

# Converting Colors

XYZ(41.7167, 24.2222, 2.9789)

Have a look what the booklet for  
XYZ(41.7167, 24.2222, 2.9789)  
contains.

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# Color

**XYZ(41.7106, 24.2134,  
2.9655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB4010
RGB	251, 64, 16
RGB Percent	98%, 25%, 6%
CMY	0.0157, 0.7490, 0.9372
CMYK	0.00, 0.74, 0.94, 0.02
HSL	12°, 97%, 52%
HSV	12°, 94%, 98%
XYZ	41.7106, 24.2134, 2.9655
YIQ	114.4410, 126.8600, 24.7160

# Conversions

## Conversions Part 2

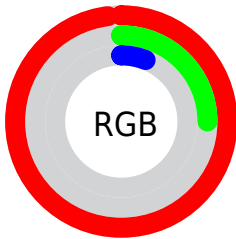
<b>Format</b>	<b>Color</b>
<b>RYB</b>	251, 76, 16
Decimal	16465936
CIELab	56.30, 68.32, 64.48
CIElCh	56, 93.945, 43.345
Yxy	24.2134, 0.6055, 0.3515
Android (android.graphics.Color)	4294656016 (0xFFFB4010)
YUV	114.4410, -48.5314, 119.7622
Hunter-Lab	49.2071, 65.1938, 30.8718

# Details

The XYZ color **41.7106, 24.2134, 2.9655** 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 **38.9794, 49.7815, 98.8205**, and the grayscale version is **16.2435, 17.0894, 18.6104**.

A 20% lighter version of the original color is **49.7109, 36.3822, 10.3636**, and **20.0076, 10.3143, 0.9363** is the 20% darker color. If you saturate the color by 10%, you get **40.9795, 22.9013, 2.2605**, and if you desaturate by 10%, it is **43.3546, 27.0084, 5.0354**.

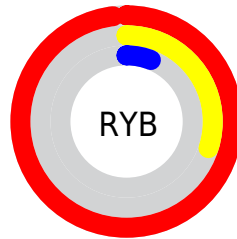
# Distribution



Red (98%)

Green (25%)

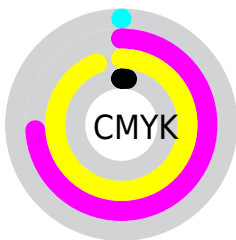
Blue (6%)



Red (98%)

Yellow (30%)

Blue (6%)

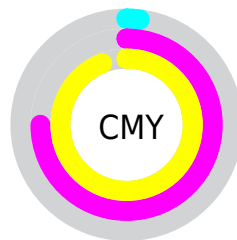


Cyan (0%)

Magenta (74%)

Yellow (94%)

Black (2%)



Cyan (2%)

Magenta (75%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7106, 24.2134, 2.9655 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 41.7106, 24.2134, 2.9655 by changing the saturation by 10% instead.





