

# Converting Colors

XYZ(45.6315, 35.4687, 9.1437)

Have a look what the booklet for  
XYZ(45.6315, 35.4687, 9.1437)  
contains.

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# Color

**XYZ(45.6315, 35.4687,  
9.1437)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2833F
RGB	242, 131, 63
RGB Percent	95%, 51%, 25%
CMY	0.0510, 0.4862, 0.7529
CMYK	0.00, 0.46, 0.74, 0.05
HSL	23°, 87%, 60%
HSV	23°, 74%, 95%
XYZ	45.6315, 35.4687, 9.1437
YIQ	156.4370, 87.9840, 2.3840

# Conversions

## Conversions Part 2

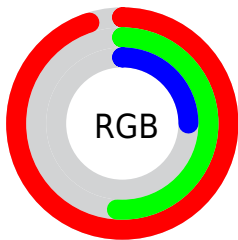
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 173, 63
Decimal	15893311
CIE <sub>Lab</sub>	66.11, 37.58, 53.99
CIE <sub>LCh</sub>	66, 65.782, 55.159
Yxy	35.4687, 0.5056, 0.3930
Android (android.graphics.Color)	4294083391 (0xFFFF2833F)
YUV	156.4370, -46.0644, 75.0388
Hunter-Lab	59.5556, 32.5444, 32.5860

# Details

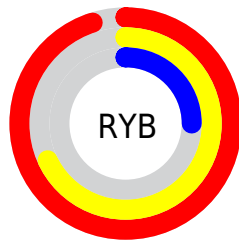
The XYZ color **45.6315, 35.4687, 9.1437** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle washed orange. A complement of this color would be **33.2119, 37.7375, 89.5376**, and the grayscale version is **31.9684, 33.6333, 36.6267**.

A 20% lighter version of the original color is **61.6262, 57.1728, 23.7070**, and **21.6567, 15.3106, 2.0148** is the 20% darker color. If you saturate the color by 10%, you get **43.2263, 31.5134, 5.7067**, and if you desaturate by 10%, it is **48.6272, 40.1304, 14.2431**.

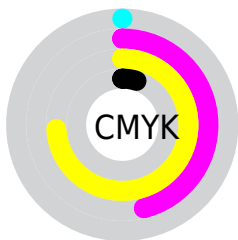
# Distribution



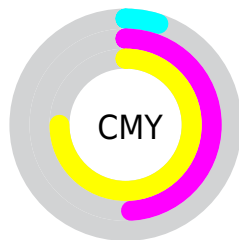
- Red (95%)
- Green (51%)
- Blue (25%)



- Red (95%)
- Yellow (68%)
- Blue (25%)



- Cyan (0%)
- Magenta (46%)
- Yellow (74%)
- Black (5%)



- Cyan (5%)
- Magenta (49%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6315, 35.4687, 9.1437 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 45.6315, 35.4687, 9.1437 by changing the saturation by 10% instead.



45.6315, 35.4687,  
9.1437

45.6315, 35.4687,  
9.1437

360.0660,  
326.6323, 194.7037

32.1585, 24.0241,  
4.7369

82.8985, 68.2112,  
24.7540

21.6387, 15.3515,  
2.0377

107.4232, 90.2780,  
36.7947

13.7068, 9.0665,  
0.5783

136.3625,  
116.6543, 52.2171

7.9974, 4.7846,  
0.0000

170.0818,  
147.7245, 71.4397

4.1451, 2.1214,  
0.0000

208.9465,  
183.8730, 94.8812

1.7845, 0.6766,  
0.0000

253.3218,

0.5083, 0.0000,

225.4842, 122.9599

0.0000

303.5732,  
272.9425, 156.0946

■ 0.0000, 0.0000,  
0.0000

■ 45.6315, 35.4687,  
9.1437

■ 45.6315, 35.4687,  
9.1437

■ 43.2263, 31.5134,  
5.7067

■ 48.6272, 40.1304,  
14.2431

■ 41.3544, 28.2170,  
3.7040


■ 52.2574, 45.5301,  
21.1891


■ 40.4398, 26.5213,  
2.9877


■ 56.5636, 51.7038,  
30.1430


■ 61.5831, 58.6832,  
41.2480

■ 67.3497, 66.4980,  
54.6340

 73.8954, 75.1763,  
70.4204

 81.2497, 84.7448,  
88.7184

 89.1818, 95.1252,  
108.2684

 90.4278, 97.6172,  
108.6837

# Harmonies

## Analogous

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



53.7487, 35.4687, 19.9563



45.6315, 35.4687, 9.1437



35.3233, 35.4687, 5.9805

# Triad

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



45.6315, 35.4687, 9.1437



18.2364, 35.4687, 34.2520



42.3512, 35.4687, 110.7122

# Complementary

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



45.6315, 35.4687, 9.1437



33.2119, 37.7375, 89.5376

# 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.



32.1503, 35.4687, 120.9300



45.6315, 35.4687, 9.1437



19.3997, 35.4687, 66.3243

# Square

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



45.6315, 35.4687, 9.1437



20.5180, 35.4687, 15.3058



24.0730, 35.4687, 101.7946



51.6126, 35.4687, 78.2615



# Rectangle

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



45.6315, 35.4687, 9.1437



29.0316, 35.4687, 6.4785



24.0730, 35.4687, 101.7946



38.8701, 35.4687, 117.3674

# Sweetspot

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



45.6323, 35.4706, 9.1443



77.1865, 76.6775, 64.7040



46.2682, 25.5815, 43.7641



16.1151, 15.8688, 12.8858



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.



45.6323, 35.4706, 9.1443



47.4984, 33.4405, 5.0530



62.6210, 69.4480, 14.8072



16.2650, 16.7431, 16.5242



21.8463, 14.4906, 1.6455



1.9104, 1.3916, 0.1679



# Inverse Universe

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



33.2119, 37.7375, 89.5376



32.6767, 35.7604, 99.7879



21.4745, 14.2627, 85.6252



15.7136, 16.8613, 20.1480



14.6098, 15.4439, 47.3388



1.3110, 1.4760, 3.9700



# Previews

## White Background



This preview shows how the XYZ color 45.6315, 35.4687, 9.1437 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 45.6315, 35.4687, 9.1437 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 45.6315, 35.4687, 9.1437**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6315, 35.4687, 9.1437.



This preview shows how white text looks on a background with the XYZ color 45.6315, 35.4687,



# 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

45.6315, 35.4687, 9.1437

### Protanopia

32.5050, 35.5413, 11.2779

### Deuteranopia

36.2171, 35.4954, 8.8133



## Tritanopia

49.2539, 35.4247, 26.0715

# Trichromacy



## Original Color

45.6315, 35.4687, 9.1437

## Protanomaly

36.3376, 34.7989, 10.4319

## Deuteranomaly

39.2337, 35.1655, 8.8575

## Tritanomaly

47.7709, 35.3957, 18.2242

# Monochromacy



## Original Color

45.6315, 35.4687, 9.1437

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

34.4401, 32.8374, 22.9354

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6315, 35.4687, 9.1437 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(242, 131, 63)` looks like.

```
.text, #text, p{  
    color:rgb(242, 131, 63)  
}
```

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(242, 131, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 131, 63) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6315, 35.4687, 9.1437 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(242, 131, 63) }
```



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

```
.border{ border-color:rgb(242, 131, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 131, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 131, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 131, 63);  
box-shadow:4px 4px 4px 4px rgb(242, 131,  
63) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.6315, 35.4687, 9.1437 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 131, 63) }
```

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

```
.background{ background-color: rgb(242,  
131, 63) }
```

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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