

# Converting Colors

XYZ(46.5307, 32.6165, 6.0396)

Have a look what the booklet for  
XYZ(46.5307, 32.6165, 6.0396)  
contains.

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# Color

**XYZ(46.3570, 32.4510,  
6.0109)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC702A
RGB	252, 112, 42
RGB Percent	99%, 44%, 16%
CMY	0.0118, 0.5607, 0.8353
CMYK	0.00, 0.56, 0.83, 0.01
HSL	20°, 97%, 58%
HSV	20°, 83%, 99%
XYZ	46.3570, 32.4510, 6.0109
YIQ	145.8800, 105.9100, 7.9100

# Conversions

## Conversions Part 2

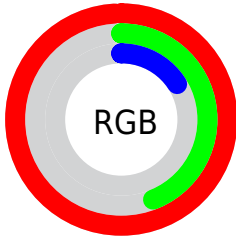
Format	Color
R <sub>Y</sub> B	252, 147, 42
Decimal	16543786
CIE Lab	63.71, 49.98, 61.28
CIE LCh	64, 79.082, 50.800
Yxy	32.4510, 0.5465, 0.3826
Android (android.graphics.Color)	4294733866 (0xFFFC702A)
YUV	145.8800, -51.2128, 93.0672
Hunter-Lab	56.9658, 45.5677, 33.6199

# Details

The XYZ color **46.3570, 32.4510, 6.0109** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **35.2520, 40.9734, 98.1454**, and the grayscale version is **27.4466, 28.8759, 31.4459**.

A 20% lighter version of the original color is **57.0791, 49.7056, 17.1754**, and **22.2521, 13.7175, 1.4749** is the 20% darker color. If you saturate the color by 10%, you get **44.3554, 28.9575, 3.7738**, and if you desaturate by 10%, it is **48.9888, 36.7530, 9.8542**.

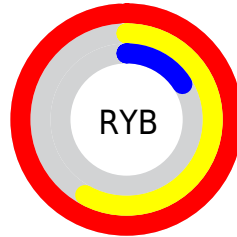
# Distribution



Red (99%)

Green (44%)

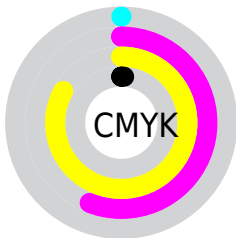
Blue (16%)



Red (99%)

Yellow (58%)

Blue (16%)

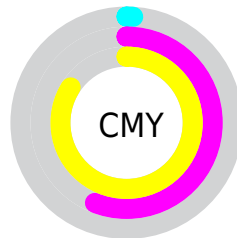


Cyan (0%)

Magenta (56%)

Yellow (83%)

Black (1%)



Cyan (1%)

Magenta (56%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3570, 32.4510, 6.0109 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 46.3570, 32.4510, 6.0109 by changing the saturation by 10% instead.





