

# Converting Colors

XYZ(42.2394, 21.9746, 7.7681)

Have a look what the booklet for  
XYZ(42.2394, 21.9746, 7.7681)  
contains.

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# Color

**XYZ(42.1948, 21.9456,  
7.8064)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE1246
RGB	254, 18, 70
RGB Percent	100%, 7%, 27%
CMY	0.0039, 0.9292, 0.7255
CMYK	0.00, 0.93, 0.72, 0.00
HSL	347°, 99%, 53%
HSV	347°, 93%, 100%
XYZ	42.1948, 21.9456, 7.8064
YIQ	94.4920, 123.9640, 66.2040

# Conversions

## Conversions Part 2

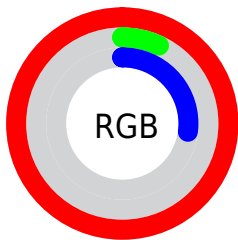
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	254, 18, 70
Decimal	16650822
CIE <sub>Lab</sub>	53.97, 79.83, 37.55
CIE <sub>LCh</sub>	54, 88.225, 25.190
Yxy	21.9456, 0.5865, 0.3050
Android (android.graphics.Color)	4294840902 (0xFFFE1246)
YUV	94.4920, -12.0746, 139.8885
Hunter-Lab	46.8461, 78.7961, 22.9123

# Details

The XYZ color **42.1948, 21.9456, 7.8064** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **46.3578, 75.2785, 67.9918**, and the grayscale version is **10.7689, 11.3298, 12.3381**.

A 20% lighter version of the original color is **49.1637, 31.8754, 20.7009**, and **20.9369, 10.7705, 2.0123** is the 20% darker color. If you saturate the color by 10%, you get **41.5848, 21.3555, 5.6624**, and if you desaturate by 10%, it is **43.5902, 23.5659, 11.8812**.

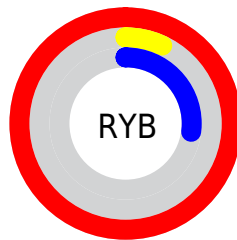
# Distribution



Red (100%)

Green (7%)

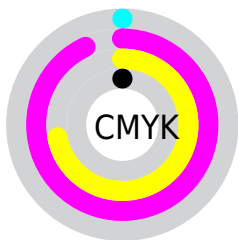
Blue (27%)



Red (100%)

Yellow (7%)

Blue (27%)

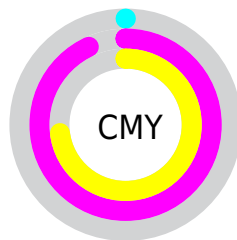


Cyan (0%)

Magenta (93%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (93%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1948, 21.9456, 7.8064 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 42.1948, 21.9456, 7.8064 by changing the saturation by 10% instead.




