

# Converting Colors

XYZ(41.9748, 22.9298, 2.7978)

Have a look what the booklet for  
XYZ(41.9748, 22.9298, 2.7978)  
contains.

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# Color

**XYZ(41.8461, 22.8423,  
2.7757)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE2B12
RGB	254, 43, 18
RGB Percent	100%, 17%, 7%
CMY	0.0039, 0.8313, 0.9294
CMYK	0.00, 0.83, 0.93, 0.00
HSL	6°, 99%, 53%
HSV	6°, 93%, 100%
XYZ	41.8461, 22.8423, 2.7757
YIQ	103.2390, 133.7810, 36.9570

# Conversions

## Conversions Part 2

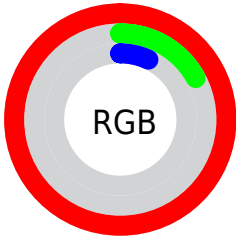
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	254, 46, 18
Decimal	16657170
CIE <sub>Lab</sub>	54.91, 74.73, 63.40
CIE <sub>LCh</sub>	55, 97.996, 40.310
Yxy	22.8423, 0.6203, 0.3386
Android (android.graphics.Color)	4294847250 (0xFFFE2B12)
YUV	103.2390, -42.0228, 132.2174
Hunter-Lab	47.7936, 72.6483, 30.0122

# Details

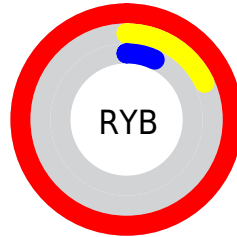
The XYZ color **41.8461, 22.8423, 2.7757** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **46.1516, 63.3101, 103.5527**, and the grayscale version is **13.0414, 13.7205, 14.9417**.

A 20% lighter version of the original color is **48.0299, 33.0711, 9.6463**, and **20.4935, 10.5648, 0.9591** is the 20% darker color. If you saturate the color by 10%, you get **41.2630, 21.8513, 2.0429**, and if you desaturate by 10%, it is **43.2486, 25.1129, 4.8920**.

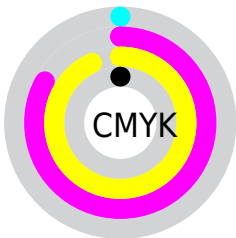
# Distribution



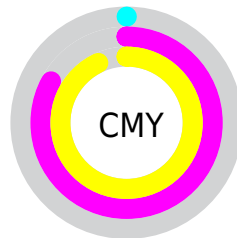
- Red (100%)
- Green (17%)
- Blue (7%)



- Red (100%)
- Yellow (18%)
- Blue (7%)



- Cyan (0%)
- Magenta (83%)
- Yellow (93%)
- Black (0%)




- Cyan (0%)
- Magenta (83%)
- Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8461, 22.8423, 2.7757 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 41.8461, 22.8423, 2.7757 by changing the saturation by 10% instead.




