

# Converting Colors

XYZ(45.1914, 27.0324, 9.8151)

Have a look what the booklet for  
XYZ(45.1914, 27.0324, 9.8151)  
contains.

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# Color

**XYZ(45.2334, 27.1036,  
9.8686)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4D4D
RGB	255, 77, 77
RGB Percent	100%, 30%, 30%
CMY	0.0000, 0.6980, 0.6980
CMYK	0.00, 0.70, 0.70, 0.00
HSL	0°, 100%, 65%
HSV	0°, 70%, 100%
XYZ	45.2334, 27.1036, 9.8686
YIQ	130.2220, 106.0880, 37.7360

# Conversions

## Conversions Part 2

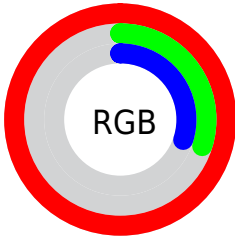
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 77, 77
Decimal	16731469
CIELab	59.07, 66.79, 39.59
CIELCh	59, 77.646, 30.658
Yxy	27.1036, 0.5502, 0.3297
Android (android.graphics.Color)	4294921549 (0xFFFF4D4D)
YUV	130.2220, -26.2384, 109.4303
Hunter-Lab	52.0611, 63.9831, 25.2039

# Details

The XYZ color **45.2334, 27.1036, 9.8686** is a dark color, and the websafe version is hex **FF6666**. The color can be described as dark washed red. A complement of this color would be **56.8663, 80.3095, 107.1111**, and the grayscale version is **21.3621, 22.4746, 24.4748**.

A 20% lighter version of the original color is **53.8101, 40.3747, 24.6957**, and **21.4959, 11.0514, 2.3667** is the 20% darker color. If you saturate the color by 10%, you get **43.0548, 23.9162, 5.5372**, and if you desaturate by 10%, it is **48.4646, 31.8326, 16.2908**.

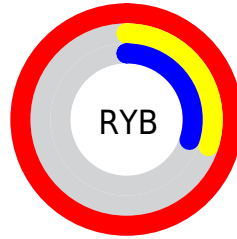
# Distribution



Red (100%)

Green (30%)

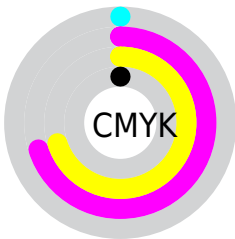
Blue (30%)



Red (100%)

Yellow (30%)

Blue (30%)

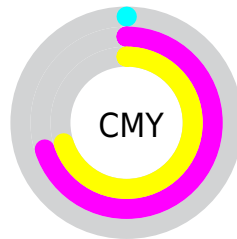


Cyan (0%)

Magenta (70%)

Yellow (70%)

Black (0%)



Cyan (0%)

Magenta (70%)


Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2334, 27.1036, 9.8686 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 45.2334, 27.1036, 9.8686 by changing the saturation by 10% instead.





 45.2334, 27.1036,  
9.8686


 45.2334, 27.1036,  
9.8686


358.4858,  
288.1584, 200.1823


 31.8434, 17.6510,  
5.2075


 82.3055, 55.0501,  
26.1520


 21.3969, 10.6997,  
2.3086


 106.7182, 74.3128,  
38.6113

 13.5285, 5.8653,  
0.7360


 135.5359, 97.6143,  
54.5071

 7.8730, 2.7634,  
0.0000

 169.1238,  
125.3391, 74.2580

 4.0649, 1.0095,  
0.0000

 207.8475,  
157.8715, 98.2824

 1.7389, 0.0000,  
0.0000

252.0721,

 0.4804, 0.0000,

195.5959, 126.9988

0.0000

302.1631,  
238.8967, 160.8260

■ 0.0000, 0.0000,  
0.0000

■ 45.2334, 27.1036,  
9.8686

■ 45.2334, 27.1036,  
9.8686

■ 43.0548, 23.9162,  
5.5372

■ 48.4646, 31.8326,  
16.2908

■ 41.7959, 22.0739,  
3.0351

■ 52.8563, 38.2591,  
25.0211


■ 41.2480, 21.2722,  
1.9463

■ 58.5053, 46.5252,  
36.2508

■ 41.2399, 21.2602,  
1.9300

■ 65.4976, 56.7569,  
50.1510

■ 73.9116, 69.0690,  
66.8779

 83.8199, 83.5676,  
86.5754

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



49.1101, 27.1036, 28.9051



45.2334, 27.1036, 9.8686



35.9588, 27.1036, 3.2041

# Triad

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



45.2334, 27.1036, 9.8686



12.7411, 27.1036, 10.3867



25.9748, 27.1036, 120.8458

# Complementary

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



45.2334, 27.1036, 9.8686



56.8663, 80.3095, 107.1111

# 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.



17.7005, 27.1036, 104.2401



45.2334, 27.1036, 9.8686



11.3111, 27.1036, 30.1257

# Square

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



45.2334, 27.1036, 9.8686



17.4147, 27.1036, 3.3450



12.8748, 27.1036, 65.7227



36.4218, 27.1036, 102.8310



# Rectangle

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



45.2334, 27.1036, 9.8686



28.8901, 27.1036, 2.0052



12.8748, 27.1036, 65.7227



22.8667, 27.1036, 119.0608

# Sweetspot

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



45.2340, 27.1052, 9.8690



72.8282, 67.4834, 64.7234



61.9435, 33.7876, 97.8639



15.0701, 13.6860, 12.8234



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.



45.2340, 27.1052, 9.8690



42.4233, 22.9918, 4.2815



56.2154, 49.0681, 13.5295



18.0096, 17.9873, 18.6670



21.5489, 11.1091, 1.0085



2.0982, 1.0817, 0.0982



# Inverse Universe

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



56.8663, 80.3095, 107.1111



54.7119, 79.1980, 107.0109



34.7467, 36.0701, 99.7379



18.5548, 20.4813, 23.2253



28.1141, 41.1377, 55.8932



2.7374, 4.0055, 5.4421



# Previews

## White Background



This preview shows how the XYZ color 45.2334, 27.1036, 9.8686 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 45.2334, 27.1036, 9.8686 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 45.2334, 27.1036, 9.8686**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2334, 27.1036, 9.8686.



This preview shows how white text looks on a background with the XYZ color 45.2334, 27.1036,



# 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

45.2334, 27.1036, 9.8686

### Protanopia

25.3484, 27.1556, 16.2175

### Deuteranopia

27.7218, 27.2437, 9.1076



## Tritanopia

45.3418, 27.1469, 10.4395

# Trichromacy



## Original Color

45.2334, 27.1036, 9.8686

## Protanomaly

29.8961, 24.8059, 13.3375

## Deuteranomaly

32.4449, 25.6955, 9.2109

## Tritanomaly

45.3052, 27.1323, 10.2463

# Monochromacy



## Original Color

45.2334, 27.1036, 9.8686

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

26.2329, 21.6305, 17.8314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2334, 27.1036, 9.8686 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, 77, 77)` looks like.

```
.text, #text, p{  
    color:rgb(255, 77, 77)  
}
```

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, 77, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 77, 77) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2334, 27.1036, 9.8686 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, 77, 77) }
```



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

```
.border{ border-color:rgb(255, 77, 77) }
```

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

Here you see how a box with a 4 pixel rgb(255, 77, 77) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 77, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 77, 77);  
box-shadow:4px 4px 4px 4px rgb(255, 77,  
77) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2334, 27.1036, 9.8686 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 77, 77) }
```

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

```
.background{ background-color: rgb(255, 77,  
77) }
```

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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