

# Converting Colors

XYZ(42.6848, 23.9750, 2.9495)

Have a look what the booklet for  
XYZ(42.6848, 23.9750, 2.9495)  
contains.

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# Color

**XYZ(42.6683, 23.9420,  
2.9447)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF3612
RGB	255, 54, 18
RGB Percent	100%, 21%, 7%
CMY	0.0000, 0.7882, 0.9294
CMYK	0.00, 0.79, 0.93, 0.00
HSL	9°, 100%, 54%
HSV	9°, 93%, 100%
XYZ	42.6683, 23.9420, 2.9447
YIQ	109.9950, 131.3520, 31.4160

# Conversions

## Conversions Part 2

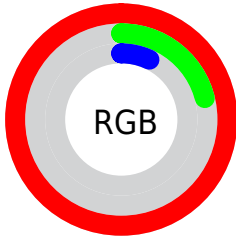
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 60, 18
Decimal	16725522
CIE <sub>Lab</sub>	56.03, 72.37, 64.16
CIE <sub>LCh</sub>	56, 96.717, 41.555
Yxy	23.9420, 0.6134, 0.3442
Android (android.graphics.Color)	4294915602 (0xFFFF3612)
YUV	109.9950, -45.3535, 127.1694
Hunter-Lab	48.9306, 70.0266, 30.6833

# Details

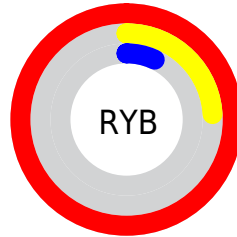
The XYZ color **42.6683, 23.9420, 2.9447** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **43.6266, 58.0030, 103.5032**, and the grayscale version is **14.9216, 15.6986, 17.0958**.

A 20% lighter version of the original color is **48.8558, 34.6718, 10.0786**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.9570, 22.6945, 2.1691**, and if you desaturate by 10%, it is **44.2448, 26.5577, 5.1283**.

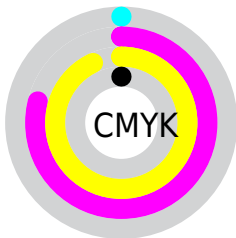
# Distribution



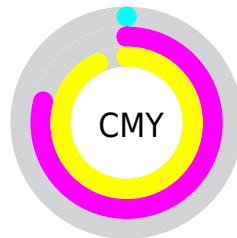
- Red (100%)
- Green (21%)
- Blue (7%)



- Red (100%)
- Yellow (24%)
- Blue (7%)



- Cyan (0%)
- Magenta (79%)
- Yellow (93%)
- Black (0%)




- Cyan (0%)
- Magenta (79%)
- Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6683, 23.9420, 2.9447 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 42.6683, 23.9420, 2.9447 by changing the saturation by 10% instead.




