899, 38.4219, 6.6524



25.6698, 38.4219, 9.8466



31.7108, 38.4219, 129.7236



50.0610, 38.4219, 110.5625

# Sweetspot

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



41.7908, 38.4239, 6.6531



78.9119, 81.9594, 59.6342



33.0812, 17.5827, 14.2994



16.5006, 17.0809, 11.6544



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.



41.7908, 38.4239, 6.6531



54.1448, 47.0697, 6.2316



49.3691, 64.1951, 11.2281



14.4291, 15.1442, 14.4694



23.6564, 20.7508, 2.7585



1.7241, 1.6070, 0.2193



# Inverse Universe

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



18.5631, 15.0995, 71.0426



21.9721, 15.0642, 96.3574



15.4855, 7.2675, 69.6931



13.3597, 14.0585, 17.3971



9.6780, 6.8255, 41.8557



0.7541, 0.6397, 2.9290



# Previews

## White Background



This preview shows how the XYZ color 41.7899, 38.4219, 6.6524 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 41.7899, 38.4219, 6.6524 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 41.7899, 38.4219, 6.6524**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7899, 38.4219, 6.6524.



This preview shows how white text looks on a background with the XYZ color 41.7899, 38.4219,



# 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

41.7899, 38.4219, 6.6524

### Protanopia

34.8917, 38.4624, 7.3353

### Deuteranopia

39.3252, 38.3963, 6.5669



## Tritanopia

47.5671, 38.4388, 35.0494

# Trichromacy



## Original Color

41.7899, 38.4219, 6.6524

## Protanomaly

37.0582, 38.2474, 7.0984

## Deuteranomaly

40.1601, 38.3229, 6.5767

## Tritanomaly

44.5581, 38.1403, 19.4813

# Monochromacy



## Original Color

41.7899, 38.4219, 6.6524

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

34.6227, 35.3961, 20.9269

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7899, 38.4219, 6.6524 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(222, 153, 33)` looks like.

```
.text, #text, p{  
    color:rgb(222, 153, 33)  
}
```

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(222, 153, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 153, 33) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7899, 38.4219, 6.6524 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(222, 153, 33) }
```



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

```
.border{ border-color:rgb(222, 153, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 153, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 153, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 153, 33);  
box-shadow:4px 4px 4px 4px rgb(222, 153,  
33) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7899, 38.4219, 6.6524 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 153, 33) }
```

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

```
.background{ background-color: rgb(222,  
153, 33) }
```

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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