 46.3570, 32.4510,  
6.0109

 46.3570, 32.4510,  
6.0109


362.9340,  
313.1686, 168.4779

 32.7334, 21.7062,  
2.7828


 83.9776, 63.5174,  
18.4316


 22.0806, 13.6412,  
0.9848


 108.7054, 84.6079,  
28.4612


 14.0331, 7.8715,  
0.0000


 137.8653,  
109.9157, 41.5952

 8.2255, 4.0129,  
0.0000

 171.8227,  
139.8252, 58.2519

 4.2926, 1.6808,  
0.0000

 210.9429,  
174.7209, 78.8500

 1.8690, 0.4112,  
0.0000

 255.5912,

 0.5587, 0.0000,

214.9871, 103.8080

0.0000

306.1332,  
261.0082, 133.5445

■ 0.0000, 0.0000,  
0.0000

■ 46.3570, 32.4510,  
6.0109

■ 46.3570, 32.4510,  
6.0109

■ 44.3554, 28.9575,  
3.7738

■ 48.9888, 36.7530,  
9.8542

■ 43.3156, 27.0373,  
2.9357

■ 52.3124, 41.9119,  
15.5504

■ 56.3830, 47.9779,  
23.3049

■ 61.2488, 54.9950,  
33.2951

■ 66.9536, 63.0043,  
45.6791

73.5376, 72.0442,  
60.6005

81.0384, 82.1509,  
78.1914

89.4913, 93.3588,  
98.5748

93.9546, 99.4353,  
108.8487

# Harmonies

## Analogous

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



55.3435, 32.4510, 17.7986



46.3570, 32.4510, 6.0109



34.3755, 32.4510, 2.8486

# Triad

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



46.3570, 32.4510, 6.0109



14.2353, 32.4510, 26.4517



39.0414, 32.4510, 128.5205

# Complementary

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



46.3570, 32.4510, 6.0109



35.2520, 40.9734, 98.1454

# 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.



27.5625, 32.4510, 136.2156



46.3570, 32.4510, 6.0109



14.9111, 32.4510, 61.7199

# Square

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



46.3570, 32.4510, 6.0109



17.1083, 32.4510, 9.1041



19.2465, 32.4510, 106.8090



50.4665, 32.4510, 89.6016



# Rectangle

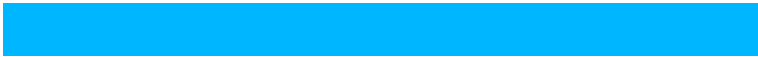
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.3570, 32.4510, 6.0109



27.0226, 32.4510, 2.9042



19.2465, 32.4510, 106.8090



35.0090, 32.4510, 135.4896

# Sweetspot

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



46.3577, 32.4528, 6.0114



74.3408, 72.3711, 59.4854



49.4162, 25.7288, 46.6178



15.3923, 14.7790, 11.5477



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.



46.3577, 32.4528, 6.0114



44.4892, 27.7584, 3.0131



65.3753, 70.4880, 12.3506



17.7173, 18.1705, 18.0359



22.6843, 14.3252, 1.5694



2.1941, 1.5131, 0.1764



# Inverse Universe

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



35.2520, 40.9734, 98.1454



32.4230, 35.9660, 99.8410



21.1795, 12.8286, 93.4546



17.2498, 18.5765, 22.0618



16.5872, 18.5300, 50.6760



1.6337, 1.9110, 4.7259



# Previews

## White Background



This preview shows how the XYZ color 46.3570, 32.4510, 6.0109 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 46.3570, 32.4510, 6.0109 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 46.3570, 32.4510, 6.0109**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3570, 32.4510, 6.0109.



This preview shows how white text looks on a background with the XYZ color 46.3570, 32.4510,



# 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

46.3570, 32.4510, 6.0109

### Protanopia

29.5975, 32.5840, 8.0975

### Deuteranopia

33.1372, 32.5487, 5.5729



## Tritanopia

49.2162, 32.5330, 19.0148

# Trichromacy



## Original Color

46.3570, 32.4510, 6.0109

## Protanomaly

34.1441, 31.2435, 7.1367

## Deuteranomaly

37.1047, 31.7534, 5.5399

## Tritanomaly

47.9559, 32.4841, 12.7593

# Monochromacy



## Original Color

46.3570, 32.4510, 6.0109

## Achromatopsia

27.3213, 28.7441, 31.3023

## Achromatomaly

31.2395, 28.4472, 18.0317

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3570, 32.4510, 6.0109 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(252, 112, 42)` looks like.

```
.text, #text, p{  
    color:rgb(252, 112, 42)  
}
```

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(252, 112, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 112, 42) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3570, 32.4510, 6.0109 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(252, 112, 42) }
```



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

```
.border{ border-color:rgb(252, 112, 42) }
```

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

Here you see how a box with a 4 pixel rgb(252, 112, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 112, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 112, 42);  
box-shadow:4px 4px 4px 4px rgb(252, 112,  
42) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3570, 32.4510, 6.0109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 112, 42) }
```

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

```
.background{ background-color: rgb(252,  
112, 42) }
```

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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