

# Converting Colors

XYZ(45.2675, 27.6746, 8.3296)

Have a look what the booklet for  
XYZ(45.2675, 27.6746, 8.3296)  
contains.

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# Color

**XYZ(45.2704, 27.6998,  
8.2708)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5243
RGB	255, 82, 67
RGB Percent	100%, 32%, 26%
CMY	0.0000, 0.6784, 0.7373
CMYK	0.00, 0.68, 0.74, 0.00
HSL	5°, 100%, 63%
HSV	5°, 74%, 100%
XYZ	45.2704, 27.6998, 8.2708
YIQ	132.0170, 107.9230, 32.0110

# Conversions

## Conversions Part 2

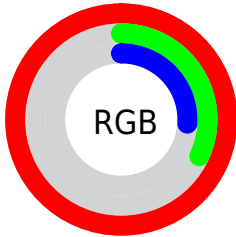
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 83, 67
Decimal	16732739
CIE <sub>Lab</sub>	59.62, 64.54, 45.67
CIE <sub>LCh</sub>	60, 79.068, 35.284
Yxy	27.6998, 0.5572, 0.3410
Android (android.graphics.Color)	4294922819 (0xFFFF5243)
YUV	132.0170, -32.0534, 107.8561
Hunter-Lab	52.6306, 61.4339, 27.5241

# Details

The XYZ color **45.2704, 27.6998, 8.2708** is a dark color, and the websafe version is hex **FF3333**. The color can be described as middle washed red. A complement of this color would be **51.5215, 70.7269, 105.5433**, and the grayscale version is **22.0245, 23.1714, 25.2337**.

A 20% lighter version of the original color is **53.7705, 41.2771, 21.6563**, and **21.3706, 11.0013, 1.7066** is the 20% darker color. If you saturate the color by 10%, you get **43.1896, 24.5051, 4.5976**, and if you desaturate by 10%, it is **48.2936, 32.2416, 13.9183**.

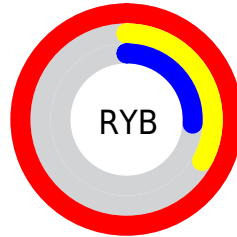
# Distribution



Red (100%)

Green (32%)

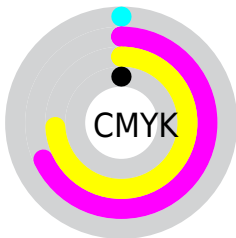
Blue (26%)



Red (100%)

Yellow (33%)

Blue (26%)

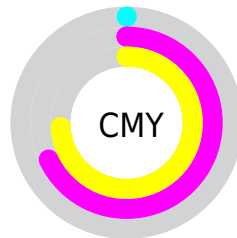


Cyan (0%)

Magenta (68%)

Yellow (74%)

Black (0%)



Cyan (0%)

Magenta (68%)


Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2704, 27.6998, 8.2708 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 45.2704, 27.6998, 8.2708 by changing the saturation by 10% instead.





