

# Converting Colors

XYZ(40.2201, 21.7933, 2.0867)

Have a look what the booklet for  
XYZ(40.2201, 21.7933, 2.0867)  
contains.

<b>XYZ(40.1499, 21.7750, 2.0869)</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(40.1499, 21.7750,  
2.0869)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FA2700
RGB	250, 39, 0
RGB Percent	98%, 15%, 0%
CMY	0.0196, 0.8470, 1.0000
CMYK	0.00, 0.84, 1.00, 0.02
HSL	9°, 100%, 49%
HSV	9°, 100%, 98%
XYZ	40.1499, 21.7750, 2.0869
YIQ	97.6430, 138.2750, 32.6030

# Conversions

## Conversions Part 2

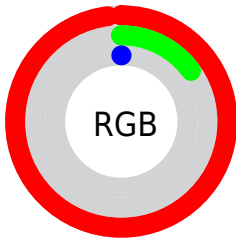
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	250, 46, 0
Decimal	16393984
CIE <sub>Lab</sub>	53.79, 74.35, 66.80
CIE <sub>LCh</sub>	54, 99.954, 41.937
Yxy	21.7750, 0.6272, 0.3402
Android (android.graphics.Color)	4294584064 (0xFFFA2700)
YUV	97.6430, -48.1380, 133.6171
Hunter-Lab	46.6637, 71.9217, 30.0130

# Details

The XYZ color **40.1499, 21.7750, 2.0869** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **40.5446, 53.4808, 98.6278**, and the grayscale version is **11.6151, 12.2200, 13.3076**.

A 20% lighter version of the original color is **47.4182, 32.3114, 8.0125**, and **19.5284, 10.0673, 0.9139** is the 20% darker color. If you saturate the color by 10%, you get **40.1502, 21.7762, 2.0871**, and if you desaturate by 10%, it is **41.2218, 23.6384, 3.3099**.

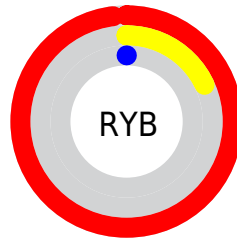
# Distribution



Red (98%)

Green (15%)

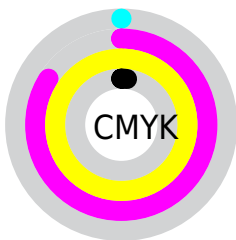
Blue (0%)



Red (98%)

Yellow (18%)

Blue (0%)

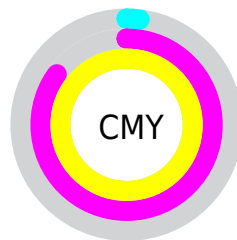


Cyan (0%)

Magenta (84%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (85%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 40.1499, 21.7750, 2.0869 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 40.1499, 21.7750, 2.0869 by changing the saturation by 10% instead.