 41.7106, 24.2134,  
2.9655


 41.7106, 24.2134,  
2.9655


344.2939,  
273.8976, 135.9200


 29.0649, 15.4920,  
1.0770


 77.0294, 50.3782,  
11.5432


 19.2744, 9.1654,  
0.0000


 100.4331, 68.5904,  
19.0695

 11.9739, 4.8492,  
0.0000


 128.1535, 90.7350,  
29.3122

 6.7980, 2.1591,  
0.0000

 160.5561,  
117.1964, 42.6898

 3.3813, 0.6975,  
0.0000

 198.0060,  
148.3589, 59.6208


 1.3585, 0.0000,  
0.0000

 240.8687,


 0.2263, 0.0000,


184.6070, 80.5238


0.0000


 289.5096,  
226.3251, 105.8174


 0.0000, 0.0000,  
0.0000


 41.7106, 24.2134,  
2.9655


 41.7106, 24.2134,  
2.9655


 40.9795, 22.9013,  
2.2605

 43.3546, 27.0084,  
5.0354

 45.7188, 30.7970,  
8.7204

 48.8836, 35.6673,  
14.2742

 52.9176, 41.6961,  
21.9052

 57.8814, 48.9528,  
31.7940

■ 63.8301, 57.5012,  
44.1015

■ 70.8143, 67.4006,  
58.9738

■ 78.8811, 78.7065,  
76.5454

■ 88.0745, 91.4716,  
96.9413

# Harmonies

## Analogous

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



49.7856, 24.2134, 14.8607



41.7106, 24.2134, 2.9655



29.5095, 24.2134, 0.4941

# Triad

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



41.7106, 24.2134, 2.9655



8.2787, 24.2134, 12.7048



28.1600, 24.2134, 137.2842

# Complementary

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



41.7106, 24.2134, 2.9655



38.9794, 49.7815, 98.8205

# 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.



17.5495, 24.2134, 134.6243



41.7106, 24.2134, 2.9655



8.1223, 24.2134, 42.6541

# Square

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



41.7106, 24.2134, 2.9655



11.4804, 24.2134, 2.4336



10.9540, 24.2134, 92.0904



40.4596, 24.2134, 97.8099



# Rectangle

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



41.7106, 24.2134, 2.9655



21.8210, 24.2134, 0.2297



10.9540, 24.2134, 92.0904



24.2500, 24.2134, 141.8645

# Sweetspot

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



41.7111, 24.2149, 2.9659



70.0868, 65.1778, 54.0145



50.8678, 25.2394, 59.3174



14.3481, 13.0228, 10.1758



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.



41.7111, 24.2149, 2.9659



42.4724, 23.7247, 2.3408



56.2994, 53.3914, 7.8286



17.5318, 17.7995, 17.9740



21.6228, 12.2023, 1.2156

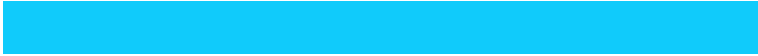


2.0745, 1.2738, 0.1365



# Inverse Universe

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



38.9794, 49.7815, 98.8205



39.3828, 49.8857, 102.1609



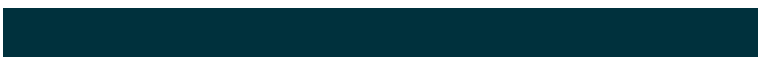
20.9942, 13.8112, 92.8254



17.4470, 18.9709, 22.1275



20.0827, 25.5209, 51.8411



1.9334, 2.5104, 4.8258



# Previews

## White Background



This preview shows how the XYZ color 41.7106, 24.2134, 2.9655 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 41.7106, 24.2134, 2.9655 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 41.7106, 24.2134, 2.9655**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7106, 24.2134, 2.9655.



This preview shows how white text looks on a background with the XYZ color 41.7106, 24.2134,



# 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

41.7106, 24.2134, 2.9655

### Protanopia

22.0418, 24.3992, 5.0612

### Deuteranopia

24.6448, 24.3584, 3.4027



## Tritanopia

42.6302, 24.2750, 6.9961

# Trichromacy



## Original Color

41.7106, 24.2134, 2.9655

## Protanomaly

26.5128, 21.9224, 3.8710

## Deuteranomaly

28.9039, 22.3957, 2.9717

## Tritanomaly

42.2873, 24.2224, 4.9292

# Monochromacy



## Original Color

41.7106, 24.2134, 2.9655

## Achromatopsia

15.9940, 16.8269, 18.3245

## Achromatomaly

20.8679, 16.8083, 9.3522

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7106, 24.2134, 2.9655 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(251, 64, 16)` looks like.

```
.text, #text, p{  
    color:rgb(251, 64, 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(251, 64, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 64, 16) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7106, 24.2134, 2.9655 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(251, 64, 16) }
```



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

```
.border{ border-color:rgb(251, 64, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 64, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 64, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 64, 16);  
box-shadow:4px 4px 4px 4px rgb(251, 64,  
16) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7106, 24.2134, 2.9655 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 64, 16) }
```

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

```
.background{ background-color: rgb(251, 64,  
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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