 42.6683, 23.9420,  
2.9447


 42.6683, 23.9420,  
2.9447


348.1906,  
272.5271, 135.6532


 29.8183, 15.2906,  
1.0665


 78.4689, 49.9355,  
11.4917


 19.8481, 9.0236,  
0.0000


 102.1503, 68.0465,  
18.9975

 12.3923, 4.7566,  
0.0000

 130.1728, 90.0794,  
29.2163

 7.0855, 2.1052,  
0.0000

 162.9019,  
116.4186, 42.5665

 3.5625, 0.6675,  
0.0000

 200.7028,  
147.4486, 59.4668


 1.4577, 0.0000,  
0.0000

 243.9410,


 0.2968, 0.0000,


183.5538, 80.3356


0.0000


 292.9818,  
225.1185, 105.5916


 0.0000, 0.0000,  
0.0000


 42.6683, 23.9420,  
2.9447


 42.6683, 23.9420,  
2.9447


 41.9570, 22.6945,  
2.1691

 44.2448, 26.5577,  
5.1283

 46.6133, 30.2884,  
9.0201

 49.8666, 35.2450,  
14.8830

 54.0837, 41.5236,  
22.9343

 59.3346, 49.2103,  
33.3628

65.6825, 58.3843,  
46.3365

73.1857, 69.1184,  
62.0085

81.8982, 81.4809,  
80.5194

91.8705, 95.5359,  
102.0003

# Harmonies

## Analogous

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



50.5976, 23.9420, 15.6729



42.6683, 23.9420, 2.9447



30.1697, 23.9420, 0.3394

# Triad

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



42.6683, 23.9420, 2.9447



7.9565, 23.9420, 11.1569



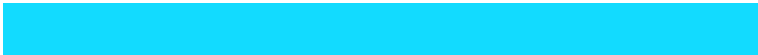
27.2874, 23.9420, 142.8491

# Complementary

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



42.6683, 23.9420, 2.9447



43.6266, 58.0030, 103.5032

# 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.



16.6690, 23.9420, 137.0416



42.6683, 23.9420, 2.9447



7.6327, 23.9420, 40.2711

# Square

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



42.6683, 23.9420, 2.9447



11.3634, 23.9420, 1.8933



10.2635, 23.9420, 90.9355



39.9790, 23.9420, 103.3666



# Rectangle

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



42.6683, 23.9420, 2.9447



22.1838, 23.9420, 0.0000



10.2635, 23.9420, 90.9355



23.3382, 23.9420, 146.6494

# Sweetspot

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



42.6688, 23.9435, 2.9450



69.2420, 63.4883, 53.7329



54.3014, 26.8307, 69.6453



14.1519, 12.6304, 10.1104



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.



42.6688, 23.9435, 2.9450



41.9574, 22.6948, 2.1691



56.1109, 50.8276, 7.4257



18.2321, 18.4325, 18.7412



21.9897, 11.9907, 1.1554

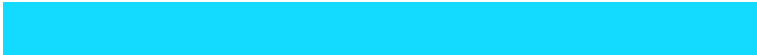


2.2033, 1.2919, 0.1332

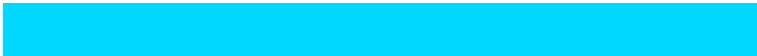


# Inverse Universe

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



43.6266, 58.0030, 103.5032



42.6696, 56.4593, 103.2565



22.9483, 16.6465, 96.6104



18.3059, 19.9833, 23.1423



22.3847, 29.6790, 53.9834



2.2404, 3.0114, 5.2765



# Previews

## White Background



This preview shows how the XYZ color 42.6683, 23.9420, 2.9447 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 42.6683, 23.9420, 2.9447 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 42.6683, 23.9420, 2.9447**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6683, 23.9420, 2.9447.



This preview shows how white text looks on a background with the XYZ color 42.6683, 23.9420,



# 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

42.6683, 23.9420, 2.9447

### Protanopia

21.7763, 24.0472, 5.3276

### Deuteranopia

24.2967, 23.9844, 3.3489



## Tritanopia

43.0878, 23.9639, 5.6033

# Trichromacy



## Original Color

42.6683, 23.9420, 2.9447

## Protanomaly

26.3876, 21.2258, 4.0025

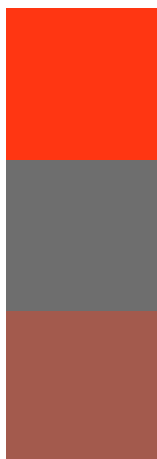
## Deuteranomaly

28.7794, 21.7402, 2.8804

## Tritanomaly

42.8961, 23.9594, 4.3712

# Monochromacy



## Original Color

42.6683, 23.9420, 2.9447

## Achromatopsia

14.8208, 15.5926, 16.9804

## Achromatomaly

20.1000, 15.6347, 8.9796

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6683, 23.9420, 2.9447 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(255, 54, 18)` looks like.

```
.text, #text, p{  
    color:rgb(255, 54, 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(255, 54, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 54, 18) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6683, 23.9420, 2.9447 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(255, 54, 18) }
```



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

```
.border{ border-color:rgb(255, 54, 18) }
```

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

Here you see how a box with a 4 pixel rgb(255, 54, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 54, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 54, 18);  
box-shadow:4px 4px 4px 4px rgb(255, 54,  
18) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6683, 23.9420, 2.9447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 54, 18) }
```

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

```
.background{ background-color: rgb(255, 54,  
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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