 40.1499, 21.7750,  
2.0869


 40.1499, 21.7750,  
2.0869

 337.8786,  
261.3690, 123.7119


 27.8402, 13.6917,  
0.6080

 74.6746, 46.3738,  
9.2770


 18.3451, 7.9065,  
0.0000


 97.6203, 63.6581,  
15.8674


 11.2992, 4.0352,  
0.0000


 124.8420, 84.7782,  
25.0127

 6.3372, 1.6933,  
0.0000

 156.7051,  
110.1184, 37.1315

 3.0938, 0.4193,  
0.0000

 193.5750,  
140.0633, 52.6422

 1.2036, 0.0000,  
0.0000

 235.8169,


 0.1092, 0.0000,


174.9970, 71.9635


0.0000


 283.7964,  
215.3041, 95.5139


 0.0000, 0.0000,  
0.0000


 40.1499, 21.7750,  
2.0869


 40.1499, 21.7750,  
2.0869


 40.1502, 21.7762,  
2.0871

 41.2218, 23.6384,  
3.3099

 42.9586, 26.4715,  
5.8633

 45.4767, 30.3969,  
10.1275

 48.8589, 35.5129,  
16.3369

 53.1770, 41.9067,  
24.6891

■ 58.4948, 49.6569,  
35.3571

■ 64.8707, 58.8361,  
48.4964

■ 72.3584, 69.5114,  
64.2486

■ 81.0079, 81.7459,  
82.7451

# Harmonies

## Analogous

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



48.1550, 21.7750, 13.4679



40.1499, 21.7750, 2.0869



27.7753, 21.7750, 0.0000

# Triad

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



40.1499, 21.7750, 2.0869



6.6259, 21.7750, 9.7023



25.2636, 21.7750, 141.2307

# Complementary

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



40.1499, 21.7750, 2.0869



40.5446, 53.4808, 98.6278

# 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.



14.9358, 21.7750, 135.9275



40.1499, 21.7750, 2.0869



6.3624, 21.7750, 38.1501

# Square

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



40.1499, 21.7750, 2.0869



9.7437, 21.7750, 1.3221



8.8302, 21.7750, 89.1767



37.7731, 21.7750, 100.4187



# Rectangle

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



40.1499, 21.7750, 2.0869



20.0071, 21.7750, 0.0000



8.8302, 21.7750, 89.1767



21.4016, 21.7750, 145.3578

# Sweetspot

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



40.1504, 21.7764, 2.0872



67.8351, 61.5123, 50.6809



51.3710, 25.1027, 64.7562



13.8876, 12.2592, 9.5374



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.



40.1504, 21.7764, 2.0872



41.9921, 22.7641, 2.1807



52.4328, 46.3413, 6.1814



17.4633, 17.6625, 17.9512



21.3624, 11.6815, 1.1288



2.0405, 1.2058, 0.1252

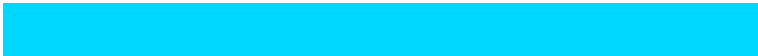


# Inverse Universe

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



40.5446, 53.4808, 98.6278



42.4014, 55.9228, 103.1671



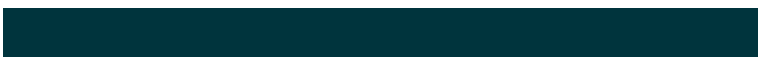
20.7042, 13.8001, 92.0143



17.5215, 19.1199, 22.1523



21.5936, 28.5428, 52.3448



2.0600, 2.7638, 4.8681



# Previews

## White Background



This preview shows how the XYZ color 40.1499, 21.7750, 2.0869 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 40.1499, 21.7750, 2.0869 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 × Fail

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

**XYZ 40.1499, 21.7750, 2.0869**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1499, 21.7750, 2.0869.



This preview shows how white text looks on a background with the XYZ color 40.1499, 21.7750,



# 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

40.1499, 21.7750, 2.0869

### Protanopia

19.7746, 21.8192, 4.4656

### Deuteranopia

22.1872, 21.9524, 3.0679



## Tritanopia

40.3746, 21.7626, 3.5860

# Trichromacy



## Original Color

40.1499, 21.7750, 2.0869

## Protanomaly

23.8376, 18.4835, 2.9731

## Deuteranomaly

26.3328, 19.2564, 2.3290

## Tritanomaly

40.2623, 21.7681, 2.8387

# Monochromacy



## Original Color

40.1499, 21.7750, 2.0869

## Achromatopsia

11.6093, 12.2139, 13.3009

## Achromatomaly

16.6602, 12.4279, 6.0782

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1499, 21.7750, 2.0869 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(250, 39, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 39, 0)  
}
```

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(250, 39, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 39, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1499, 21.7750, 2.0869 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(250, 39, 0) }
```



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

```
.border{ border-color:rgb(250, 39, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 39, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 39, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 39, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 39, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 40.1499, 21.7750, 2.0869 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 39, 0) }
```

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

```
.background{ background-color: rgb(250, 39,  
0) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**