 45.2704, 27.6998,  
8.2708


 45.2704, 27.6998,  
8.2708


358.6329,  
291.0297, 187.8541


 31.8726, 18.0995,  
4.1785


 82.3606, 56.0048,  
23.0425


 21.4193, 11.0214,  
1.7238


 106.7838, 75.4783,  
34.5590

 13.5451, 6.0813,  
0.3769


 135.6128, 99.0116,  
49.3872

 7.8845, 2.8946,  
0.0000

 169.2130,  
126.9892, 67.9458

 4.0723, 1.0769,  
0.0000

 207.9497,  
159.7953, 90.6532

 1.7431, 0.0000,  
0.0000

252.1884,

 0.4830, 0.0000,

197.8146, 117.9280

0.0000

302.2943,  
241.4312, 150.1888

■ 0.0000, 0.0000,  
0.0000

■ 45.2704, 27.6998,  
8.2708

■ 45.2704, 27.6998,  
8.2708

■ 43.1896, 24.5051,  
4.5976

■ 48.2936, 32.2416,  
13.9183

■ 41.9367, 22.5043,  
2.6237

■ 52.3521, 38.2524,  
21.7640

■ 41.4963, 21.7730,  
2.0155

■ 57.5295, 45.8458,  
32.0030

■ 63.9005, 55.1231,  
44.8084

■ 71.5334, 66.1768,  
60.3375

80.4910, 79.0931,  
78.7348

90.8323, 93.9522,  
100.1346

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



50.3868, 27.6998, 25.3842



45.2704, 27.6998, 8.2708



35.1795, 27.6998, 2.7317

# Triad

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



45.2704, 27.6998, 8.2708



12.4764, 27.6998, 12.5424



28.1320, 27.6998, 124.4417

# Complementary

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



45.2704, 27.6998, 8.2708



51.5215, 70.7269, 105.5433

# 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.



19.1014, 27.6998, 112.5122



45.2704, 27.6998, 8.2708



11.4863, 27.6998, 35.5010

# Square

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



45.2704, 27.6998, 8.2708



16.7386, 27.6998, 3.8828



13.5799, 27.6998, 74.2576



39.0187, 27.6998, 100.7901



# Rectangle

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



45.2704, 27.6998, 8.2708



27.9349, 27.6998, 1.8670



13.5799, 27.6998, 74.2576



24.7836, 27.6998, 124.5636

# Sweetspot

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



45.2710, 27.7014, 8.2712



72.9828, 68.2701, 63.3028



59.3441, 31.7131, 87.3653



15.1376, 13.9138, 12.5600



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.



45.2710, 27.7014, 8.2712



42.5603, 23.5133, 3.5642



57.2989, 51.7572, 12.2805



18.1259, 18.2199, 18.7058



21.7235, 11.4581, 1.0667



2.1534, 1.1921, 0.1166

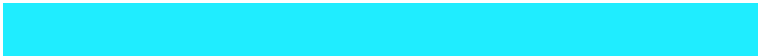


# Inverse Universe

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



51.5215, 70.7269, 105.5433



48.9114, 68.1217, 105.1787



31.0280, 29.7399, 98.7121



18.4235, 20.2186, 23.1815



24.9529, 34.8155, 54.8395



2.4649, 3.4604, 5.3513



# Previews

## White Background



This preview shows how the XYZ color 45.2704, 27.6998, 8.2708 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

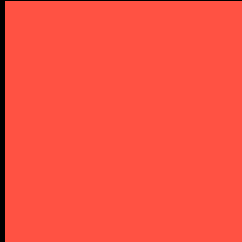
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.2704, 27.6998, 8.2708 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 45.2704, 27.6998, 8.2708**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2704, 27.6998, 8.2708.



This preview shows how white text looks on a background with the XYZ color 45.2704, 27.6998,



# 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

45.2704, 27.6998, 8.2708

### Protanopia

25.5982, 27.8027, 13.0341

### Deuteranopia

28.2499, 27.7606, 7.6108



## Tritanopia

45.7089, 27.6374, 11.3129

# Trichromacy



## Original Color

45.2704, 27.6998, 8.2708

## Protanomaly

30.2777, 25.5914, 10.9332

## Deuteranomaly

32.9090, 26.3142, 7.6196

## Tritanomaly

45.5576, 27.6949, 10.1522

# Monochromacy



## Original Color

45.2704, 27.6998, 8.2708

## Achromatopsia

21.9318, 23.0740, 25.1276

## Achromatomaly

26.8555, 22.4644, 17.1080

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2704, 27.6998, 8.2708 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, 82, 67)` looks like.

```
.text, #text, p{  
    color:rgb(255, 82, 67)  
}
```

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, 82, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 82, 67) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2704, 27.6998, 8.2708 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, 82, 67) }
```



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

```
.border{ border-color:rgb(255, 82, 67) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 82, 67)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 82, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 82, 67);  
box-shadow:4px 4px 4px 4px rgb(255, 82,  
67) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2704, 27.6998, 8.2708 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 82, 67) }
```

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

```
.background{ background-color: rgb(255, 82,  
67) }
```

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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