 42.1948, 21.9456,  
7.8064


 42.1948, 21.9456,  
7.8064


346.2677,  
262.2621, 184.0831


 29.4456, 13.8169,  
3.8853


 77.7577, 46.6561,  
22.1179


 19.5642, 7.9934,  
1.5626


 101.3021, 64.0067,  
33.3454


 12.1851, 4.0908,  
0.2640


 129.1756, 85.2000,  
47.8455

 6.9429, 1.7245,  
0.0000

 161.7437,  
110.6205, 66.0366

 3.4724, 0.4394,  
0.0000

 199.3715,  
140.6526, 88.3374

 1.4082, 0.0000,  
0.0000

242.4246,

 0.2621, 0.0000,

175.6806, 115.1664

0.0000

291.2682,  
216.0890, 146.9421

■ 0.0000, 0.0000,  
0.0000

■ 42.1948, 21.9456,  
7.8064

■ 42.1948, 21.9456,  
7.8064

■ 41.5848, 21.3555,  
5.6624

■ 43.5902, 23.5659,  
11.8812

■ 45.7849, 26.4254,  
17.3296

■ 48.8879, 30.7161,  
24.2684

■ 52.9898, 36.5958,  
32.8006

■ 58.1699, 44.2014,  
43.0198

64.4994, 53.6548,  
55.0119

72.0432, 65.0670,  
68.8570

80.8613, 78.5402,  
84.6302

91.0095, 94.1693,  
102.4021

# Harmonies

## Analogous

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



44.9334, 21.9456, 28.5657



42.1948, 21.9456, 7.8064



33.1504, 21.9456, 1.5240

# Triad

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



42.1948, 21.9456, 7.8064



9.1498, 21.9456, 4.7233



19.3612, 21.9456, 123.4538

# Complementary

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



42.1948, 21.9456, 7.8064



46.3578, 75.2785, 67.9918

# 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.



12.0569, 21.9456, 97.9580



42.1948, 21.9456, 7.8064



7.4183, 21.9456, 19.7634

# Square

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



42.1948, 21.9456, 7.8064



13.9972, 21.9456, 0.9240



8.2920, 21.9456, 53.8748



29.6602, 21.9456, 109.6540



# Rectangle

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



42.1948, 21.9456, 7.8064



25.8962, 21.9456, 0.5423



8.2920, 21.9456, 53.8748



16.5208, 21.9456, 118.8590

# Sweetspot

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



42.1953, 21.9470, 7.8067



68.6437, 59.5135, 62.0981



41.6445, 19.7242, 95.3774



14.0158, 11.7172, 12.0410



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.



42.1953, 21.9470, 7.8067



41.9574, 21.5470, 5.7080



43.9223, 26.9944, 3.4697



18.1731, 18.0525, 19.5286



21.9687, 11.2768, 3.2197



2.1776, 1.1134, 0.5169



# Inverse Universe

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



42.1953, 21.9470, 7.8067



41.9574, 21.5470, 5.7080



36.7875, 44.5805, 100.4312



18.1731, 18.0525, 19.5286



21.9687, 11.2768, 3.2197



2.1776, 1.1134, 0.5169



# Previews

## White Background



This preview shows how the XYZ color 42.1948, 21.9456, 7.8064 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

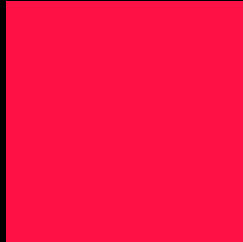
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.1948, 21.9456, 7.8064 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 42.1948, 21.9456, 7.8064**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.1948, 21.9456, 7.8064.



This preview shows how white text looks on a background with the XYZ color 42.1948, 21.9456,



# 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

42.1948, 21.9456, 7.8064

### Protanopia

20.9626, 22.3680, 16.3093

### Deuteranopia

22.5194, 22.0384, 6.9378



## Tritanopia

41.2224, 21.9948, 3.1097

# Trichromacy



## Original Color

42.1948, 21.9456, 7.8064

## Protanomaly

24.3265, 17.6208, 12.2442

## Deuteranomaly

26.6237, 18.4469, 6.7148

## Tritanomaly

41.3360, 21.8409, 4.3226

# Monochromacy



## Original Color

42.1948, 21.9456, 7.8064

## Achromatopsia

10.8771, 11.4435, 12.4620

## Achromatomaly

16.8237, 11.4585, 10.1291

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1948, 21.9456, 7.8064 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, 18, 70)` looks like.

```
.text, #text, p{  
    color:rgb(254, 18, 70)  
}
```

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, 18, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 18, 70) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1948, 21.9456, 7.8064 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, 18, 70) }
```



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

```
.border{ border-color:rgb(254, 18, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 18, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 18, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 18, 70);  
box-shadow:4px 4px 4px 4px rgb(254, 18,  
70) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.1948, 21.9456, 7.8064 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 18, 70) }
```

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

```
.background{ background-color: rgb(254, 18,  
70) }
```

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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