 41.8461, 22.8423,  
2.7757


 41.8461, 22.8423,  
2.7757


344.8471,  
266.9140, 133.4505


 29.1714, 14.4771,  
0.9813


 77.2333, 48.1343,  
11.0698

 19.3554, 8.4532,  
0.0000


 100.6764, 65.8298,  
18.4065

 12.0329, 4.3863,  
0.0000


 128.4398, 87.4043,  
28.4277

 6.8385, 1.8919,  
0.0000

 160.8887,  
113.2420, 41.5520

 3.4067, 0.5435,  
0.0000

 198.3886,  
143.7275, 58.1979


 1.3723, 0.0000,  
0.0000

 241.3047,


 0.2364, 0.0000,


179.2450, 78.7839


0.0000


 290.0024,  
220.1791, 103.7286


 0.0000, 0.0000,  
0.0000


 41.8461, 22.8423,  
2.7757


 41.8461, 22.8423,  
2.7757


 41.2630, 21.8513,  
2.0429

 43.2486, 25.1129,  
4.8920

 45.4663, 28.5492,  
8.7120

 48.6022, 33.2826,  
14.4994

 52.7430, 39.4258,  
22.4725

 57.9657, 47.0793,  
32.8202

■ 64.3393, 56.3341,  
45.7115

■ 71.9274, 67.2743,  
61.2995

■ 80.7886, 79.9780,  
79.7256

■ 90.9779, 94.5182,  
101.1210

# Harmonies

## Analogous

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



49.4193, 22.8423, 15.6296



41.8461, 22.8423, 2.7757



29.5346, 22.8423, 0.1682

# Triad

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



41.8461, 22.8423, 2.7757



7.3872, 22.8423, 9.6726



25.6670, 22.8423, 142.3145

# Complementary

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



41.8461, 22.8423, 2.7757



46.1516, 63.3101, 103.5527

# 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.



15.4075, 22.8423, 134.3689



41.8461, 22.8423, 2.7757



6.9647, 22.8423, 37.1842

# Square

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



41.8461, 22.8423, 2.7757



10.8097, 22.8423, 1.4614



9.3626, 22.8423, 87.0926



38.2164, 22.8423, 104.0335



# Rectangle

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



41.8461, 22.8423, 2.7757



21.5982, 22.8423, 0.0000



9.3626, 22.8423, 87.0926



21.8241, 22.8423, 145.4233

# Sweetspot

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



41.8466, 22.8437, 2.7760



68.5178, 62.0399, 53.4915



55.4281, 27.2389, 77.4934



13.9845, 12.2956, 10.0546



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.



41.8466, 22.8437, 2.7760



41.6328, 22.0456, 2.0609



53.4834, 46.1173, 6.6550



18.1643, 18.2968, 18.7186



21.8039, 11.6190, 1.0935



2.1715, 1.2284, 0.1226

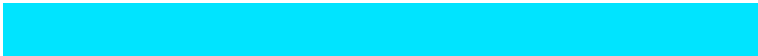


# Inverse Universe

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



46.1516, 63.3101, 103.5527



45.7832, 62.6865, 104.2944



23.9771, 18.9611, 96.1612



18.3807, 20.1329, 23.1672



23.9892, 32.8880, 54.5182



2.3810, 3.2927, 5.3233



# Previews

## White Background



This preview shows how the XYZ color 41.8461, 22.8423, 2.7757 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

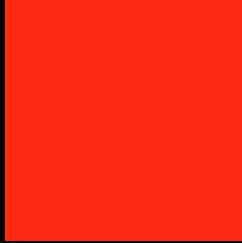
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8461, 22.8423, 2.7757 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 41.8461, 22.8423, 2.7757**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8461, 22.8423, 2.7757.



This preview shows how white text looks on a background with the XYZ color 41.8461, 22.8423,

2.7757.

# 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

41.8461, 22.8423, 2.7757

### Protanopia

20.8302, 22.9449, 5.2504

### Deuteranopia

23.0595, 22.7742, 3.1805



## Tritanopia

42.0322, 22.8032, 4.1056

# Trichromacy



## Original Color

41.8461, 22.8423, 2.7757

## Protanomaly

25.2980, 19.7781, 3.7805

## Deuteranomaly

27.4193, 20.2055, 2.6559

## Tritanomaly

41.9483, 22.8257, 3.4912

# Monochromacy



## Original Color

41.8461, 22.8423, 2.7757

## Achromatopsia

12.8919, 13.5633, 14.7705

## Achromatomaly

18.2127, 13.6218, 7.8003

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8461, 22.8423, 2.7757 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(254, 43, 18)` looks like.

```
.text, #text, p{  
    color:rgb(254, 43, 18)  
}
```

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(254, 43, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 43, 18) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8461, 22.8423, 2.7757 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(254, 43, 18) }
```



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

```
.border{ border-color:rgb(254, 43, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 43, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 43, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 43, 18);  
box-shadow:4px 4px 4px 4px rgb(254, 43,  
18) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8461, 22.8423, 2.7757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 43, 18) }
```

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

```
.background{ background-color: rgb(254, 43,  
18) }
```

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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